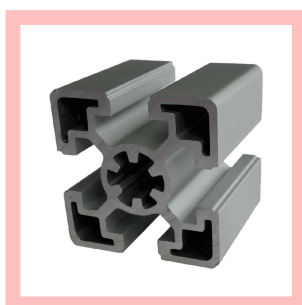
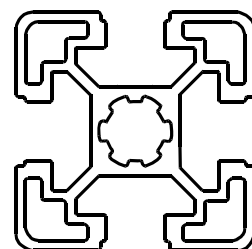


### Aluminiumprofilsystem

### Aluminium Profile System

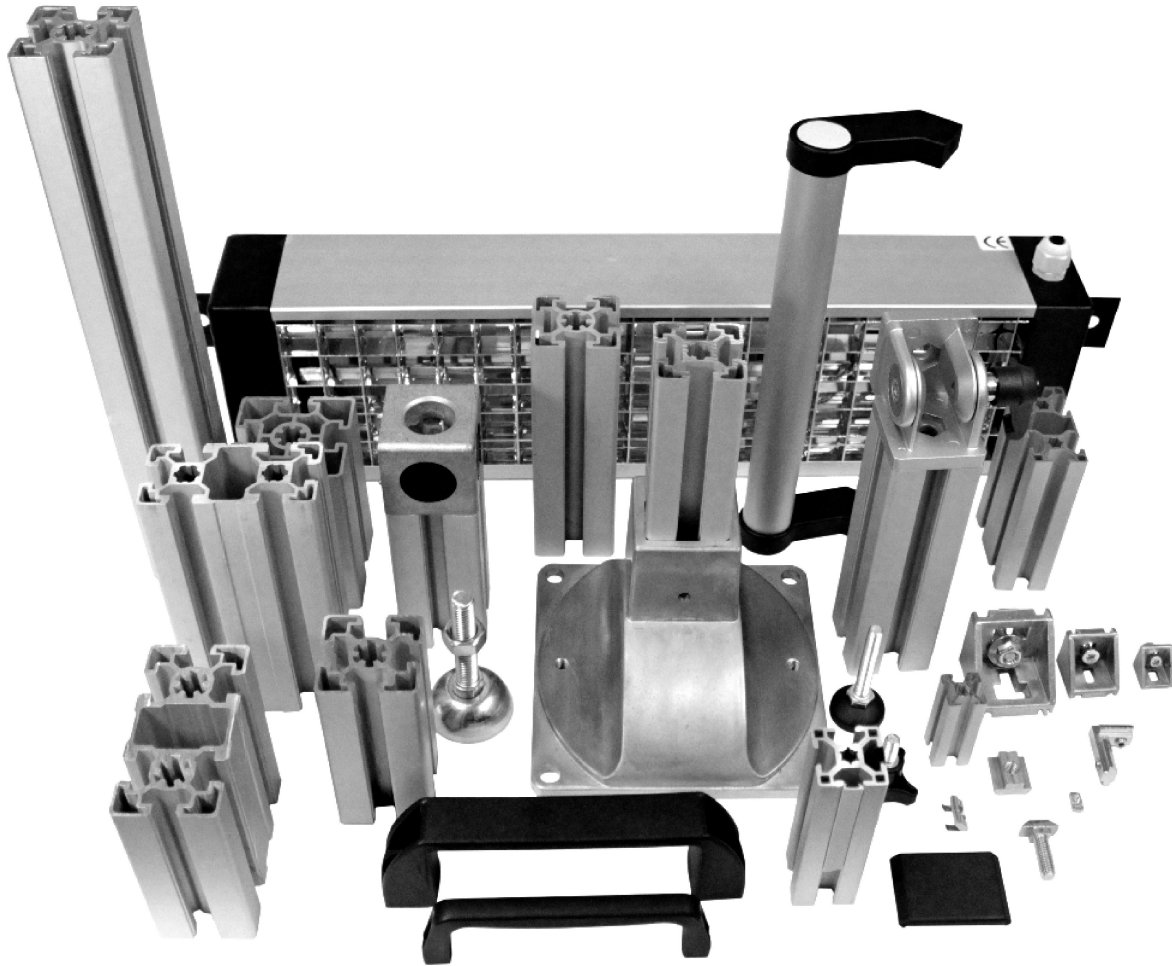


Ausgabe  
Edition

01.2024

Best.-Nr.  
Order codes

102 ... ..



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in Anspruch.

**GRIEGER Aluminium Profiles & Accessories**  
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and assembly services.

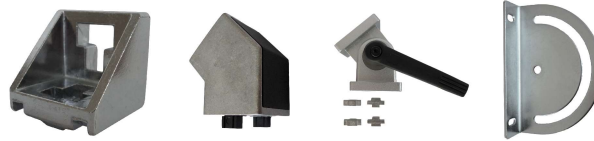
**Aluminium, Abdeckprofile, Abdeckkappen**  
**Aluminium, Cover Profiles, Cover Caps**



1



**Verbinder, Gelenke**  
**Connectors, Joints**



2



**Stellfüße, Lenkrollen, Fußplatten**  
**Feet, Wheels, Base Plates**



3



**Tür- und Flächenelemente**  
**Door and Panel Elements**



4



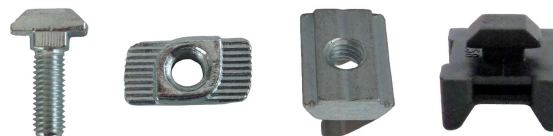
**Arbeitsleuchten**  
**Workstation Lamps**



5



**Befestigungsmaterial**  
**Fixing and Installation Material**



6



**Werkzeuge**  
**Tools**



7



# Aluminiumprofile Aluminium Profiles

1



## Allgemein

## General

Material  
Zugfestigkeit  $R_m$   
Eloxiert  
Länge

Material  
Tensile strength  $R_m$   
Natural anodized  
Length

Al 6063 T6  
 $\geq 220 \text{ N/mm}^2$   
10 - 15  $\mu\text{m}$   
5,6m

## Inhalt/Content



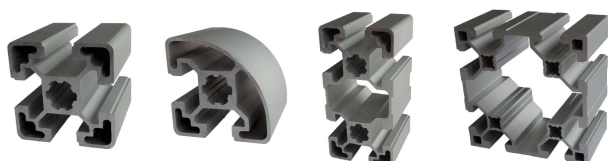
20x20

Seite/Page 5



30x30  
30x30R  
30x60

Seite/Page 5



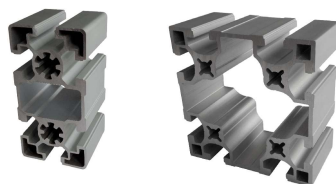
40x40L  
40x40LR  
40x80L  
80x80L

Seite/Page 6-7



45x45SL  
45x45L  
45x45  
45x45LR

Seite/Page 8



45x90L  
90x90L

Seite/Page 9



60x60L

Seite/Page 10



Abdeckprofile  
Cover Profiles

Seite/Page 10-11

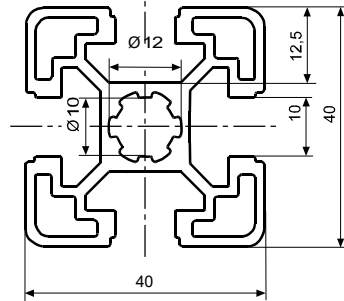


## Aluminiumprofile Aluminium Profiles

| Profil 20x20                         |                                            |                     | Profile 20x20  |    | 102 001 010           |
|--------------------------------------|--------------------------------------------|---------------------|----------------|-------------------------------------------------------------------------------------|-----------------------|
| Stückzahl/Box                        | Quantity/box                               | 100                 |                |                                                                                     |                       |
| Gewicht/m                            | Weight/m                                   | 0,45kg              |                |                                                                                     |                       |
| Gewicht/Box                          | Weight/box                                 | 255kg               |                |                                                                                     |                       |
| Trägheitsmoment                      | Moment of Inertia                          | 0,7cm <sup>4</sup>  |                |                                                                                     |                       |
| Widerstandsmoment                    | Section Modulus                            | 0,7cm <sup>3</sup>  |                |                                                                                     |                       |
| Profilfläche                         | Profile Surface                            | 166mm <sup>2</sup>  |                |                                                                                     |                       |
| Anwendung:<br>leichte Konstruktionen | Application:<br>light-weight constructions |                     |                |                                                                                     |                       |
| Stative                              | Tripods                                    |                     |                |                                                                                     |                       |
| Laboraufbauten                       | Laboratory Fixtures                        |                     |                |                                                                                     |                       |
| Abdeckkappe                          | Cover cap                                  | Quantity/box 50     |                |                                                                                     |                       |
|                                      |                                            |                     |                | Schwarz/black:102 015 015                                                           | Grau/grey:102 015 016 |
| Profil 30x30                         |                                            |                     | Profile 30x30  |    | 102 001 001           |
| Stückzahl/Box                        | Quantity/box                               | 49                  |                |                                                                                     |                       |
| Gewicht/m                            | Weight/m                                   | 0,9kg               |                |                                                                                     |                       |
| Gewicht/Box                          | Weight/box                                 | 250kg               |                |                                                                                     |                       |
| Trägheitsmoment                      | Moment of Inertia                          | 2,7cm <sup>4</sup>  |                |                                                                                     |                       |
| Widerstandsmoment                    | Section Modulus                            | 1,8cm <sup>3</sup>  |                |                                                                                     |                       |
| Profilfläche                         | Profile Surface                            | 320mm <sup>2</sup>  |                |                                                                                     |                       |
| Anwendung:<br>Maschinenverkleidung   | Application:<br>Machine cover              |                     |                |                                                                                     |                       |
| Anzeigetafel                         | Show board                                 |                     |                |                                                                                     |                       |
| Schutzgitter                         | Protection barrier                         |                     |                |                                                                                     |                       |
| Abdeckkappe                          | Cover cap                                  | Quantity/box 100    |                |                                                                                     |                       |
|                                      |                                            |                     |                | Schwarz/black:102 015 001                                                           | Grau/grey:102 015 011 |
| Profil 30x30R                        |                                            |                     | Profile 30x30R |  | 102 001 012           |
| Stückzahl/Box                        | Quantity/box                               | 49                  |                |                                                                                     |                       |
| Gewicht/m                            | Weight/m                                   | 0,8kg               |                |                                                                                     |                       |
| Gewicht/Box                          | Weight/box                                 | 223kg               |                |                                                                                     |                       |
| Trägheitsmoment                      | Moment of Inertia                          | 2,4cm <sup>4</sup>  |                |                                                                                     |                       |
| Widerstandsmoment                    | Section Modulus                            | 1,5cm <sup>3</sup>  |                |                                                                                     |                       |
| Profilfläche                         | Profile Surface                            | 300mm <sup>2</sup>  |                |                                                                                     |                       |
| Anwendung:<br>Maschinenverkleidung   | Application:<br>Machine cover              |                     |                |                                                                                     |                       |
| Anzeigetafel                         | Show board                                 |                     |                |                                                                                     |                       |
| Design Line                          | Design line                                |                     |                |                                                                                     |                       |
| Abdeckkappe                          | Cover cap                                  | Quantity/box 50     |                |                                                                                     |                       |
|                                      |                                            |                     |                | Schwarz/black:102 015 006                                                           | Grau/grey:102 015 017 |
| Profil 30x60                         |                                            |                     | Profile 30x60  |  | 102 001 002           |
| Stückzahl/Box                        | Quantity/box                               | 24                  |                |                                                                                     |                       |
| Gewicht/m                            | Weight/m                                   | 1,5kg               |                |                                                                                     |                       |
| Gewicht/Box                          | Weight/box                                 | 205kg               |                |                                                                                     |                       |
| Trägheitsmoment (I <sub>y</sub> )    | Moment of Inertia (I <sub>y</sub> )        | 6,0cm <sup>4</sup>  |                |                                                                                     |                       |
| Trägheitsmoment (I <sub>x</sub> )    | Moment of Inertia (I <sub>x</sub> )        | 18,8cm <sup>4</sup> |                |                                                                                     |                       |
| Widerstandsmoment (W <sub>y</sub> )  | Section Modulus (W <sub>y</sub> )          | 4,0cm <sup>3</sup>  |                |                                                                                     |                       |
| Widerstandsmoment (W <sub>x</sub> )  | Section Modulus (W <sub>x</sub> )          | 6,2cm <sup>3</sup>  |                |                                                                                     |                       |
| Profilfläche                         | Profile Surface                            | 550mm <sup>2</sup>  |                |                                                                                     |                       |
| Anwendung:<br>Montagelinie           | Application:<br>Assembly line              |                     |                |                                                                                     |                       |
| Förderband                           | Flat belt conveyor                         |                     |                |                                                                                     |                       |
| Maschinenverkleidung                 | Machine cover                              |                     |                |                                                                                     |                       |
| Abdeckkappe                          | Cover cap                                  | Quantity/box 50     |                |                                                                                     |                       |
|                                      |                                            |                     |                | Schwarz/black:102 015 005                                                           | Grau/grey:102 015 018 |

## Aluminiumprofile Aluminium Profiles

102 001 003



Abdeckkappe

Cover cap

Quantity/box 100

**Profil 40x40L**

Stückzahl/Box  
Gewicht/m  
Gewicht/Box  
Trägheitsmoment  
Widerstandsmoment  
Profilfläche

**Profile 40x40L**

Quantity/box  
Weight/m  
Weight/box  
Moment of Inertia  
Section Modulus  
Profile Surface



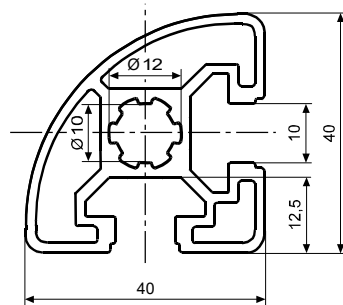
Anwendung:  
Montagelinie  
Werkbank  
Tisch  
Schutzgitter  
Maschinenverkleidung

Application:  
Assembly line  
Work bench  
Table  
Protection barrier  
Machine cover

Schwarz/black:102 015 002

Grau/grey:102 015 012

102 001 013



Abdeckkappe

Cover cap

Quantity/box 50

**Profil 40x40LR**

Stückzahl/Box  
Gewicht/m  
Gewicht/Box  
Trägheitsmoment  
Widerstandsmoment  
Profilfläche

**Profile 40x40LR**

Quantity/box  
Weight/m  
Weight/box  
Moment of Inertia  
Section Modulus  
Profile Surface



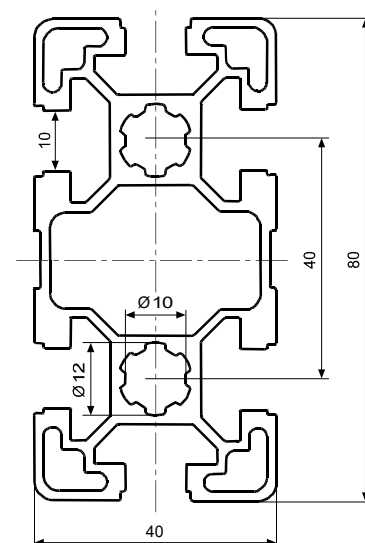
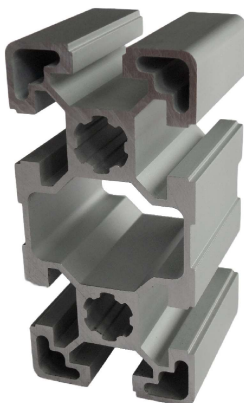
Anwendung:  
Werkbank  
Tisch  
Maschinenverkleidung  
Design Line

Application:  
Work bench  
Table  
Machine cover  
Design line

Schwarz/black:102 015 007

Grau/grey:102 015 019

102 001 007



Abdeckkappe

Cover cap

Quantity/box 50

**Profil 40x80L**

Stückzahl/Box  
Gewicht/m  
Gewicht/Box  
Trägheitsmoment ( $I_y$ )  
Trägheitsmoment ( $I_x$ )  
Widerstandsmoment ( $W_y$ )  
Widerstandsmoment ( $W_x$ )  
Profilfläche

**Profile 40x80L**

Quantity/box  
Weight/m  
Weight/box  
Moment of Inertia ( $I_y$ )  
Moment of Inertia ( $I_x$ )  
Section Modulus ( $W_y$ )  
Section Modulus ( $W_x$ )  
Profile Surface



Anwendung:  
Biegesteife Maschinen-  
rahmen, Werkbänke

Application:  
Rigid machine frame  
Work bench

Schwarz/black:102 015 020

Grau/grey:102 015 021

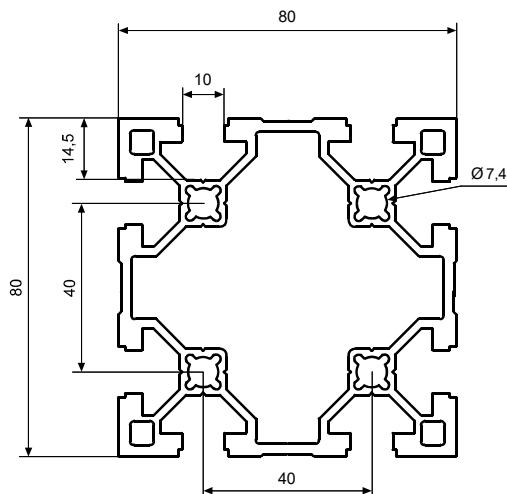
## Aluminiumprofile Aluminium Profiles

Profil 80x80L

Profile 80x80L



102 001 015



1

|                             |                             |                     |
|-----------------------------|-----------------------------|---------------------|
| Stückzahl/Box               | Quantity/box                | 9                   |
| Gewicht/m                   | Weight/m                    | 3,95kg              |
| Gewicht/Box                 | Weight/box                  | 203kg               |
| Trägheitsmoment ( $I_y$ )   | Moment of Inertia ( $I_y$ ) | 117cm <sup>4</sup>  |
| Trägheitsmoment ( $I_x$ )   | Moment of Inertia ( $I_x$ ) | 117cm <sup>4</sup>  |
| Widerstandsmoment ( $W_y$ ) | Section Modulus ( $W_y$ )   | 29cm <sup>3</sup>   |
| Widerstandsmoment ( $W_x$ ) | Section Modulus ( $W_x$ )   | 29cm <sup>3</sup>   |
| Profilfläche                | Profile Surface             | 1460mm <sup>2</sup> |

Anwendung:  
Biegesteife Maschinen-  
rahmen, Schwere  
Werkbänke  
Roboterzellen

Application:  
Rigid machine frame  
Heavy duty work bench  
Robot cell

Abdeckkappe

Cover cap

Quantity/box 20

Schwarz/black:102 015 009

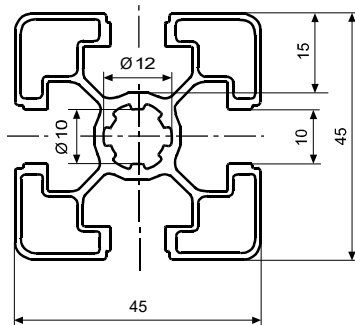
Grau/grey:102 015 022

## Aluminiumprofile Aluminium Profiles

102 001 009

Profil 45x45SL

Profile 45x45SL



Abdeckkappe

Cover cap

Quantity/box 100

Stückzahl/Box  
Gewicht/m  
Gewicht/Box  
Trägheitsmoment  
Widerstandsmoment  
Profilfläche  
Anwendung:  
Schutzgitter  
Leichtbau  
Tisch  
Messestandbau

Quantity/box  
Weight/m  
Weight/box  
Moment of Inertia  
Section Modulus  
Profile Surface  
Application:  
Protection barrier  
Lightweight design  
Table  
Exhibition stand construction

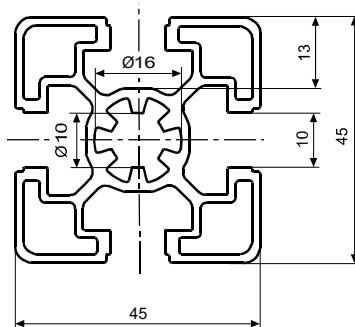
Schwarz/black:102 015 003

Grau/grey:102 015 013

102 001 004

Profil 45x45L

Profile 45x45L



Abdeckkappe

Cover cap

Quantity/box 100

Stückzahl/Box  
Gewicht/m  
Gewicht/Box  
Trägheitsmoment  
Widerstandsmoment  
Profilfläche

Quantity/box  
Weight/m  
Weight/box  
Moment of Inertia  
Section Modulus  
Profile Surface

Anwendung:  
Montagelinie  
Werkbank  
Tisch  
Schutzgitter  
Maschinenverkleidung

Application:  
Assembly line  
Work bench  
Table  
Protection barrier  
Machine cover

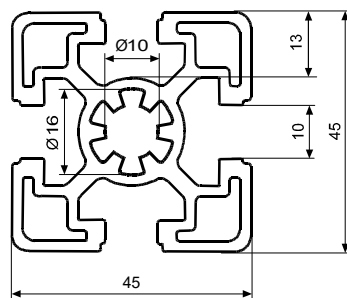
Schwarz/black:102 015 003

Grau/grey:102 015 013

102 001 008

Profil 45x45

Profile 45x45



Abdeckkappe

Cover cap

Quantity/box 100

Stückzahl/Box  
Gewicht/m  
Gewicht/Box  
Trägheitsmoment  
Widerstandsmoment  
Profilfläche

Quantity/box  
Weight/m  
Weight/box  
Moment of Inertia  
Section Modulus  
Profile Surface

Anwendung:  
Montagelinie  
Werkbank  
Tisch  
Schutzgitter  
Maschinenverkleidung

Application:  
Assembly line  
Work bench  
Table  
Protection barrier  
Machine cover

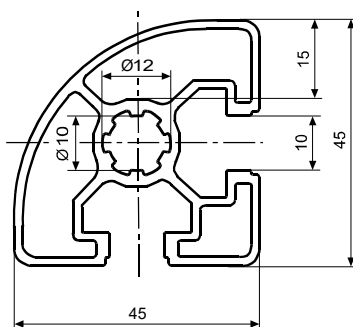
Schwarz/black:102 015 003

Grau/grey:102 015 013

102 001 014

Profil 45x45LR

Profile 45x45LR



Abdeckkappe

Cover cap

Quantity/box 100

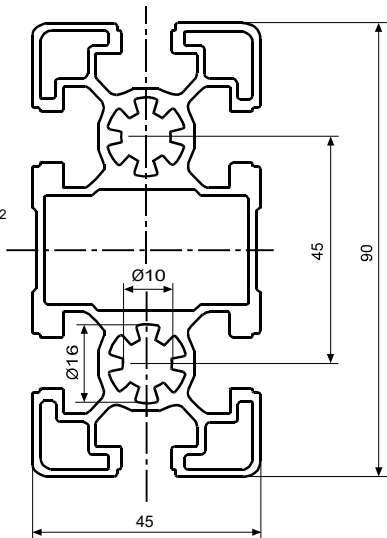
Stückzahl/Box  
Gewicht/m  
Gewicht/Box  
Trägheitsmoment  
Widerstandsmoment  
Profilfläche  
Anwendung:  
Schutzgitter  
Leichtbau  
Tisch  
Messestandbau  
Design Line

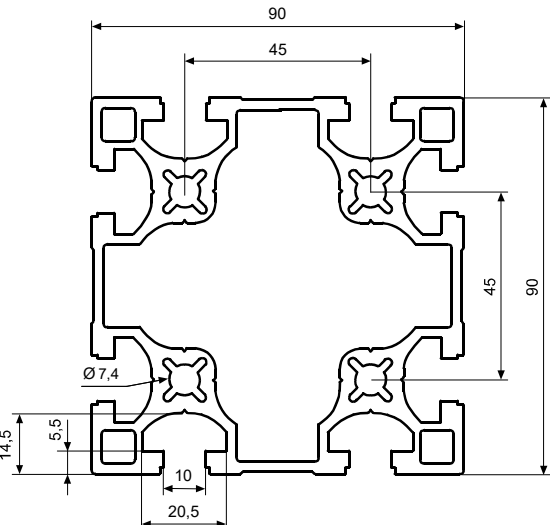
Quantity/box  
Weight/m  
Weight/box  
Moment of Inertia  
Section Modulus  
Profile Surface  
Application:  
Protection barrier  
Lightweight design  
Table  
Exhibition stand construction  
Design line

Schwarz/black:102 015 008

Grau/grey:102 015 023

## Aluminiumprofile Aluminium Profiles

| <b>Profil 45x90L</b>                   |                                |  |                                                                                    |                                                                                     |
|----------------------------------------|--------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Stückzahl/Box                          | Quantity/box                   | 12                                                                                |  |  |
| Gewicht/m                              | Weight/m                       | 3,2kg                                                                             |                                                                                    |                                                                                     |
| Gewicht/Box                            | Weight/box                     | 220kg                                                                             |                                                                                    |                                                                                     |
| Trägheitsmoment ( $I_y$ )              | Moment of Inertia ( $I_y$ )    | 23,7cm <sup>4</sup>                                                               |                                                                                    |                                                                                     |
| Trägheitsmoment ( $I_x$ )              | Moment of Inertia ( $I_x$ )    | 84,2cm <sup>4</sup>                                                               |                                                                                    |                                                                                     |
| Widerstandsmoment ( $W_y$ )            | Section Modulus ( $W_y$ )      | 10,5cm <sup>3</sup>                                                               |                                                                                    |                                                                                     |
| Widerstandsmoment ( $W_x$ )            | Section Modulus ( $W_x$ )      | 18,7cm <sup>3</sup>                                                               |                                                                                    |                                                                                     |
| Profilfläche                           | Profile Surface                | 1170mm <sup>2</sup>                                                               |                                                                                    |                                                                                     |
| Anwendung:                             | Application:                   |                                                                                   |                                                                                    |                                                                                     |
| Biegesteife Maschinenrahmen, Werkbänke | Rigid machine frame Work bench |                                                                                   |                                                                                    |                                                                                     |
| Roboterzellen                          | Robot cell                     |                                                                                   |                                                                                    |                                                                                     |
| Abdeckkappe                            | Cover cap                      | Quantity/box 100                                                                  | Schwarz/black:102 015 024                                                          | Grau/grey:102 015 025                                                               |

|                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Profil 90x90L</b>                                                                                                                                                              | <b>Profile 90x90L</b>                                                                                                                                                             |  <b>102 001 016</b>                       |
|                                                                                                |                                                                                               |                                                                                                                              |
| <b>Stückzahl/Box</b><br><b>Gewicht/m</b><br><b>Gewicht/Box</b><br><b>Trägheitsmoment (<math>I_y</math>)</b><br><b>Widerstandsmoment (<math>W_y</math>)</b><br><b>Profilfläche</b> | <b>Quantity/box</b><br><b>Weight/m</b><br><b>Weight/box</b><br><b>Moment of Inertia (<math>I_y</math>)</b><br><b>Section Modulus (<math>W_y</math>)</b><br><b>Profile Surface</b> | <b>9</b><br><b>5,6kg</b><br><b>287kg</b><br><b>195cm<sup>4</sup></b><br><b>43cm<sup>3</sup></b><br><b>2090mm<sup>2</sup></b> |
| <b>Anwendung:</b><br><b>Biegesteife Maschinen-</b><br><b>rahmen, Schwere</b><br><b>Werkbänke</b><br><b>Roboterzellen</b><br><b>Abdeckkappe</b>                                    | <b>Application:</b><br><b>Rigid machine frame</b><br><b>Heavy duty work bench</b><br><b>Robot cell</b><br><b>Cover cap</b>                                                        | <b>Quantity/box 20</b><br><b>Schwarz/black:102 015 010</b><br><b>Grau/grey:102 015 026</b>                                   |



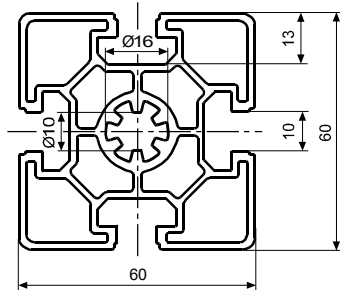
## Aluminiumprofile Aluminium Profiles

102 001 006

**Profil 60x60L****Profile 60x60L**

|                   |                   |                     |
|-------------------|-------------------|---------------------|
| Stückzahl/Box     | Quantity/box      | 16                  |
| Gewicht/m         | Weight/m          | 2,7kg               |
| Gewicht/Box       | Weight/box        | 246kg               |
| Trägheitsmoment   | Moment of Inertia | 38,7cm <sup>4</sup> |
| Widerstandsmoment | Section Modulus   | 12,9cm <sup>3</sup> |
| Profilfläche      | Profile Surface   | 1010mm <sup>2</sup> |

|                                             |                                   |
|---------------------------------------------|-----------------------------------|
| Anwendung:                                  | Application:                      |
| Biegesteife Maschinen-<br>rahmen, Werkbänke | Rigid machine frame<br>Work bench |
| Roboterzellen                               | Robot cell                        |



Abdeckkappe

Cover cap

Quantity/box 100

Schwarz/black:102 015 004

Grau/grey:102 015 014

## Abdeckprofile Cover Profiles

**Allgemein****General****Material**

PVC

**Material**

PVC

**Anwendung**

Zum Abdecken der Nuten To cover the slots of profiles

**Application**

To cover the slots of profiles

**Vorteile**

Schutz vor Staub und Schmutz

**Advantages**

Protection from dirt and dust

Formschöne Abdeckung von Kabeln

Proper coverage of cables

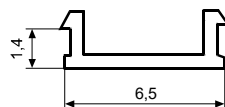
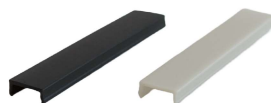
Verbesserte Optik der Profilstruktur

Enhances the appearance of the profile structure

102 016 ...

**Abdeckprofil 6****Cover profile 6**

|               |              |       |
|---------------|--------------|-------|
| Stückzahl/Box | Quantity/box | 100   |
| Gewicht/Stk.  | Weight/pc    | 22g   |
| Gewicht/Box   | Weight/box   | 2,2kg |
| Länge         | Length       | 2m    |



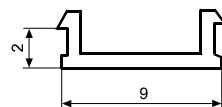
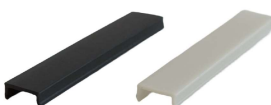
Schwarz/black: 006

Lichtgrau/Light grey: 007

102 016 ...

**Abdeckprofil 8****Cover profile 8**

|               |              |     |
|---------------|--------------|-----|
| Stückzahl/Box | Quantity/box | 100 |
| Gewicht/Stk.  | Weight/pc    | 50g |
| Gewicht/Box   | Weight/box   | 5kg |
| Länge         | Length       | 2m  |

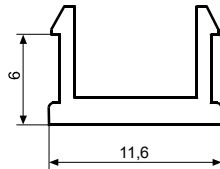


Schwarz/black: 001

Lichtgrau/Light grey : 004

## Abdeckprofile Cover Profiles

102 016 ...



### Abdeckprofil 10

Stückzahl/Box  
Gewicht/Stk.  
Gewicht/Box  
Länge

### Cover profile 10

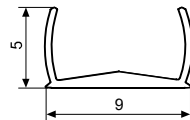
Quantity/box  
Weight/pc  
Weight/box  
Length



100  
110g  
11kg  
2m

Schwarz/black: 002  
Lichtgrau/Light grey: 003

102 016 008



### Alu-Abdeckprofil 8

Stückzahl/Box  
Gewicht/Stk.  
Gewicht/Box  
Länge

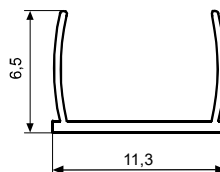
### Alu Cover profile 8

Quantity/box  
Weight/pc  
Weight/box  
Length



50  
86g  
4,3kg  
2m

102 016 009



### Alu-Abdeckprofil 10

Stückzahl/Box  
Gewicht/Stk.  
Gewicht/Box  
Länge

### Alu Cover profile 10

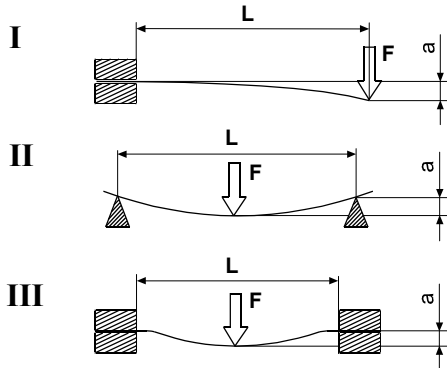
Quantity/box  
Weight/pc  
Weight/box  
Length



50  
113g  
5,65kg  
2m

## Durchbiegung der Profile Profile Deflection

1



$$a_I = \frac{F \times L^3}{3 E \times I \times 10^4}$$

Profildurchbiegung a durch Kraft F für die statischen Belastungsfälle I, II, III

Profile deflection a from force F for static stress cases I, II, III

$$a_{II} = \frac{F \times L^3}{48 E \times I \times 10^4}$$

$$a_{III} = \frac{F \times L^3}{192 E \times I \times 10^4}$$

$$a_I = \frac{g \times m_L \times L^4}{8 E \times I \times 10^4}$$

Profildurchbiegung a durch das Eigengewicht des Profils

Profile deflection a from the profile's own weight

$$a_{II} = \frac{5 \times g \times m_L \times L^4}{384 E \times I \times 10^4}$$

$$a_{III} = \frac{g \times m_L \times L^4}{384 E \times I \times 10^4}$$

Legende:

E = 70,000 N/mm<sup>2</sup> (Elastizitätsmodul)

I = Trägheitsmoment (cm<sup>4</sup>)

m<sub>L</sub> = Profilmasse (kg/mm)

L = Freie Länge (mm)

a = Durchbiegung (mm)

F = Last (N)

W = Widerstandsmoment (cm<sup>3</sup>)

Legend:

E = 70,000 N/mm<sup>2</sup> (Modulus of Elasticity)

I = Moment of Inertia (cm<sup>4</sup>)

m<sub>L</sub> = Mass of Profile (kg/mm)

L = Unsupported Length (mm)

a = Deflection of profile (mm)

F = Load (N)

W = Section Modulus (cm<sup>3</sup>)

**Winkel  
Brackets**



**Seite/Page 14-17**

**Würfelverbinder, Eckwinkel  
Cubic Connectors, Corner Brackets**



**Seite/Page 18-21**

**T-Verbinder, Fundamentwinkel  
T-Connector, Floor Bracket**



**Seite/Page 22**

**Multiverbinder, Zentralschrauben  
Multi connector, Central Bolts**



**Seite/Page 23**

**Schnellspannverbinder, Innenwinkel  
Quick Connectors, Inner Brackets**



**Seite/Page 24-25**

**Inline-Verbinder, Bolzenverbinder  
Inline-, Bolt Connectors**



**Seite/Page 26-27**

**45° Verbinder, Profilverbinder  
45° Connectors, Profile Connectors**



**Seite/Page 28-29**

**Schutzzaunwinkel, Schutzzaunfüße  
Fence Bracket, -Mount Bases**



**Seite/Page 30-31**

**Drehwinkel, Gelenke  
Swivel Brackets, Joints**



**Seite/Page 32-33**

**Schwenkwinkel, Klemmhebel  
Pivoting Bracket, Clamp Lever**



**Seite/Page 34**

Winkel  
Brackets

## Allgemein

## General

## Material

Aluminiumdruckguss  
blanke Oberfläche

## Material

Die cast aluminium  
plain surface

## Anwendung

Zur rechtwinkligen  
Verbindung von Profilen

## Application

To connect profiles and  
panels rectangularly

## Vorteile

Kein Bohren nötig,  
verstellbar

## Advantages

No tapping, adjustable

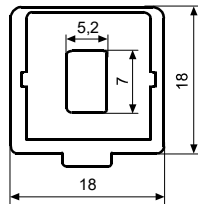
2

102 002 702

5 Nm

## Winkel 20x20

## Bracket 20x20



6 Nm



700 N



## Stückzahl/Box

Quantity/box

Weight/Stk.

Weight/box

Max. Belastung

Biegemoment

## Quantity/box

Weight/pc

Weight/box

Max. load

Bending moment

100

10g

1,0kg

700N

6Nm

Zubehör nicht inkl.:

2 x Hammermutter

2 x Schraube

1 x Abdeckkappe

Accessories not incl.:

2 x T-Nut Slot 6 M4

2 x Screw M4x8

1 x Cover cap

102 010 018

102 009 005

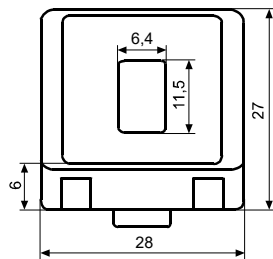
102 032 700

102 002 001

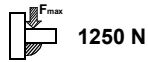
10 Nm

## Winkel 30x30

## Bracket 30x30



25 Nm



1250 N



## Stückzahl/Box

Quantity/box

Weight/Stk.

Weight/box

Max. Belastung

Biegemoment

## Quantity/box

Weight/pc

Weight/box

Max. load

Bending moment

100

20g

2,0kg

1250N

25Nm

Zubehör nicht inkl.:

2 x Hammermutter

2 x Schraube

1 x Abdeckkappe

Accessories not incl.:

2 x T-Nut Slot 8 M6

2 x Screw M6x12

1 x Cover cap

102 010 006

102 009 002

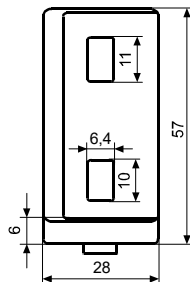
102 032 001

102 002 002

10 Nm

## Winkel 30x60

## Bracket 30x60



100 Nm



2500 N



## Stückzahl/Box

Quantity/box

Weight/Stk.

Weight/box

Max. Belastung

Biegemoment

## Quantity/box

Weight/pc

Weight/box

Max. load

Bending moment

10

58g

0,58kg

2500N

100Nm

Zubehör nicht inkl.:

4 x Hammermutter

4 x Schraube

1 x Abdeckkappe

Accessories not incl.:

4 x T-Nut Slot 8 M6

4 x Screw M6x12

1 x Cover cap

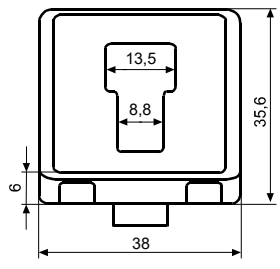
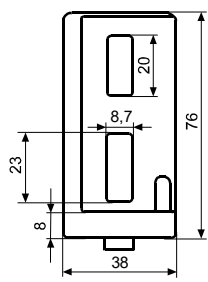
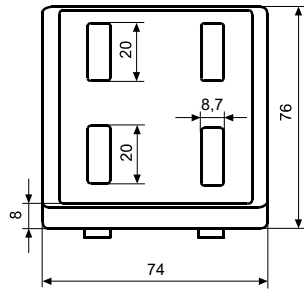
102 010 006

102 009 002

102 032 710



## Winkel Brackets

| Winkel 40x40         |                  | Bracket 40x40          |     |  25 Nm      | 102 002 003                                                                                   |
|----------------------|------------------|------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Stückzahl/Box        | Quantity/box     | 100                    |                                                                                      |                                                                                              |                                                                                               |
| Gewicht/Stk.         | Weight/pc        | 33g                    |                                                                                      |                                                                                              |                                                                                               |
| Gewicht/Box          | Weight/box       | 3,3kg                  |                                                                                      |                                                                                              |                                                                                               |
| Max. Belastung       | Max. load        | 3000N                  |                                                                                      |                                                                                              |                                                                                               |
| Biegemoment          | Bending moment   | 55Nm                   |                                                                                      |                                                                                              |                                                                                               |
| Zubehör nicht inkl.: |                  | Accessories not incl.: |                                                                                      |                                                                                              |                                                                                               |
| 2 x Hammerschraube   | 2 x T-Bolt M8x20 | 102 010 002            |                                                                                      |                                                                                              |                                                                                               |
| 2 x Flanshmutter     | 2 x Flange nut   | 102 010 003            |                                                                                      |                                                                                              |                                                                                               |
| 1 x Abdeckkappe      | 1 x Cover cap    | 102 032 002            |                                                                                      |                                                                                              |                                                                                               |
|                      |                  |                        |    |           |                                                                                               |
|                      |                  |                        |     |  55 Nm    |  3000 N    |
|                      |                  |                        |                                                                                      |                                                                                              |                                                                                               |
| Winkel 40x80         |                  | Bracket 40x80          |     |  25 Nm      | 102 002 004                                                                                   |
| Stückzahl/Box        | Quantity/Box     | 10                     |                                                                                      |                                                                                              |                                                                                               |
| Gewicht/Stk.         | Weight/pc        | 122g                   |                                                                                      |                                                                                              |                                                                                               |
| Gewicht/Box          | Weight/Box       | 1,22kg                 |                                                                                      |                                                                                              |                                                                                               |
| Max. Belastung       | Max. load        | 6000N                  |                                                                                      |                                                                                              |                                                                                               |
| Biegemoment          | Bending moment   | 180Nm                  |                                                                                      |                                                                                              |                                                                                               |
| Zubehör nicht inkl.: |                  | Accessories not incl.: |                                                                                      |                                                                                              |                                                                                               |
| 4 x Hammerschraube   | 4 x T-Bolt M8x25 | 102 010 001            |                                                                                      |                                                                                              |                                                                                               |
| 4 x Flanshmutter     | 4 x Flange nut   | 102 010 003            |                                                                                      |                                                                                              |                                                                                               |
| 1 x Abdeckkappe      | 1 x Cover cap    | 102 032 704            |                                                                                      |                                                                                              |                                                                                               |
|                      |                  |                        |   |          |                                                                                               |
|                      |                  |                        |   |  180 Nm |  6000 N  |
|                      |                  |                        |                                                                                      |                                                                                              |                                                                                               |
| Winkel 80x80         |                  | Bracket 80x80          |   |  25 Nm    | 102 002 705                                                                                   |
| Stückzahl/Box        | Quantity/box     | 10                     |                                                                                      |                                                                                              |                                                                                               |
| Gewicht/Stk.         | Weight/pc        | 225g                   |                                                                                      |                                                                                              |                                                                                               |
| Gewicht/Box          | Weight/box       | 2,25kg                 |                                                                                      |                                                                                              |                                                                                               |
| Max. Belastung       | Max. load        | 12000N                 |                                                                                      |                                                                                              |                                                                                               |
| Biegemoment          | Bending moment   | 370Nm                  |                                                                                      |                                                                                              |                                                                                               |
| Zubehör nicht inkl.: |                  | Accessories not incl.: |                                                                                      |                                                                                              |                                                                                               |
| 8 x Hammerschraube   | 8 x T-Bolt M8x25 | 102 010 001            |                                                                                      |                                                                                              |                                                                                               |
| 8 x Flanshmutter     | 8 x Flange nut   | 102 010 003            |                                                                                      |                                                                                              |                                                                                               |
| 1 x Abdeckkappe      | 1 x Cover cap    | 102 032 707            |                                                                                      |                                                                                              |                                                                                               |
|                      |                  |                        |  |         |                                                                                               |
|                      |                  |                        |   |  370 Nm |  12000 N |
|                      |                  |                        |                                                                                      |                                                                                              |                                                                                               |

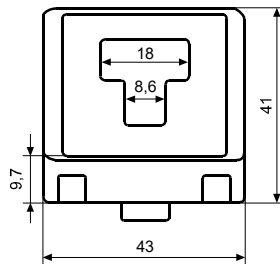
Winkel  
Brackets

102 002 005

25 Nm

Winkel 45x45

Bracket 45x45



Stückzahl/Box  
Gewicht/Stk.  
Gewicht/Box  
Max. Belastung  
Biegemoment

Quantity/box  
Weight/pc  
Weight/box  
Max. load  
Bending moment

100  
57g  
5,7kg  
3000N  
60Nm

Zubehör nicht inkl.:  
2 x Hammerschraube  
2 x Flanschmutter  
1 x Abdeckkappe

Accessories not incl.:  
2 x T-Bolt M8x25  
2 x Flange nut  
1 x Cover cap

**102 010 001**  
**102 010 003**  
**102 032 003**

2

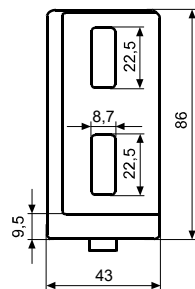


102 002 006

25 Nm

Winkel 45x90

Bracket 45x90



Stückzahl/Box  
Gewicht/Stk.  
Gewicht/Box  
Max. Belastung  
Biegemoment

Quantity/box  
Weight/pc  
Weight/box  
Max. load  
Bending moment

10  
162g  
1,62kg  
6000N  
180Nm

Zubehör nicht inkl.:  
4 x Hammerschraube  
4 x Flanschmutter  
1 x Abdeckkappe

Accessories not incl.:  
1 x T-Bolt M8x20  
4 x Flange nut  
1 x Cover cap

**102 010 001**  
**102 010 003**  
**102 032 709**

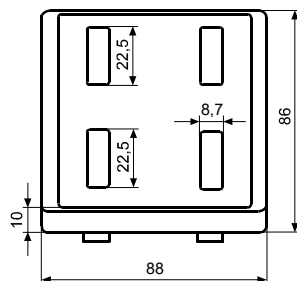


102 002 008

25 Nm

Winkel 90x90

Bracket 90x90



Stückzahl/Box  
Gewicht/Stk.  
Gewicht/Box  
Max. Belastung  
Biegemoment

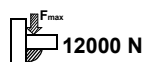
Quantity/box  
Weight/pc  
Weight/box  
Max. load  
Bending moment

10  
333g  
3,33kg  
12000N  
370Nm

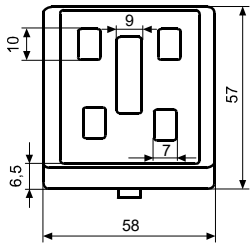
Zubehör nicht inkl.:  
8 x Hammerschraube  
8 x Flanschmutter  
1 x Abdeckkappe

Accessories not incl.:  
8 x T-Bolt M8x25  
8 x Flange nut  
1 x Cover cap

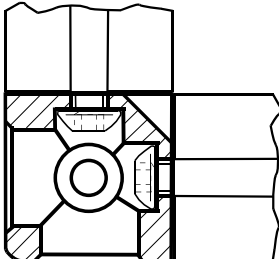
**102 010 001**  
**102 010 003**  
**102 032 706**



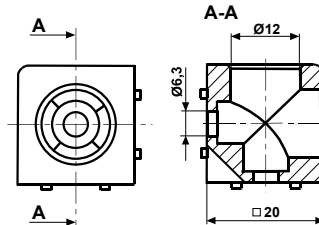
## Winkel Brackets

| Winkel 60x60                                                                                                                                                                                                                                                | Bracket 60x60                                                                                                                                                                                        |   | 102 002 007                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stückzahl/Box                                                                                                                                                                                                                                               | Quantity/box                                                                                                                                                                                         | 10                                                                                                                                                                  |                                                                                                                                                                                           |
| Gewicht/Stk.                                                                                                                                                                                                                                                | Weight/pc                                                                                                                                                                                            | 105g                                                                                                                                                                |                                                                                                                                                                                           |
| Gewicht/Box                                                                                                                                                                                                                                                 | Weight/box                                                                                                                                                                                           | 1,05kg                                                                                                                                                              |                                                                                                                                                                                           |
| Max. Belastung                                                                                                                                                                                                                                              | Max. load                                                                                                                                                                                            | 3000N                                                                                                                                                               |                                                                                                                                                                                           |
| Biegemoment                                                                                                                                                                                                                                                 | Bending moment                                                                                                                                                                                       | 125Nm                                                                                                                                                               |                                                                                                                                                                                           |
| Zubehör nicht inkl.:                                                                                                                                                                                                                                        | Accessories not incl.:                                                                                                                                                                               |                                                                                                                                                                     |                                                                                                                                                                                           |
|                                                                                        |                                                                                                                                                                                                      |                                                                                                                                                                     |                                                                                                                                                                                           |
|          |  8 x Schraube<br> 8 x Hammermutter | 8 x Screw M6x12<br>8 x T-Nut Slot 8 M6                                                                                                                              |  5000 N  320 Nm     |
|          | 4 x Schraube<br>4 x Hammermutter<br>1 x Hammerschraube<br>1 x Flanschmutter                                                                                                                          | 4 x Screw M6x12<br>4 x T-Nut Slot 8 M6<br>1 x T-Bolt M8x25<br>1 x Flange nut                                                                                        |  3000 N  125 Nm |
|          | 2 x Hammerschraube<br>2 x Flanschmutter                                                                                                                                                              | 2 x T-Bolt M8x25<br>2 x Flange nut                                                                                                                                  |                                                                                                        |
|    | 1 x Abdeckkappe                                                                                                                                                                                      | 1 x Cover cap                                                                                                                                                       | 102 032 702                                                                                                                                                                               |

## Würfelverbinder Cubic Connectors

|                                                                                   |                                                                                   | Allgemein                                                                                                                     | General                                                                                            |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|  |  | <b>Material</b><br>Aluminiumdruckguss                                                                                         | <b>Material</b><br>Die cast aluminium                                                              |
|                                                                                   |                                                                                   | <b>Anwendung</b><br>Zur rechtwinkligen Verbindung von bis zu drei Profilen, inkl. Abdeckkappen zum Verschließen der Öffnungen | <b>Application</b><br>To connect up to three profiles rectangularly, incl. caps to cover the bores |
|                                                                                   |                                                                                   | <b>Vorteile</b><br>Verdrehgesicherte Verbindung, optisch ansprechend                                                          | <b>Advantages</b><br>Rotation-proof connection, appealing design                                   |
|                                                                                   |                                                                                   | 102 007 003                                                                                                                   | Würfelverbinder 20x20-2D                                                                           |



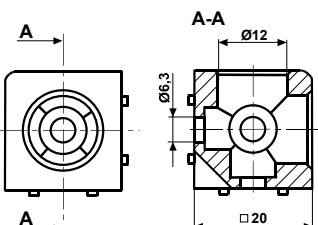
|                                                                                    |                                                                                   |                                             |                                                  |       |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------|-------|
|  |  | Stückzahl/Box                               | Quantity/box                                     | 10    |
|                                                                                    |                                                                                   | Gewicht/Stk.                                | Weight/pc                                        | 10g   |
|                                                                                    |                                                                                   | Gewicht/Box                                 | Weight/box                                       | 0,1kg |
|                                                                                    |                                                                                   | Inkl. 2 x Abdeckkappen                      | Incl. 2 x cover caps                             |       |
|                                                                                    |                                                                                   | Zubehör nicht inkl.:<br>2 x Schrauben M6x20 | Accessories not incl.:<br>2 x Central bolt M6x20 |       |

102 007 004

Würfelverbinder 20x20-3D

Cubic Connector 20x20-3D



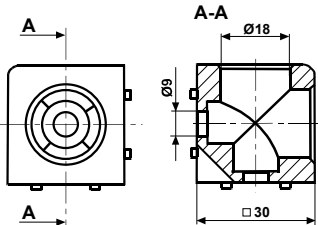
|                                                                                     |                                                                                     |                                             |                                                  |       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------|-------|
|  |  | Stückzahl/Box                               | Quantity/box                                     | 10    |
|                                                                                     |                                                                                     | Gewicht/Stk.                                | Weight/pc                                        | 10g   |
|                                                                                     |                                                                                     | Gewicht/Box                                 | Weight/box                                       | 0,1kg |
|                                                                                     |                                                                                     | Inkl. 3 x Abdeckkappen                      | Incl. 3 x cover caps                             |       |
|                                                                                     |                                                                                     | Zubehör nicht inkl.:<br>3 x Schrauben M6x20 | Accessories not incl.:<br>3 x Central bolt M6x20 |       |

102 007 005

Würfelverbinder 30x30-2D

Cubic Connector 30x30-2D



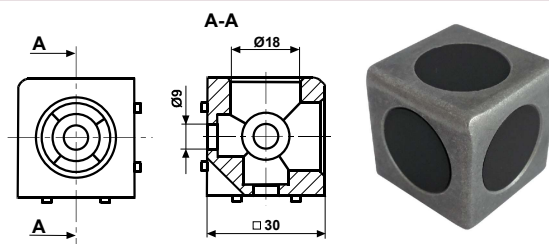
|                                                                                     |                                                                                     |                                             |                                                  |        |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------|--------|
|  |  | Stückzahl/Box                               | Quantity/box                                     | 4      |
|                                                                                     |                                                                                     | Gewicht/Stk.                                | Weight/pc                                        | 39g    |
|                                                                                     |                                                                                     | Gewicht/Box                                 | Weight/box                                       | 0,39kg |
|                                                                                     |                                                                                     | Inkl. 2 x Abdeckkappen                      | Incl. 2 x cover caps                             |        |
|                                                                                     |                                                                                     | Zubehör nicht inkl.:<br>2 x Schrauben M8x20 | Accessories not incl.:<br>2 x Central bolt M8x20 |        |

## Würfelverbinder Cubic Connectors

### Würfelverbinder 30x30-3D Cubic Connector 30x30-3D

102 007 006

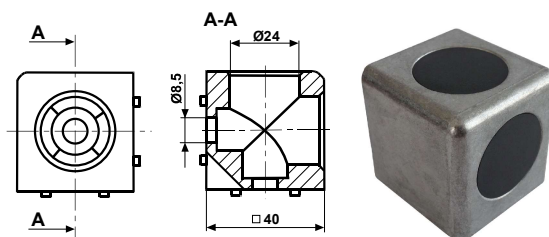
|                        |                        |        |
|------------------------|------------------------|--------|
| Stückzahl/Box          | Quantity/box           | 10     |
| Gewicht/Stk.           | Weight/pc              | 39g    |
| Gewicht/Box            | Weight/box             | 0,39kg |
| Inkl. 3 x Abdeckkappen | Incl. 3 x cover caps   |        |
| Zubehör nicht inkl.:   | Accessories not incl.: |        |
| 3 x Schrauben M8x20    | 3 x Central bolt M8x20 |        |



### Würfelverbinder 40x40-2D Cubic Connector 40x40-2D

102 007 007

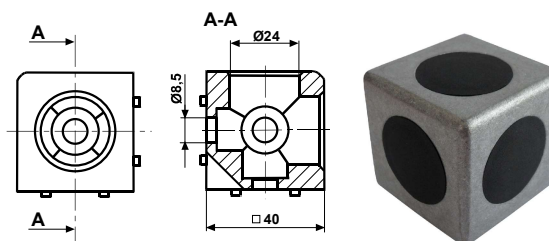
|                        |                         |        |
|------------------------|-------------------------|--------|
| Stückzahl/Box          | Quantity/box            | 10     |
| Gewicht/Stk.           | Weight/pc               | 95g    |
| Gewicht/Box            | Weight/box              | 0,95kg |
| Inkl. 2 x Abdeckkappen | Incl. 2 x cover caps    |        |
| Zubehör nicht inkl.:   | Accessories not incl.:  |        |
| 2 x Schrauben          | 2 x Central bolt M12x30 |        |



### Würfelverbinder 40x40-3D Cubic Connector 40x40-3D

102 007 008

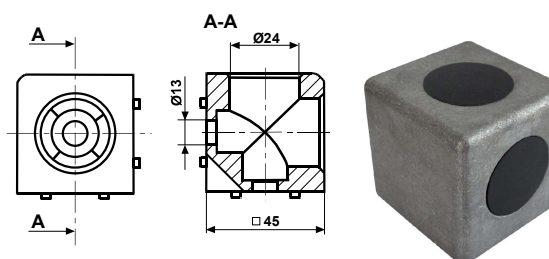
|                        |                         |        |
|------------------------|-------------------------|--------|
| Stückzahl/Box          | Quantity/box            | 10     |
| Gewicht/Stk.           | Weight/pc               | 95g    |
| Gewicht/Box            | Weight/box              | 0,95kg |
| Inkl. 3 x Abdeckkappen | Incl. 3 x cover caps    |        |
| Zubehör nicht inkl.:   | Accessories not incl.:  |        |
| 3 x Schrauben          | 3 x Central bolt M12x30 |        |



### Würfelverbinder 45x45-2D Cubic Connector 45x45-2D

102 007 009

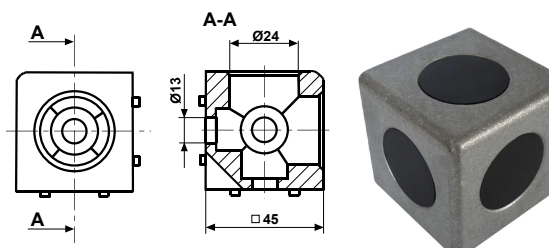
|                        |                         |        |
|------------------------|-------------------------|--------|
| Stückzahl/Box          | Quantity/box            | 10     |
| Gewicht/Stk.           | Weight/pc               | 152g   |
| Gewicht/Box            | Weight/box              | 1,52kg |
| Inkl. 2 x Abdeckkappen | Incl. 2 x cover caps    |        |
| Zubehör nicht inkl.:   | Accessories not incl.:  |        |
| 2 x Schrauben          | 2 x Central bolt M12x30 |        |



### Würfelverbinder 45x45-3D Cubic Connector 45x45-3D

102 007 010

|                        |                         |        |
|------------------------|-------------------------|--------|
| Stückzahl/Box          | Quantity/box            | 1      |
| Gewicht/Stk.           | Weight/pc               | 152g   |
| Gewicht/Box            | Weight/box              | 1,52kg |
| Inkl. 3 x Abdeckkappen | Incl. 3 x cover caps    |        |
| Zubehör nicht inkl.:   | Accessories not incl.:  |        |
| 3 x Schrauben          | 3 x Central bolt M12x30 |        |



## Eckwinkel Corner Brackets

## Allgemein

## General



## Material

Aluminiumdruckguss

## Anwendung

Zur rechtwinkligen Verbindung von drei Profilen

## Vorteile

Verdrehgesicherte Verbindung, optisch ansprechend

## Material

Die cast aluminium

## Application

To connect three profiles rectangularly

## Advantages

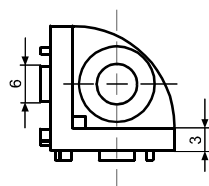
Rotation-proof connection, appealing design

2

102 007 011

Eckwinkel 20

Corner Bracket 20



Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

Quantity/box

Weight/pc

Weight/box

10

10g

0,1kg

Zubehör nicht inkl.:

3 x Schrauben

1 x Abdeckkappe rund

1 x Abdeckkappe kubisch

Accessories not incl.:

3 x Screws

1 x cover cap round

1 x cover cap cube

102 007 710

102 007 711



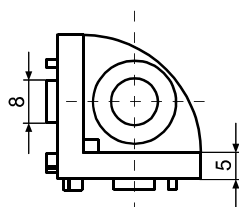
22 Nm



102 007 012

Eckwinkel 30

Corner Bracket 30



Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

Quantity/box

Weight/pc

Weight/box

10

40g

0,4kg

Zubehör nicht inkl.:

3 x Schrauben

1 x Abdeckkappe rund

1 x Abdeckkappe kubisch

Accessories not incl.:

3 x Screws

1 x cover cap round

1 x cover cap cube

102 007 712

102 007 713

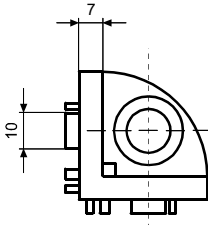


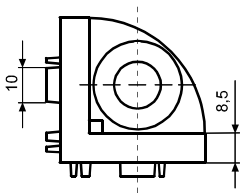
85 Nm



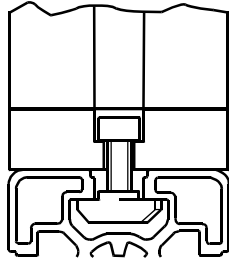
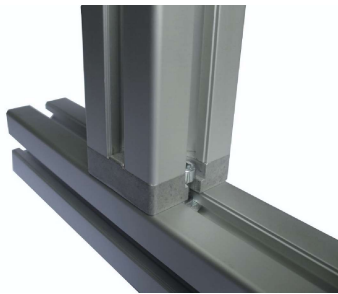


## Eckwinkel Corner Brackets

| Eckwinkel 40                                                                                                                                                        | Corner Bracket 40                                                                 |                                               | 102 007 013                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box                                                                                                                        | Quantity/box<br>Weight/pc<br>Weight/box                                           | 10<br>85g<br>0,85kg                                                                                                            |                                                                                     |
| Zubehör nicht inkl.:<br>3 x Schrauben<br>1 x Abdeckkappe rund<br>1 x Abdeckkappe kubisch                                                                            | Accessories not incl.:<br>3 x Screws<br>1 x cover cap round<br>1 x cover cap cube | <br><b>102 007 714</b><br><b>102 007 715</b> |  |
|   |                                                                                   |  <b>140 Nm</b>                              | <b>2</b>                                                                            |

| Eckwinkel 45                                                                                                                                                            | Corner Bracket 45                                                                 |                                                | 102 007 014                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box                                                                                                                            | Quantity/box<br>Weight/pc<br>Weight/box                                           | 10<br>132g<br>1,32kg                                                                                                            |                                                                                      |
| Zubehör nicht inkl.:<br>3 x Schrauben<br>1 x Abdeckkappe rund<br>1 x Abdeckkappe kubisch                                                                                | Accessories not incl.:<br>3 x Screws<br>1 x cover cap round<br>1 x cover cap cube | <br><b>102 007 716</b><br><b>102 007 717</b> |  |
|   |                                                                                   |  <b>170 Nm</b>                             |                                                                                      |

## T-Verbinder T Connector



## Allgemein

## General

## Material

Zinkdruckguss, für Profile 45x45

## Material

Die cast zinc for profile 45x45

## Anwendung

Zur rechtwinkligen Verbindung von 45x45-Profilen an andere Profile oder Platten

## Application

To connect profiles 45x45 rectangularly to other profiles or plates

## Vorteile

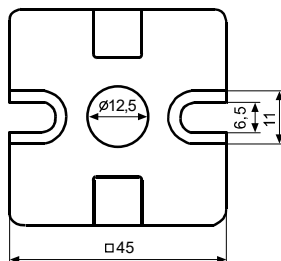
Hochfeste Verbindung, optisch ansprechend

## Advantages

High-strength connection, appealing design

2

102 007 001



## T-Verbinder

Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

Höhe

Max. Belastung

Biegemoment

Zubehör nicht inkl.:

1 x Zentralschraube

2 x Hammermutter

2 x Schrauben

## T Connector

Quantity/box

Weight/pc

Weight/box

Height

max. load

Bending moment

Accessories not incl.:

1 x Central Bolt M12x30

2 x T-Nut Slot 10 M6

2 x Screws M6x16



100

55g

5,5kg

13mm

9000N

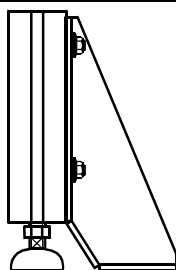
200Nm

102 006 002

102 010 009

102 009 001

## Fundamentwinkel Floor Bracket



## Allgemein

## General

## Material

Stahl verzinkt 4 mm, für Schrauben Ø 8 mm

## Material

Zinc plated steel 4 mm thickness for screws Ø 8 mm

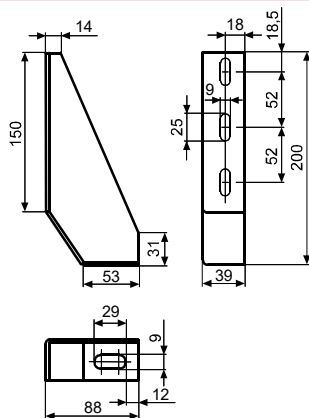
## Anwendung

Feste Verankerung von Aluminiumprofilen auf dem Fußboden

## Application

Securely fix aluminium profiles to the floor

102 003 001



## Fundamentwinkel

## Floor Bracket



Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

Zubehör nicht inkl.:

2 x Hammerschraube

2 x Flanschmutter

Quantity/box

Weight/pc

Weight/box

Accessories not incl.:

2 x T-Bolt M8x25

2 x Flange nut

10

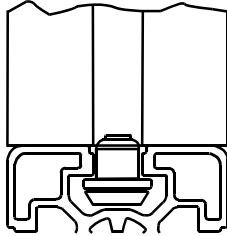
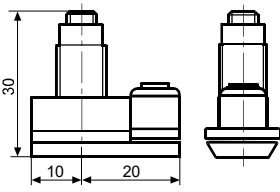
550g

5,50kg

102 010 001

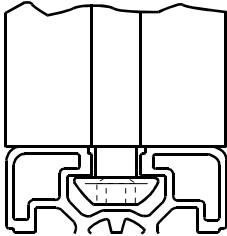
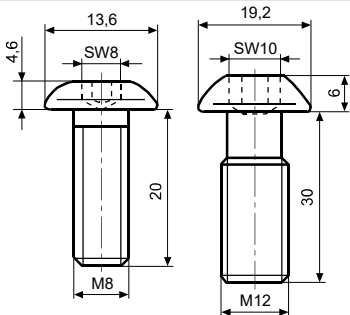
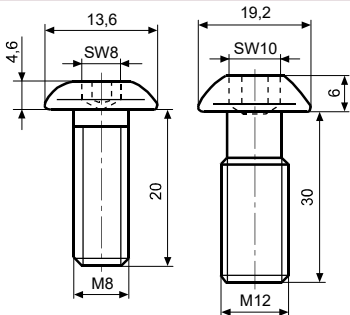
102 010 003

## Multiverbinder Multi Connector

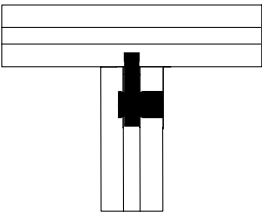
| Allgemein                                                                                                                                                                                                                | General                                                                                                                                                                                                  |                                                                                                                                                                                                                                                           |                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>Material</b><br>Stahl, verzinkt<br><b>Anwendung</b><br>Zur rechtwinkligen Verbindung von Profilen 40x40 oder 45x45 mit anderen Profilen (Nut 10)<br><b>Vorteile</b><br>Kein Bohren nötig, verstellbar, nicht sichtbar | <b>Material</b><br>Steel, zinc plated<br><b>Application</b><br>To connect a profile 40x40 or 45x45 to any profile with slot 10 rectangularly<br><b>Advantages</b><br>No tapping, adjustable, not visible |                                                                                      |                    |
| <b>Multiverbinder</b><br>Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br>Zubehör inkl.:<br>1 x Schneidhülse<br>1 x Schraube M8<br>Werkzeug für Schneidhülse auf Anfrage                                                  | <b>Multi Connector</b><br>Quantity/box<br>Weight/pc<br>Weight/box<br>Accessories incl.:<br>1 x Cutting bush<br>1 x M8 screw<br>Tool for the cutting bush on request                                      |    | <b>102 005 001</b> |

2

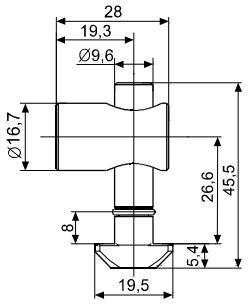
## Zentralschraube Central Bolt

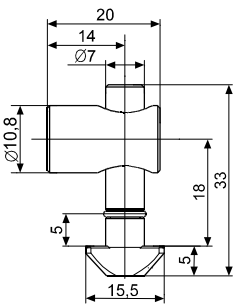
| Allgemein                                                                                                                                                                    | General                                                                                                                                                        |                                                                                                                                                                            |                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <b>Material</b><br>Stahl, verzinkt, 8,8<br><b>Anwendung</b><br>Zur rechtwinkligen Verbindung von Profilen<br><b>Vorteile</b><br>Nicht sichtbar, preiswert                    | <b>Material</b><br>Steel, zinc plated, 8.8<br><b>Application</b><br>To connect profiles rectangularly<br><b>Advantages</b><br>Not visible, low cost            |   |                                                                               |
| <b>Zentralschraube</b><br><b>M8x20</b><br>Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br><b>M12x30</b><br>Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box                      | <b>Central Bolt</b><br><b>M8x20</b><br>Quantity/box<br>Weight/pc<br>Weight/box<br><b>M12x30</b><br>Quantity/box<br>Weight/pc<br>Weight/box                     |   | <b>102 006 ...</b><br><b>M8: 001</b> <b>M12: 002</b>                          |
| <b>Gewindeformende Zentralschraube Torx</b><br><b>S8x25</b><br>Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br><b>S12x30</b><br>Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box | <b>Thread Forming Central Bolt Torx</b><br><b>S8x25</b><br>Quantity/box<br>Weight/pc<br>Weight/box<br><b>S12x30</b><br>Quantity/box<br>Weight/pc<br>Weight/box |   | <b>102 006 ...</b><br><b>S8: 004</b> <b>S12: 003</b><br><b>T40</b> <b>T50</b> |

## Schnellspanverbinder Quick Connectors

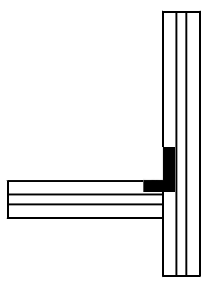
| Allgemein                                                                                                                                                           |                                                                                    | General                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|   | <b>Material</b><br>Stahl, verzinkt                                                 | <b>Material</b><br>Steel, zinc plated                                         |
|                                                                                                                                                                     | <b>Anwendung</b><br>Zur rechtwinkligen Verbindung von zwei Profilen                | <b>Application</b><br>To make a solid, rectangular connection of two profiles |
|                                                                                                                                                                     | <b>Vorteile</b><br>Hohe Zugfestigkeit, problemloses Einsetzen von Flächenelementen | <b>Advantages:</b><br>High tensile strength, easy to insert panels            |

2

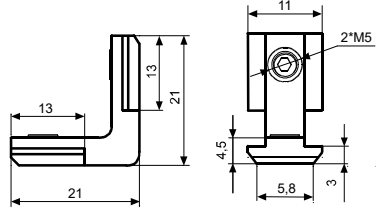
| 102 023 ...                                                                                                                                                           | 25 Nm | Schnellspanverbinder                                                                             | Quick Connector                                                                                    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 0° : 005    90° : 006                                                                                                                                                 |       | Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box                                                     | Quantity/box<br>Weight/pc<br>Weight/box                                                            | 100<br>55g<br>5,5kg                                                                 |
|   |       | Bohrung (Ø)<br>Abstand zum Profilenende                                                          | Drilling (Ø)<br>Distance to the end of profile                                                     | 17mm<br>22,5mm                                                                      |
|                                                                                                                                                                       |       | Tiefe 40x40<br>Tiefe 45x45                                                                       | Depth 40x40<br>Depth 45x45                                                                         | 31mm<br>34mm                                                                        |
|                                                                                                                                                                       |       |  <b>4000 N</b> |  <b>140 Nm</b> |                                                                                     |

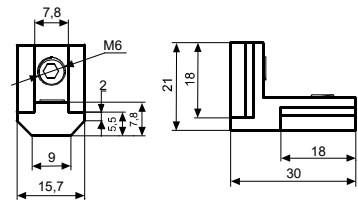
| 102 023 ...                                                                                                                                                             | 12 Nm | Schnellspanverbinder                                                                             | Quick Connector                                                                                   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 0° : 001    90° : 002                                                                                                                                                   |       | Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box                                                     | Quantity/box<br>Weight/pc<br>Weight/box                                                           | 100<br>20g<br>2,0kg                                                                   |
|   |       | Bohrung (Ø)<br>Abstand zum Profilenende                                                          | Drilling (Ø)<br>Distance to the end of profile                                                    | 11mm<br>18mm                                                                          |
|                                                                                                                                                                         |       | Tiefe 30x30                                                                                      | Depth 30x30                                                                                       | 22mm                                                                                  |
|                                                                                                                                                                         |       |  <b>500 N</b> |  <b>40 Nm</b> |                                                                                       |

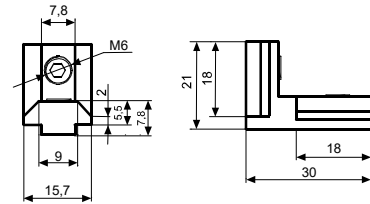
## Innenwinkel Inner Brackets

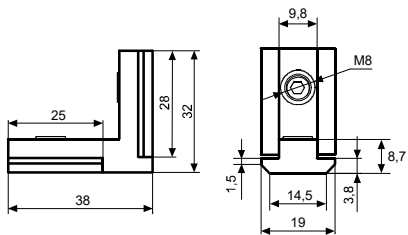
| Allgemein                                                                                                                                                               |                                                                           | General                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------|
|   | <b>Material</b><br>Zink-Druckguss;<br>Oberfläche: vernickelt              | <b>Material</b><br>Die-cast zinc;<br>Surface: Nickel plated           |
|                                                                                                                                                                         | <b>Anwendung</b><br>Rahmen, leichte Regale, Vitrinen                      | <b>Application</b><br>Frames, light shelves, displays                 |
|                                                                                                                                                                         | <b>Vorteile</b><br>Keine Bearbeitung oder Bohrung nötig, einfache Montage | <b>Advantage</b><br>No machining or drilling necessary, easy mounting |

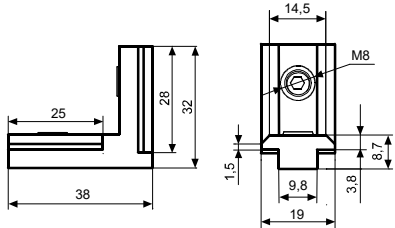
## Innenwinkel Inner Brackets

|                                                                                                |                                                                                                |                                                                                   |                                                                                    |                                                                                     |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Innenwinkel Nut 6</b>                                                                       | <b>Inner bracket slot 6</b>                                                                    |  |                                                                                    | <b>102 026 005</b>                                                                  |
| Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br><b>Schrauben inklusive</b>                     | Quantity/box<br>Weight/pc<br>Weight/box<br><b>Including screws</b>                             | 100<br>3g<br>0,3kg                                                                |  |  |
|  <b>600 N</b> |  <b>10 Nm</b> |                                                                                   |                                                                                    |                                                                                     |

|                                                                                                 |                                                                                                |                                                                                   |                                                                                                |                                                                                     |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Innenwinkel Nut 8, A</b>                                                                     | <b>Inner bracket slot 8, A</b>                                                                 |  |  <b>12 Nm</b> | <b>102 026 001</b>                                                                  |
| Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br><b>Schrauben inklusive</b>                      | Quantity/box<br>Weight/pc<br>Weight/box<br><b>Including screws</b>                             | 100<br>24g<br>2,4kg                                                               |              |  |
|  <b>2500 N</b> |  <b>50 Nm</b> |                                                                                   |                                                                                                |                                                                                     |

|                                                                                                   |                                                                                                  |                                                                                   |                                                                                                |                                                                                       |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Innenwinkel Nut 8, B</b>                                                                       | <b>Inner bracket slot 8, B</b>                                                                   |  |  <b>12 Nm</b> | <b>102 026 002</b>                                                                    |
| Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br><b>Schrauben inklusive</b>                        | Quantity/box<br>Weight/pc<br>Weight/box<br><b>Including screws</b>                               | 100<br>24g<br>2,4kg                                                               |            |  |
|  <b>2200 N</b> |  <b>50 Nm</b> |                                                                                   |                                                                                                |                                                                                       |

|                                                                                                   |                                                                                                   |                                                                                     |                                                                                                  |                                                                                       |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Innenwinkel Nut 10, A</b>                                                                      | <b>Inner bracket slot 10, A</b>                                                                   |  |  <b>15 Nm</b> | <b>102 026 003</b>                                                                    |
| Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br><b>Schrauben inklusive</b>                        | Quantity/box<br>Weight/pc<br>Weight/box<br><b>Including screws</b>                                | 100<br>44g<br>4,40kg                                                                |              |  |
|  <b>3000 N</b> |  <b>100 Nm</b> |                                                                                     |                                                                                                  |                                                                                       |

|                                                                                                   |                                                                                                   |                                                                                     |                                                                                                  |                                                                                       |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Innenwinkel Nut 10, B</b>                                                                      | <b>Inner bracket slot 10, B</b>                                                                   |  |  <b>15 Nm</b> | <b>102 026 004</b>                                                                    |
| Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br><b>Schrauben inklusive</b>                        | Quantity/box<br>Weight/pc<br>Weight/box<br><b>Including screws</b>                                | 100<br>44g<br>4,40kg                                                                |              |  |
|  <b>2800 N</b> |  <b>100 Nm</b> |                                                                                     |                                                                                                  |                                                                                       |

Inline-Verbinder  
Inline Connectors



Allgemein

Material

Stahl, verzinkt

Anwendung

Zur rechtwinkligen stabilen  
Verbindung von zwei  
Aluminium-Profilen

Vorteile

Schnell und solide;  
Montage ohne  
Profilbearbeitung

General

Material

Zinc plated steel

Application

To Connect two aluminum profiles

Advantage

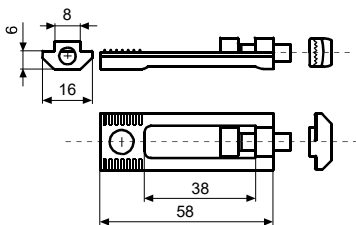
Fast and solid; assembly without machining

2

102 008 004

Inline Verbinder Set

Inline Connector Set



Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

Schraube und  
Hammermutter inklusive

Quantity/box

Weight/pc

Weight/box

Including screw  
and T Nut

10

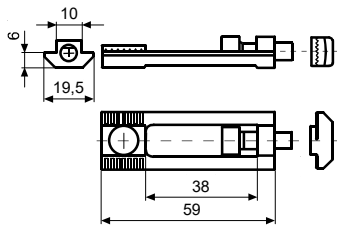
32g

320g

102 008 002

Inline Verbinder Set

Inline Connector Set



Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

Schraube und  
Hammermutter inklusive

Quantity/box

Weight/pc

Weight/box

Including screw  
and T Nut

10

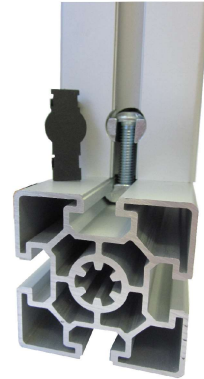
38g

380g

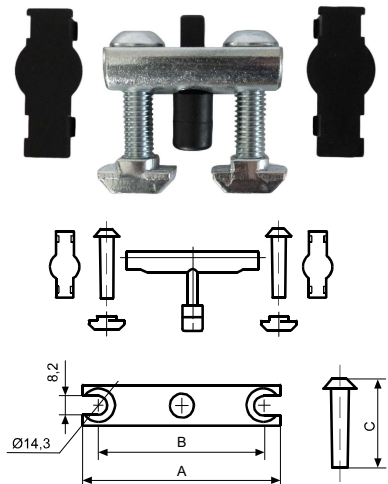


## Bolzenverbinder Bolt Connectors

| Allgemein                                                                                                                                                                                                                     | General                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material</b><br>Grundkörper: Stahl, verzinkt<br>Schrauben: Stahl, verzinkt<br>Hammermuttern: Stahl, verzinkt<br>Fixierbolzen: Kunststoff PA, glasfaserverstärkt<br>Schraubenabdeckungen: Kunststoff PA, glasfaserverstärkt | <b>Material</b><br>Base element: Zinc plated steel<br>Screws: Zinc plated steel<br>Hammer nuts: Zinc plated steel<br>Fixing bolts: Nylon PA, glass fibre reinforced<br>Screw covers: Nylon PA, glass fibre reinforced |
| <b>Anwendung</b><br>Zur rechtwinkligen stabilen Verbindung von zwei Aluminiumprofilen                                                                                                                                         | <b>Application</b><br>To connect two aluminum profiles rectangularly                                                                                                                                                  |
| <b>Vorteile</b><br>Für hohe Belastungen - und Torsion geeignet                                                                                                                                                                | <b>Advantage</b><br>suitable for heavy loads and torsional stress                                                                                                                                                     |

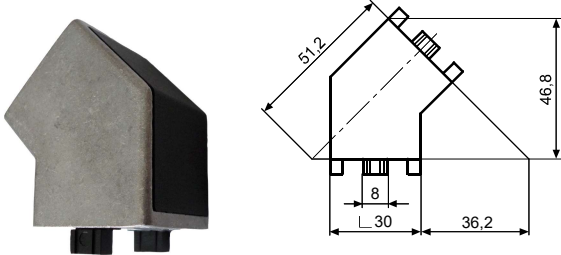
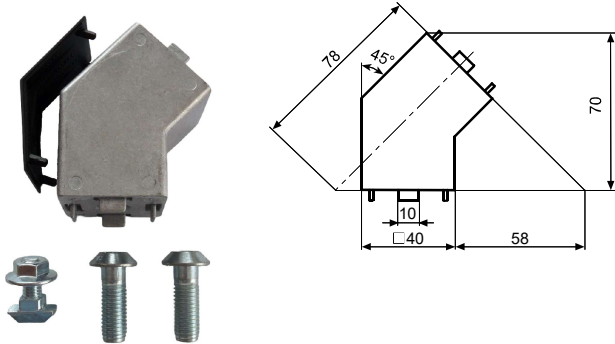
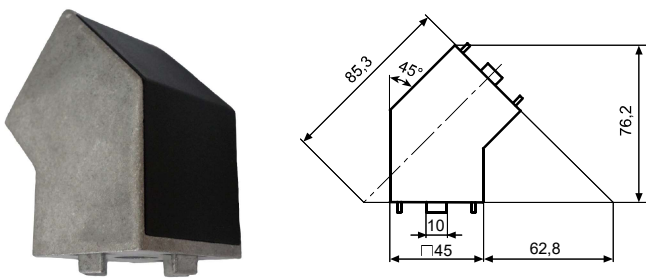


| Bolzenverbinder Set                          | Bolt Connector Set                 | 8         | 10 | 102 008 ... |
|----------------------------------------------|------------------------------------|-----------|----|-------------|
| Stückzahl/Box                                | Quantity/box                       | 10        |    |             |
| Gewicht/Set.                                 | Weight/Set                         | See table |    |             |
| Gewicht/Box                                  | Weight/box                         | See table |    |             |
| <b>Schrauben und Hammermuttern inklusive</b> | <b>Including screws and T Nuts</b> |           |    |             |

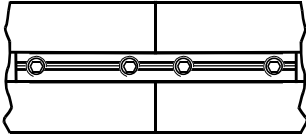
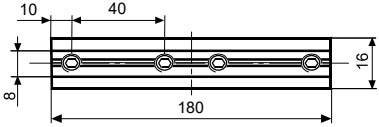
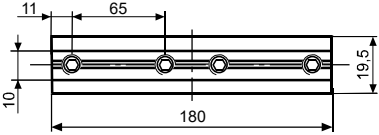


| Profiltyp<br>Profile type | Bestellnr.<br>Order code<br>102 008 ... |       |       | Bohrungs Ø<br>Bore Ø | Schraube<br>Screw |      | Gewicht / Set<br>Weight / Set | Gewicht / Box<br>Weight / Box | A    | B    | C    |
|---------------------------|-----------------------------------------|-------|-------|----------------------|-------------------|------|-------------------------------|-------------------------------|------|------|------|
| 30x30                     | 005                                     | 2500N | 60Nm  | 8,2mm                | M5                | 6Nm  | 26g                           | 0,26kg                        | 28mm | 18mm | 25mm |
| 40x40                     | 006                                     | 4000N | 180Nm | 17mm                 | M8                | 25Nm | 74g                           | 0,74kg                        | 37mm | 23mm | 35mm |
| 45x45                     | 007                                     | 4000N | 190Nm | 17mm                 | M8                | 25Nm | 78g                           | 0,78kg                        | 42mm | 28mm | 35mm |
| 60x60                     | 008                                     | 4000N | 200Nm | 17mm                 | M8                | 25Nm | 83g                           | 0,83kg                        | 57mm | 43mm | 35mm |
| 80x80                     | 009                                     | 5000N | 800Nm | 17mm                 | M8                | 25Nm | 121g                          | 1,21kg                        | 77mm | 63mm | 35mm |
| 90x90                     | 010                                     | 5000N | 800Nm | 17mm                 | M8                | 25Nm | 133g                          | 1,33kg                        | 87mm | 73mm | 35mm |

## 45° Verbinder 45° Connectors

|                                                                                   |             | Allgemein                                                                                                                                                                                              | General                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |             | <b>Material</b><br>Aluminiumdruckguss<br>blanke Oberfläche<br>Abdeckkappe PA, schwarz<br><b>Anwendung</b><br>Zur 45°Verbindung<br>von Profilen<br><b>Vorteile</b><br>Zur Versteifung von<br>Strukturen | <b>Material</b><br>Die cast aluminium<br>plain surface<br>cover cap PA, black<br><b>Application</b><br>To connect profiles<br>under 45°<br><b>Advantages</b><br>To make structures more rigid                                                                                                                                                   |
| 2                                                                                 | 102 029 001 | <b>45° Verbinder 30</b><br>                                                                                           | <b>45° Connector 30</b>  <br>Stückzahl/Box 5<br>Gewicht/Stk. 45g<br>Gewicht/Box 0,225kg<br>1 x Abdeckkappe inkl.<br>Zubehör nicht inkl.:<br>2 x Schrauben M8<br>Mutter(n) |
|                                                                                   | 102 029 002 | <b>45°Verbinder 40</b><br>                                                                                          | <b>45° Connector 40</b> <br>Stückzahl/Box 2<br>Gewicht/Set 250g<br>Gewicht/Box 0,500kg<br>Zubehör inkl.:<br>1 x Hammerschraube<br>1 x Flanschmutter<br>1 x Abdeckkappe<br>2 x Schraube                                                                     |
|                                                                                   |             |                                                                                                                                                                                                        | Quantity/box 5<br>Weight/pc 45g<br>Weight/box 0,225kg<br>1 x Cover cap incl.<br>Accessories not incl.:<br>2 x Screw M8<br>Nut(s)                                                                                                                                                                                                                |
|                                                                                   |             |                                                                                                                                                                                                        | 1 x Cover cap incl.<br>Accessories incl.:<br>1 x T-Bolt M8x20<br>1 x Flange nut<br>1 x Cover cap<br>2 x Bolt<br><b>M8x20</b><br><b>M8</b><br><b>S12x3</b>                                                                                                                                                                                       |
|                                                                                   | 102 029 003 | <b>45° Verbinder 45</b><br>                                                                                         | <b>45° Connector 45</b> <br>Stückzahl/Box 5<br>Gewicht/Stk. 155g<br>Gewicht/Box 0,775kg<br>1 x Abdeckkappe inkl.<br>Zubehör nicht inkl.:<br>2 x Schrauben M12<br>Mutter(n)                                                                                 |
|                                                                                   |             |                                                                                                                                                                                                        | Quantity/box 5<br>Weight/pc 155g<br>Weight/box 0,775kg<br>1 x Cover cap incl.<br>Accessories not incl.:<br>2 x Screw M12<br>Nut(s)                                                                                                                                                                                                              |

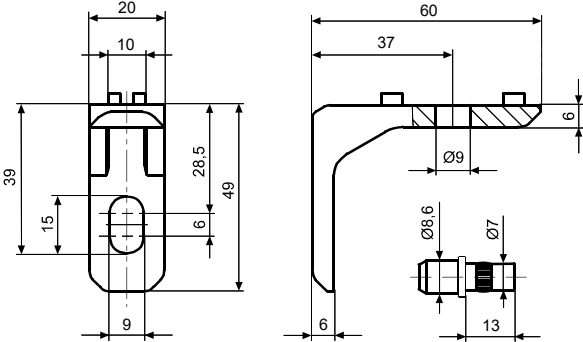
## Profilverbinder Profile Connectors

| Allgemein                                            |                                                                   | General                                                                                                                                                                |                                                                                                                                                                         |
|------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material</b><br>Stahl, verzinkt                   | <b>Material</b><br>Steel, zinc plated                             |   |                                                                                                                                                                         |
| <b>Anwendung</b><br>Zur Längsverbinding von Profilen | <b>Application</b><br>To make connections for profiles end to end |                                                                                                                                                                        |                                                                                                                                                                         |
| <b>Profilverbinder</b>                               | <b>Profile connector</b>                                          |                                                                                       | <b>102 008 003</b>                                                                                                                                                      |
| Stückzahl/Box                                        | Quantity/box                                                      | 50                                                                                                                                                                     |    |
| Gewicht/Stk.                                         | Weight/pc                                                         | 100g                                                                                                                                                                   |                                                                                                                                                                         |
| Gewicht/Box                                          | Weight/box                                                        | 5,0kg                                                                                                                                                                  |                                                                                                                                                                         |
| Im Lieferumfang enthalten:<br>4x Gewindestift M8x10  | Included in delivery:<br>4x headless screw M8x10                  |                                                                                                                                                                        |                                                                                                                                                                         |
| <b>Profilverbinder</b>                               | <b>Profile connector</b>                                          |                                                                                       | <b>102 008 001</b>                                                                                                                                                      |
| Stückzahl/Box                                        | Quantity/box                                                      | 25                                                                                                                                                                     |   |
| Gewicht/Stk.                                         | Weight/pc                                                         | 190g                                                                                                                                                                   |                                                                                                                                                                         |
| Gewicht/Box                                          | Weight/box                                                        | 4,75kg                                                                                                                                                                 |                                                                                                                                                                         |
| Im Lieferumfang enthalten:<br>4x Gewindestift M8x10  | Included in delivery:<br>4x headless screw M8x10                  |                                                                                                                                                                        |                                                                                                                                                                         |

Schutzzaunwinkel Set  
Fence Bracket Set

2

| Allgemein                                                                          |                                                                             | General                                                                     |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|  | <b>Material</b><br>Zinkdruckguss                                            | <b>Material</b><br>Die cast zinc                                            |
|                                                                                    | <b>Anwendung</b><br>Zur Befestigung von Schutzzaunfeld zwischen 2 Profilen  | <b>Application</b><br>To mount a protection fence frame between to profiles |
|                                                                                    | <b>Vorteile</b><br>Langlöcher<br>Ein-Mann-Montage dank Einhängung von unten | <b>Advantages</b><br>Long holes<br>one-man-assembly, due to pins at bottom  |

| 102 040 001                                                                         | Schutzzaunwinkel Set                     | Fence Bracket Set                  |  |
|-------------------------------------------------------------------------------------|------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
|  | Stückzahl/Box                            | Quantity/box                       | 1 (4pcs)                                                                              |
|                                                                                     | Gewicht/Stk.                             | Weight/pc                          | 106g                                                                                  |
|                                                                                     | Gewicht/Box                              | Weight/box                         | 0,11kg                                                                                |
|  | Im Lieferumfang enthalten:               | Included in delivery:              |                                                                                       |
|                                                                                     | 4 Einhängewinkel                         | 4 suspension brackets              |                                                                                       |
|                                                                                     | 4 Flanschmuttern M8                      | 4 flange nuts M8                   |                                                                                       |
|                                                                                     | 4 Hammerschrauben M8x20                  | 4 hammer head screws M8x20         |                                                                                       |
|                                                                                     | 2 Sicherungsschrauben M8x16              | 2 locking screws M8x16             |                                                                                       |
|                                                                                     | 2 Zapfen Ø8,6 mit Rändel für Kernbohrung | 2 knurled pins Ø8.6, for core bore |                                                                                       |

Schutzzaunfuß  
Fence Mount Base

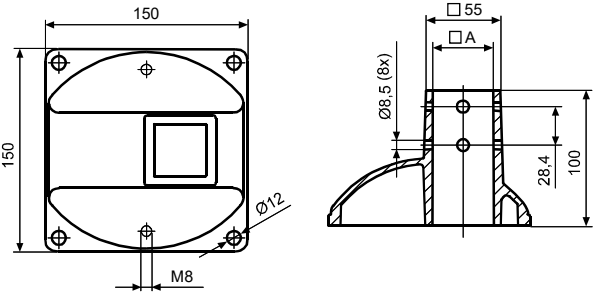
| Allgemein                                                        | General                                                           |
|------------------------------------------------------------------|-------------------------------------------------------------------|
| <b>Material</b><br>Aluminiumdruckguss                            | <b>Material</b><br>Die cast Aluminium                             |
| <b>Anwendung</b><br>Zur Montage von<br>Profilpfosten am<br>Boden | <b>Application</b><br>To mount<br>profile pillars<br>to the floor |
| <b>Vorteile</b><br>Neigungsausgleich<br>optisch ansprechend      | <b>Advantages</b><br>Aligning feature<br>appealing design         |



2

|                            |                               |                                                                                   |                    |
|----------------------------|-------------------------------|-----------------------------------------------------------------------------------|--------------------|
| <b>Schutzzaunfuß 40/45</b> | <b>Fence Mount Base 40/45</b> |  | <b>102 003 ...</b> |
|----------------------------|-------------------------------|-----------------------------------------------------------------------------------|--------------------|

|                     |                       |   |                   |                   |
|---------------------|-----------------------|---|-------------------|-------------------|
| Stückzahl/Box       | Quantity/box          | 1 | 40x40: <b>003</b> | 45x45: <b>004</b> |
| Zubehör nicht inkl. | Accessories not incl. |   |                   |                   |



| Profiltyp<br>Profile type | Bestellnr.<br>Order Code | A  | Gewicht / St<br>Weight / Pc | Gewicht / Box<br>Weight / Box |
|---------------------------|--------------------------|----|-----------------------------|-------------------------------|
| 40x40                     | <b>003</b>               | 40 | 940g                        | 0,94kg                        |
| 45x45                     | <b>004</b>               | 45 | 820g                        | 0,82kg                        |

Drehwinkel  
Swivel Brackets

| Allgemein |                                                                         | General                                                    |
|-----------|-------------------------------------------------------------------------|------------------------------------------------------------|
|           | <b>Material</b><br>Aluminiumdruckguss                                   | <b>Material</b><br>Aluminium die cast                      |
|           | <b>Anwendung</b><br>Zur Verbindung von Profilen in verstellbarem Winkel | <b>Application</b><br>To connect profiles at an adjustable |
|           | <b>Vorteile</b><br>Keine Profilbearbeitung nötig                        | <b>Advantages</b><br>No machining on profiles required     |
|           |                                                                         |                                                            |

2

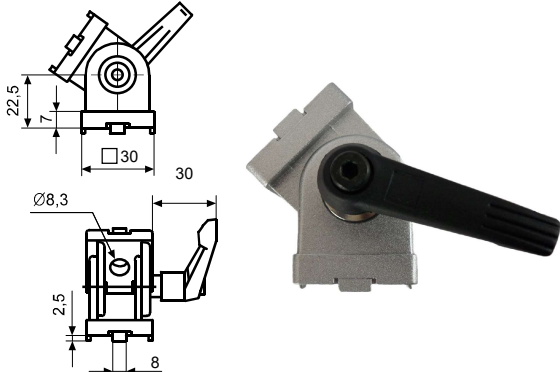
| 102 004 001 | Drehwinkel 28x38R | Swivel Bracket 28x38R |        |
|-------------|-------------------|-----------------------|--------|
|             | Stückzahl/Box     | Quantity/box          | 10     |
|             | Gewicht/Stk.      | Weight/pc             | 16g    |
|             | Gewicht/Box       | Weight/box            | 0,16kg |
|             |                   |                       |        |

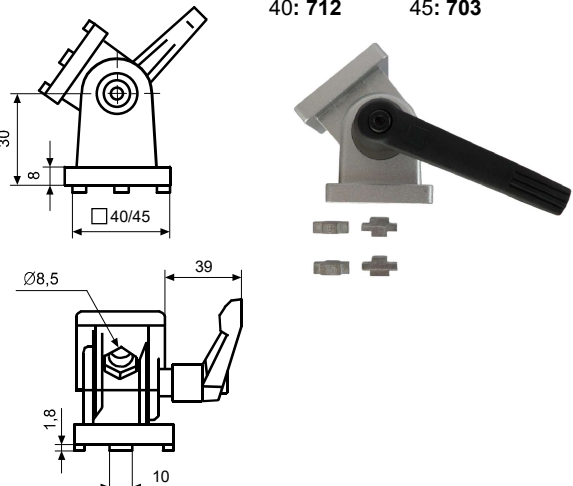
| 102 004 002 | Drehwinkel 40x43R | Swivelbracket 40x43R |        |
|-------------|-------------------|----------------------|--------|
|             | Stückzahl/Box     | Quantity/box         | 10     |
|             | Gewicht/Stk.      | Weight/pc            | 45g    |
|             | Gewicht/Box       | Weight/box           | 0,45kg |
|             |                   |                      |        |

## Gelenke Joints

| Allgemein                                                                                                                                                                               | General                                                                                                                                                                      |                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Material</b><br>Gelenk: Zinkdruckguss<br>Klemmhebel: Kunststoff PA, glasfaserverstärkt                                                                                               | <b>Material</b><br>Joint: Die-cast zinc<br>Locking lever: Nylon PA, glass filled reinforced                                                                                  |  |
| <b>Anwendung</b><br>zur Verbindung von zwei Profilen oder Flächenelementen in beliebigen Winkeln fixierbar. Mit Führungsnasen für Nut 8 oder Nut 10.                                    | <b>Application</b><br>To make a pivoting connection between 2 profiles or panels which can be fixed at any angle; fixed locating pins for slot 8 or 10 optional              |                                                                                    |
| <b>Vorteile</b><br>Mittels der Schrauben und des Klemmhebels kann der Reibungswiderstand des Gelenkes stufenlos reguliert, bzw. das Gelenk in einer definierten Position fixiert werden | <b>Advantages</b><br>By tightening or loosening the screw and the locking lever you can seamlessly regulate the functionality of the joint or you can fix it in one position |                                                                                    |

2

| Gelenk 30 mit Klemmhebel                                                            | Pivot Joint 30 with Lever                                     |  | 102 028 705 |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------|
| Stückzahl/Box                                                                       | Quantity/box                                                  | 2                                                                                 |             |
| Gewicht/Stk.                                                                        | Weight/pc                                                     | 160g                                                                              |             |
| Gewicht/Box                                                                         | Weight/box                                                    | 0,32kg                                                                            |             |
| <b>Zudem erhältlich:</b><br><b>Gelenk 30 ohne Klemmhebel</b>                        | <b>Also available:</b><br><b>Pivot Joint 30 without lever</b> | <b>102 028 709</b>                                                                |             |
|  |                                                               |                                                                                   |             |

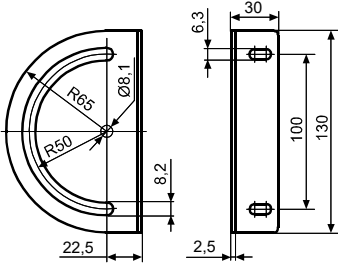
| Gelenk 40/45 mit Klemmhebel                                                          | Pivot Joint 40/45 with Lever                                  |  | 102 028 ...    |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
| Stückzahl/Box                                                                        | Quantity/box                                                  | 2                                                                                   |                |
| Gewicht/Stk.                                                                         | Weight/pc                                                     | 340 / 390g                                                                          |                |
| Gewicht/Box                                                                          | Weight/box                                                    | 0,68 / 0,78kg                                                                       |                |
| <b>Zudem erhältlich:</b><br><b>Gelenk 40 ohne Klemmhebel</b>                         | <b>Also available:</b><br><b>Pivot Joint 40 without lever</b> | <b>102 028 707</b>                                                                  | <b>40: 712</b> |
| <b>Gelenk 45 ohne Klemmhebel</b>                                                     | <b>Pivot Joint 45 without lever</b>                           | <b>102 028 704</b>                                                                  | <b>45: 703</b> |
|  |                                                               |                                                                                     |                |



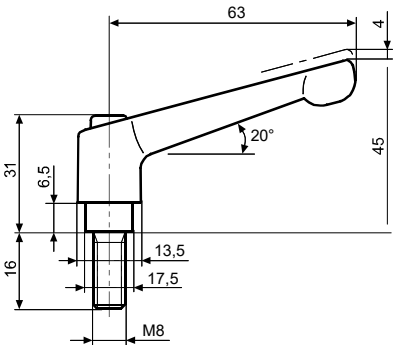
Schwenkwinkel  
Pivoting Bracket

|                                                                                   | Allgemein                                                            | General                                                    |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------|
|  | <b>Material</b><br>Stahl, verzinkt                                   | <b>Material</b><br>Steel, zinc plated                      |
|                                                                                   | <b>Anwendung</b><br>Einstellbare<br>Winkelverbindung,<br>arretierbar | <b>Application</b><br>Adjustable angle connector, lockable |

2

| 102 004 003                                                                                                                                                           | Schwenkwinkel       | Pivoting Bracket      |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|-------------------------------------------------------------------------------------|
|   | Stückzahl/Box       | Quantity/box          | 10                                                                                  |
|                                                                                                                                                                       | Gewicht/Stk.        | Weight/pc             | 220g                                                                                |
|                                                                                                                                                                       | Gewicht/Box         | Weight/box            | 2,2kg                                                                               |
|                                                                                                                                                                       | Zubehör nicht inkl. | Accessories not incl. |                                                                                     |

| 102 004 702                                                                         | Klemmhebel                                                                    | Clamp Lever                                                                 |  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  | <b>Material</b><br>Kunststoff,<br>glasfaserverstärkt<br>Stahl, verzinkt       | <b>Material</b><br>Plastic, glass fibre<br>reinforced steel,<br>zinc plated |                                                                                       |
|                                                                                     | Gewinde                                                                       | Thread                                                                      | M8x15mm                                                                               |
|                                                                                     | Stückzahl/Box                                                                 | Quantity/box                                                                | 10                                                                                    |
|                                                                                     | Gewicht/Stk.                                                                  | Weight/pc                                                                   | 84g                                                                                   |
|                                                                                     | Gewicht/Box                                                                   | Weight/box                                                                  | 0,84kg                                                                                |
|                                                                                     | Hinweis:<br>Für Nut 8 bitte<br>U-Scheiben<br>verwenden, wegen<br>Gewindelänge | Hint:<br>for Slot 8 kindly<br>use washers, due<br>to thread length          |                                                                                       |



**Stellfüße, Lenkrollen**  
**Feet, Castors**



**Seite/Page 36-37**

**Lenkrollen ESD**  
**Castors ESD**



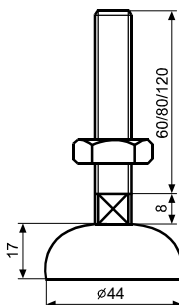
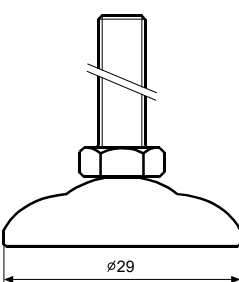
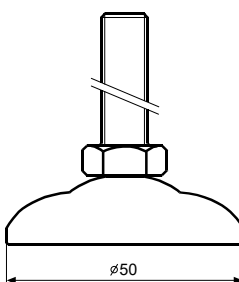
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**Transport- und Fußplatten**  
**Transport- and Base Plates**



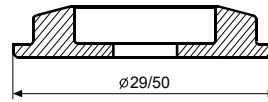
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# Stellfüße Feet

|                                                                                                   |                                                                                                         |                                                                                    | Allgemein                                                                                                                                                                         | General                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                                                                                                         |                                                                                    | <b>Anwendung</b><br>Stellfuß zum Ausgleich von Bodenunebenheiten und zur Höhenanpassung                                                                                           | <b>Application</b><br>Foot to compensate uneven floor and for height adjustment                                                                                          |
| <b>102 011 ...</b>                                                                                |                                                                                                         |                                                                                    | <b>Fuß M12 , Ø44</b>                                                                                                                                                              | <b>Feet M12, Ø44</b>                                                                  |
| M12x120: <b>008</b><br>M12x80: <b>001</b><br>M12x60: <b>002</b>                                   |                       |  | Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br>Max. Belastung<br>Schwenkbereich<br><b>Material:</b><br>Stahl, verzinkt<br>Kontermutter M12 inklusive                             | Quantity/box<br>Weight/pc<br>Weight/box<br>Max. load<br>Swivelling range<br><b>Material:</b><br>Steel, zinc plated<br>Includes locking nut M12                           |
| <b>102 011 ...</b>                                                                                |                                                                                                         |                                                                                    | <b>Anti-Rutsch-Ring Ø44</b>                                                                                                                                                       | <b>Antislip Ring Ø44</b>                                                                                                                                                 |
| <b>007</b><br> | <b>009 (ESD)</b><br> |                                                                                    | Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br><b>Material:</b><br>Polyurethan, 70-80 Shore A<br>Beständig gegen Öl und Wasser bis zu                                            | Quantity/box<br>Weight/pc<br>Weight/box<br><b>Material:</b><br>Polyurethan, 70-80 Shore A<br>Water and Oil resistant up to<br>60°C                                       |
| <b>Nur für / only for: 102 011 001, 002, 008</b>                                                  |                                                                                                         |                                                                                    |                                                                                                                                                                                   |                                                                                                                                                                          |
| <b>102 011 003</b>                                                                                |                                                                                                         |                                                                                    | <b>Fuß M8x50, Ø29</b>                                                                                                                                                             | <b>Feet M8x50, Ø29</b>                                                              |
|                |                      |                                                                                    | Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br>Max. Belastung<br>Schwenkbereich<br><b>Material:</b><br>Stahl, verzinkt<br>Glasverstärktes PA                                     | Quantity/box<br>Weight/pc<br>Weight/box<br>Max. load<br>Swivelling range<br><b>Material:</b><br>Steel, zinc plated<br>Fibreglass reinforced PA                           |
|                                                                                                   |                                                                                                         |                                                                                    | Kontermutter M8 nicht inklusive                                                                                                                                                   | Locking nut M8 not included                                                                                                                                              |
| <b>102 011 004</b>                                                                                |                                                                                                         |                                                                                    | <b>Fuß M12x80, Ø50</b>                                                                                                                                                            | <b>Feet M12x80, Ø50</b>                                                             |
|                |                      |                                                                                    | Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br>Max. Belastung<br>Schwenkbereich<br><b>Material:</b><br>Stahl, verzinkt<br>Glasverstärktes PA<br>Kontermutter M12 nicht inklusive | Quantity/box<br>Weight/pc<br>Weight/box<br>Max. load<br>Swivelling range<br><b>Material:</b><br>Steel, zinc plated<br>PA with fibreglass<br>Locking nut M12 not included |

## Stellfüße Feet

| Anti-Rutsch-Platte                                 | Antislip Plate                                 | 102 011 ...  |  |
|----------------------------------------------------|------------------------------------------------|--------------|--|
| Stückzahl/Box                                      | Quantity/box                                   | 20           |  |
| Gewicht/Stk.                                       | Weight/pc                                      | 4g/10g       |  |
| Gewicht/Box                                        | Weight/box                                     | 0,08kg/0,2kg |  |
| <b>Material:</b><br>Thermoplastisches<br>Elastomer | <b>Material:</b><br>Thermoplastic<br>elastomer |              |  |
| Beständig gegen<br>Öl und Wasser bis zu            | Water and Oil<br>resistant up to               | 60°C         |  |
| Nur für/only for: 102 011 003 & 004                |                                                |              |  |



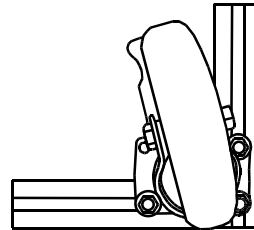
Ø29: 005

Ø50: 006

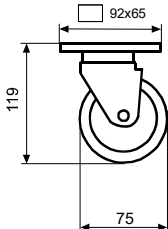


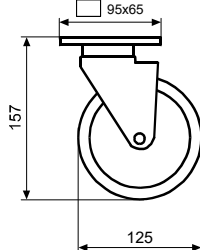
## Lenkrollen Castors

| Allgemein                                                                  | General                                                                        |  |  |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------|--|--|
| <b>Material</b><br>Rad: Polyurethan (PUR)<br>Kastanienbraun<br>Lager: TPFE | <b>Material</b><br>Wheel: Polyurethane (PUR)<br>Maroon colour<br>Bearing: TPFE |  |  |
| <b>Anwendung</b><br>Für Transportwagen                                     | <b>Application</b><br>For trolleys                                             |  |  |
| <b>Vorteile</b><br>Preiswert und montage-<br>freundlich                    | <b>Advantages</b><br>Economic and easy to mount                                |  |  |



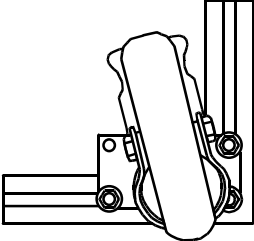
3

| Lenkrollen Ø75     |                      | Castors Ø75 |  |   | 102 021 ...                                                                                                                                                                 |
|--------------------|----------------------|-------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mit Bremse</b>  | <b>With brake</b>    |             |  |                                                                                                                                                                         |                                                                                                                                                                             |
| Stückzahl/Box      | Quantity/box         | 10          |  |                                                                                     |   |
| Gewicht/Stk.       | Weight/pc            | 840g        |  |                                                                                                                                                                         |                                                                                                                                                                             |
| Gewicht/Box        | Weight/box           | 8,4kg       |  |                                                                                                                                                                         |                                                                                                                                                                             |
| Max. Belastung/Rad | Max. load/wheel      | 110kg       |  |                                                                                                                                                                         |                                                                                                                                                                             |
| <b>Ohne Bremse</b> | <b>Without brake</b> |             |  |                                                                                                                                                                         |                                                                                                                                                                             |
| Stückzahl/Box      | Quantity/box         | 10          |  |                                                                                                                                                                         |                                                                                                                                                                             |
| Gewicht/Stk.       | Weight/pc            | 690g        |  |                                                                                                                                                                         |                                                                                                                                                                             |
| Gewicht/Box        | Weight/box           | 6,90kg      |  |                                                                                                                                                                         |                                                                                                                                                                             |
| Max. Belastung/Rad | Max. load/wheel      | 110kg       |  |                                                                                                                                                                         |                                                                                                                                                                             |

| Lenkrollen Ø125    |                      | Castors Ø125 |  |   | 102 021 ...                                                                                                                                                                 |
|--------------------|----------------------|--------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mit Bremse</b>  | <b>With brake</b>    |              |  |                                                                                                                                                                         |                                                                                                                                                                             |
| Stückzahl/Box      | Quantity/box         | 10           |  |                                                                                     |   |
| Gewicht/Stk.       | Weight/pc            | 1,1kg        |  |                                                                                                                                                                         |                                                                                                                                                                             |
| Gewicht/Box        | Weight/box           | 11kg         |  |                                                                                                                                                                         |                                                                                                                                                                             |
| Max. Belastung/Rad | Max. load/wheel      | 150kg        |  |                                                                                                                                                                         |                                                                                                                                                                             |
| <b>Ohne Bremse</b> | <b>Without brake</b> |              |  |                                                                                                                                                                         |                                                                                                                                                                             |
| Stückzahl/Box      | Quantity/box         | 10           |  |                                                                                                                                                                         |                                                                                                                                                                             |
| Gewicht/Stk.       | Weight/pc            | 930g         |  |                                                                                                                                                                         |                                                                                                                                                                             |
| Gewicht/Box        | Weight/box           | 9,3kg        |  |                                                                                                                                                                         |                                                                                                                                                                             |
| Max. Belastung/Rad | Max. load/wheel      | 150kg        |  |                                                                                                                                                                         |                                                                                                                                                                             |

| Bockrollen         |                 | Trestle Wheel |       | 102 021 ...                                                                                                                                                                 |     |
|--------------------|-----------------|---------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|                    |                 | Ø75           | Ø125  | 009                                                                                                                                                                         | 010 |
| Stückzahl/Box      | Quantity/box    | 10            | 10    |   |     |
| Gewicht/Stk.       | Weight/pc       | 650g          | 690g  |                                                                                                                                                                             |     |
| Gewicht/Box        | Weight/box      | 6,5kg         | 6,9kg |                                                                                                                                                                             |     |
| Max. Belastung/Rad | Max. load/wheel | 110kg         | 150kg |                                                                                                                                                                             |     |

## Lenkrollen ESD Castors ESD

|                                                                                                                                                                     |  | Allgemein                                                                  | General                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|   |  | <b>Material</b><br>Rad: Polyurethan (PUR)<br>Kastanienbraun<br>Lager: TPFE | <b>Material</b><br>Wheel: Polyurethane (PUR)<br>Maroon colour<br>Bearing: TPFE |
|                                                                                                                                                                     |  | <b>Anwendung</b><br>Für Transportwagen                                     | <b>Application</b><br>For trolleys                                             |
|                                                                                                                                                                     |  | <b>Vorteile</b><br>Preiswert und montage-<br>freundlich                    | <b>Advantages</b><br>Economic and easy to mount                                |

102 021 ...

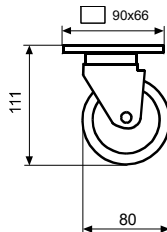
Lenkrollen Ø80

Castors Ø80



011

012

**Mit Bremse**

Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

Max. Belastung/Rad

**Ohne Bremse**

Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

Max. Belastung/Rad

**With brake**

Quantity/box

Weight/pc

Weight/box

Max. load/wheel

**Without brake**

Quantity/box

Weight/pc

Weight/box

Max. load/wheel

10

720g

7,2kg

65kg

10

610g

6,1kg

65kg

102 021 ...

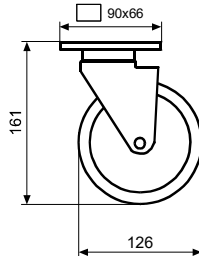
Lenkrollen Ø126

Castors Ø126



013

014

**Mit Bremse**

Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

Max. Belastung/Rad

**Ohne Bremse**

Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

Max. Belastung/Rad

**With brake**

Quantity/box

Weight/pc

Weight/box

Max. load/wheel

**Without brake**

Quantity/box

Weight/pc

Weight/box

Max. load/wheel

10

880g

8,8kg

80kg

10

770g

7,7kg

80kg

102 021 ...

Bockrollen

Trestle Wheel

Ø80: 015

Ø126: 016



Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

Max. Belastung/Rad

Quantity/box

Weight/pc

Weight/box

Max. load/wheel

Ø80

10

470g

4,7kg

65kg

Ø126

10

620g

6,2kg

80kg

## Transport- und Fußplatten Transport- and Base Plates

| Allgemein | General |
|-----------|---------|
|-----------|---------|

### Material

Aluminiumdruckguss

### Material

Die cast Aluminium

### Anwendung

Zur Aufnahme von Stellfüßen,  
Rollen, Haken oder ähnlichen  
Bauteilen

### Application

To mount leveling feet, rollers,  
hooks or similar components



### Transport- und Fußplatte, rechteckig

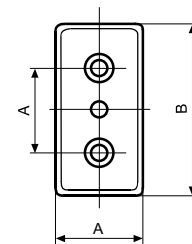
### Transport- and Base Plate rectangular

102 037 ...

Stückzahl/Box

Quantity/box

10



3

| Profiltyp<br>Profile type | Bestellnr.<br>Order Code<br>102 037 ... | Bohrungs Ø<br>Bore Ø | Gewinde<br>M | A    | B    | Höhe<br>Height | Gewicht / St<br>Weight / Pc | Gewicht / Box<br>Weight / Box |
|---------------------------|-----------------------------------------|----------------------|--------------|------|------|----------------|-----------------------------|-------------------------------|
| 30x60                     | 001                                     | 9mm                  | M8           | 30mm | 60mm | 12mm           | 42g                         | 0,42kg                        |
| 30x60                     | 002                                     | 9mm                  | M12          | 30mm | 60mm | 12mm           | 40g                         | 0,40kg                        |
| 40x80                     | 003                                     | 9mm                  | M12          | 40mm | 80mm | 16mm           | 88g                         | 0,88kg                        |
| 45x90                     | 004                                     | 9mm                  | M12          | 45mm | 80mm | 16mm           | 108g                        | 1,08kg                        |

### Transport- und Fußplatte, rechteckig

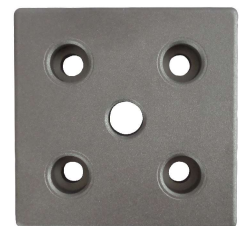
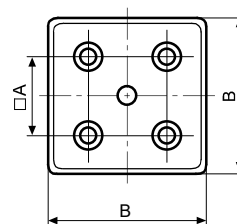
### Transport- and Base Plate rectangular

102 037 ...

Stückzahl/Box

Quantity/box

10



| Profiltyp<br>Profile type | Bestellnr.<br>Order Code<br>102 037 ... | Bohrungs Ø<br>Bore Ø | Gewinde<br>M | A    | B    | Höhe<br>Height | Gewicht / St<br>Weight / Pc | Gewicht / Box<br>Weight / Box |
|---------------------------|-----------------------------------------|----------------------|--------------|------|------|----------------|-----------------------------|-------------------------------|
| 80x80                     | 005                                     | 9mm                  | M12          | 40mm | 80mm | 16mm           | 194g                        | 1,94kg                        |
| 80x80                     | 006                                     | 9mm                  | M16          | 40mm | 80mm | 16mm           | 188g                        | 1,88kg                        |
| 90x90                     | 007                                     | 9mm                  | M12          | 45mm | 90mm | 16mm           | 228g                        | 2,28kg                        |
| 90x90                     | 008                                     | 9mm                  | M16          | 45mm | 90mm | 16mm           | 220g                        | 2,20kg                        |

## Notizen / Notes



**Aluminium-Scharniere**  
**Aluminium Hinges**



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**Kunststoff-Scharniere**  
**Plastic Hinges**



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**Griffe**  
**Handles**



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**Kugelschnäpper**  
**Ball catch / Magnet catch**



Seite/Page 45

**Türschloss**  
**Slam latch**



Seite/Page 46

**Türöffner für Türschloss**  
**Door opener for Slam Latch**



Seite/Page 46

**Gleiter**  
**Gleiders**



Seite/Page 47

**Rolle**  
**Roller**



Seite/Page 48

**Einfass-, Gummiprofile**  
**Panel-, rubber profiles**



Seite/Page 49

**Uniblöcke**  
**Uniblocks**



Seite/Page 50

**Glashalter**  
**Glass holder**

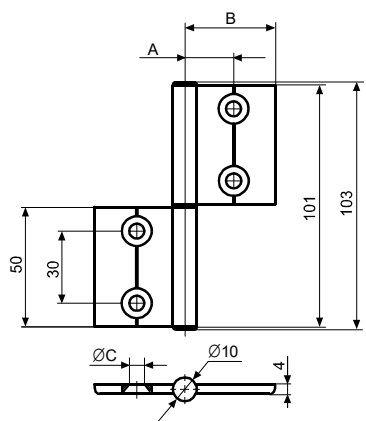


Seite/Page 50

Aluminium-Scharniere  
Aluminium Hinges

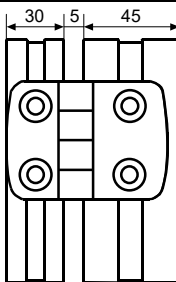
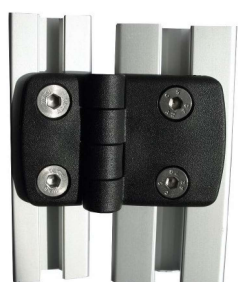
| Allgemein                                                                         |                                                                                  | General                                                                               |  |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
|  | <b>Material</b><br>Flügel: Aluminium, eloxiert<br>Stift: Edelstahl<br>Spalt: 5mm | <b>Material</b><br>Wing: Aluminium, anodized<br>Bolt: Stainless steel<br><br>Gap: 5mm |  |
|                                                                                   | <b>Anwendung</b><br>Für Türen aus Profilrahmen oder Flächenelementen             | <b>Application</b><br>For doors made of profiles or panels                            |  |
|                                                                                   | <b>Vorteile</b><br>Aushängbar, verdeckte Schrauben, optisch ansprechend, modular | <b>Advantages</b><br>Detachable, hidden screws, appealing design, modular             |  |
|                                                                                   |                                                                                  |                                                                                       |  |

| 102 017 ...                                                                         | Scharnierkomponenten                                              | Hinge Components                                                    |    |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Stückzahl/Box<br>Last max.<br>Bitte Komponenten einzeln bestellen | Quantity/box<br>Load max.<br>Kindly order each component separately | 10<br>150N                                                                                                                                                                                                                                                  |
|                                                                                     |                                                                   |                                                                     |                                                                                                                                                                                                                                                             |



| Profiltyp<br>Profile type | Bestellnr.<br>Order Code<br>102 017... | A      | B    | ØC    | Gewicht / St<br>Weight / Pc | Gewicht / Box<br>Weight / Box |
|---------------------------|----------------------------------------|--------|------|-------|-----------------------------|-------------------------------|
| 20x20                     | 007                                    | 15mm   | 22mm | 5,3mm | 15g                         | 0,15kg                        |
| 30x30                     | 008                                    | 20mm   | 32mm | 6,4mm | 20g                         | 0,20kg                        |
| 40x40                     | 009                                    | 25mm   | 42mm | 6,4mm | 25g                         | 0,25kg                        |
| 45x45                     | 010                                    | 27,5mm | 47mm | 6,4mm | 28g                         | 0,28kg                        |
| 60x60                     | 011                                    | 35mm   | 62mm | 6,4mm | 36g                         | 0,36kg                        |
| Stift/Bolt                | 012                                    |        |      |       | 12g                         | 0,12kg                        |
| Kappe/Cap                 | 013                                    |        |      |       | 0,15g                       | 0,015kg                       |

## Kunststoff-Scharniere Plastic Hinges

| Allgemein                                                                                                                                                                                                           | General                                                                                                                                                                                                    |                                                                                    |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Material</b><br>Flügel: glasfaserverstärktes PA, schwarz<br>Stift: Edelstahl<br>Spalt: 5mm<br><b>Anwendung</b><br>Für Türen aus Profilrahmen oder Flächenelementen<br><b>Vorteile</b><br>Führungsnase entfernbar | <b>Material</b><br>Wing: Fibreglas reinforced PA<br>Black<br>Bolt: Stainless steel<br>Gap: 5mm<br><b>Application</b><br>For doors made of profiles or panels<br><b>Advantages</b><br>Guiding lug removable |  |  |

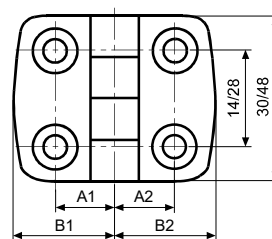
### Scharnier 20/20 & 30/30 Hinge 20/20 & 30/30

102 017 ...

BestellNr./Ordercode: 20/20: 006  
BestellNr./Ordercode: 30/30: 001

**Nur für 30/30**      **Only for 30/30**  
 Zubehör nicht inkl.:      Accessories not included:  
 4 x Senkkopfschraube      4 x Countersunkscrew  
 4 x Hammermutter      4 x T-Nut

102 009 003  
102 010 006



Details: siehe unten  
Details: see below



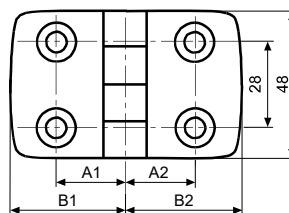
### Scharnier 40/40 & 45/45 Hinge 40/40 & 45/45

102 017 ...

BestellNr./Ordercode: 40/40: 002  
BestellNr./Ordercode: 45/45: 003

Zubehör nicht inkl.:      Accessories not included:  
 4 x Senkkopfschraube      4 x Countersunkscrew  
 4 x Hammermutter      4 x T-Nut

102 009 004  
102 010 009



Details: siehe unten  
Details: see below



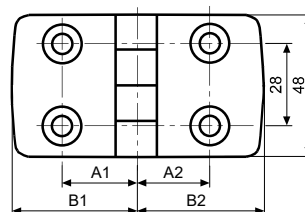
### Scharnier 40/30 & 45/30 Hinge 40/30 & 45/30

102 017 ...

BestellNr./Ordercode: 40/30: 005  
BestellNr./Ordercode: 45/30: 004

Zubehör nicht inkl.:      Accessories not included:  
 2 x Senkkopfschraube      2 x Countersunkscrew M6x14  
 2 x Hammermutter      2 x T-Nut Slot 8 M6  
 2 x Senkkopfschraube      2 x Countersunkscrew M6x18  
 2 x Hammermutter      2 x T-Nut Slot 10 M6

102 009 003  
102 010 006  
102 009 004  
102 010 009

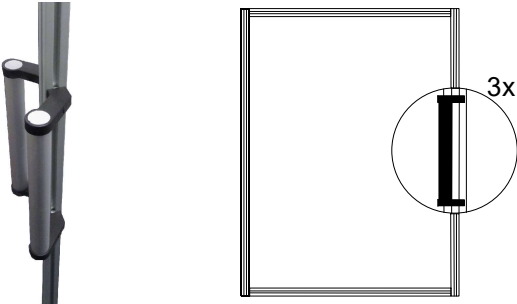
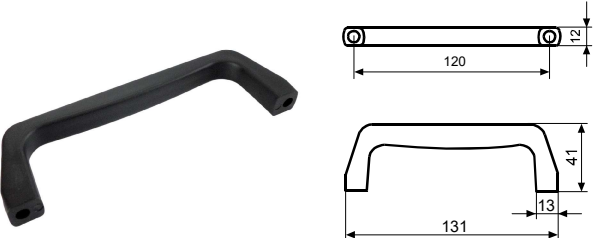
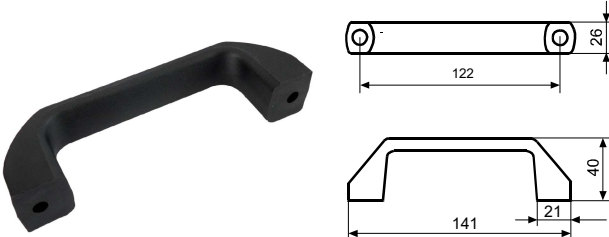
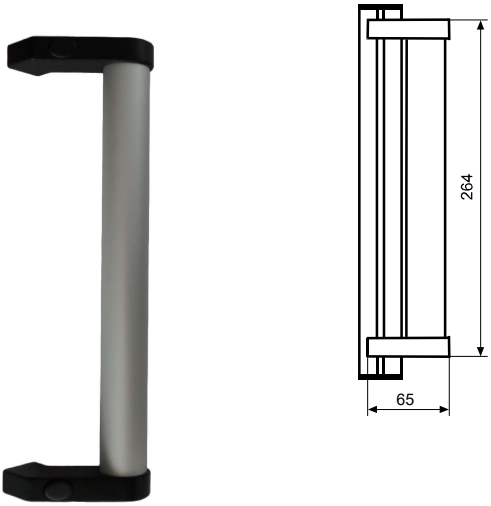


Details: siehe unten  
Details: see below



| Artikel                 | Article                 | 20/20   | 30/30   | 40/30   | 45/30   | 40/40   | 45/45   |
|-------------------------|-------------------------|---------|---------|---------|---------|---------|---------|
| BestellNr.: 102 017 ... | Order code: 102 017 ... | 006     | 001     | 005     | 004     | 002     | 003     |
| Stückzahl/Box           | Quantity/box            | 10      | 10      | 10      | 10      | 10      | 10      |
| Gewicht/Stk.            | Weight/pc               | 7,5g    | 33g     | 39g     | 41g     | 38,5g   | 43g     |
| Gewicht/Box             | Weight/box              | 0,075kg | 0,330kg | 0,390kg | 0,410kg | 0,385kg | 0,430kg |
| A1                      | A1                      | 11,5mm  | 17,5mm  | 22,5mm  | 25mm    | 22,5mm  | 25mm    |
| A2                      | A2                      | 11,5mm  | 17,5mm  | 17,5mm  | 17,5mm  | 22,5mm  | 25mm    |
| B1                      | B1                      | 19,5mm  | 30mm    | 40mm    | 45mm    | 40mm    | 45mm    |
| B2                      | B2                      | 19,5mm  | 30mm    | 30mm    | 30mm    | 40mm    | 45mm    |

Griffe  
Handles

|                                                                                     |  | Allgemein                                                                         | General                                                                               |
|-------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    |  | <b>Anwendung</b><br>Türen, Klappen                                                | <b>Application</b><br>Doors, flaps                                                    |
|                                                                                     |  | <b>Vorteil</b><br>Frontseitige Montage                                            | <b>Advantage</b><br>Front side mounting                                               |
| 102 018 001                                                                         |  | <b>Handgriff, leicht</b>                                                          | <b>Handle, light</b>                                                                  |
|    |  | <b>Material</b><br>Kunststoff PA, Glasfaserverstärkt, schwarz                     | <b>Material</b><br>Fibreglass reinforced PA, black                                    |
|                                                                                     |  | <b>Stückzahl/Box</b><br>Gewicht/Stk.<br>Gewicht/Box                               | <b>Quantity/box</b><br>Weight/pc<br>Weight/box                                        |
|                                                                                     |  | <b>Befestigungssatz nicht inkl.:</b><br>2 x Schraube M5x16<br>2 x Hammermutter M5 | <b>Mounting kit not incl.:</b><br>2 x Screw M5x16<br>2 x T Nut M5                     |
|                                                                                     |  |                                                                                   |    |
|                                                                                     |  |                                                                                   | <b>102 010 005</b><br><b>102 010 008</b>                                              |
| 102 018 002                                                                         |  | <b>Handgriff</b>                                                                  | <b>Handle</b>                                                                         |
|  |  | <b>Material</b><br>Kunststoff PA, Glasfaserverstärkt, schwarz                     | <b>Material</b><br>Fibreglass reinforced PA, black                                    |
|                                                                                     |  | <b>Stückzahl/Box</b><br>Gewicht/Stk.<br>Gewicht/Box                               | <b>Quantity/box</b><br>Weight/pc<br>Weight/box                                        |
|                                                                                     |  | <b>Befestigungssatz nicht inkl.:</b><br>2 x Schraube M5x20<br>2 x Hammermutter M5 | <b>Mounting kit not incl.:</b><br>2 x Screw M5x20<br>2 x T Nut M5                     |
|                                                                                     |  |                                                                                   |  |
|                                                                                     |  |                                                                                   | <b>102 010 005</b><br><b>102 010 008</b>                                              |
| 102 018 003                                                                         |  | <b>Designhandgriff</b>                                                            | <b>Design Handle</b>                                                                  |
|  |  | <b>Stückzahl/Box</b><br>Gewicht/Stk.                                              | <b>Quantity/box</b><br>Weight/pc                                                      |
|                                                                                     |  | <b>Material</b><br>Aluminium, Kunststoff                                          | <b>Material</b><br>Aluminium, plastic                                                 |
|                                                                                     |  | <b>Farbe</b><br>Aluminium/schwarz                                                 | <b>Colour</b><br>Aluminium/black                                                      |
|                                                                                     |  | <b>Vorteile</b><br>Ästhetisches Design, ergonomisch bei Einsatz für Doppeltüren   | <b>Advantages</b><br>Aesthetic design, ergonomic for operation of double doors        |
|                                                                                     |  | <b>Befestigungssatz nicht inkl.:</b><br>2 x Schraube M6x25<br>2 x Hammermutter M6 | <b>Mounting kit not incl.:</b><br>2 x Screw M6x25<br>2 x T Nut M6                     |
|                                                                                     |  |                                                                                   |  |
|                                                                                     |  |                                                                                   | <b>102 010 006</b><br><b>102 010 009</b>                                              |

## Kugelschnäpper/ Magnetschnäpper Ball Catch/ Magnet Catch

| Allgemein | General |
|-----------|---------|
|-----------|---------|

### Material

Glasfaserverstärktes PA,  
schwarz

### Anwendung

Schnäpper für Türen  
und Klappen

### Vorteile

Einfache Handhabung,  
preiswert

### Material

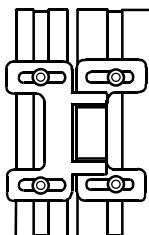
Fibreglass reinforced PA,  
black

### Application

Catches for doors  
and flaps

### Advantages

Easy-to-use, inexpensive



| Kugelschnäpper | Ball Catch |   | 102 020 001 |
|----------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|----------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|

Stückzahl/Box

Quantity/box

10

Gewicht/Stk.

Weight/pc

50g

Gewicht/Box

Weight/box

0,500kg

Befestigungssatz  
nicht inkl.:

Mounting kit  
not incl.:

4 x Schraube M5x16

4 x Screw M5x16

4 x Hammermutter M5

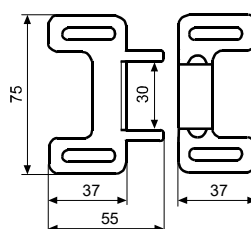
4 x T Nut M5



102 010 005



102 010 008



| Magnetschnäpper | Magnet Catch |  | 102 020 003 |
|-----------------|--------------|--|-------------|
|-----------------|--------------|--|-------------|

Stückzahl/Box

Quantity/box

10

Gewicht/Stk.

Weight/pc

36g

Gewicht/Box

Weight/box

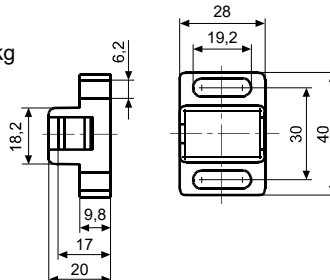
0,360kg

An Stärke des Flächen-  
elementes anpassbar

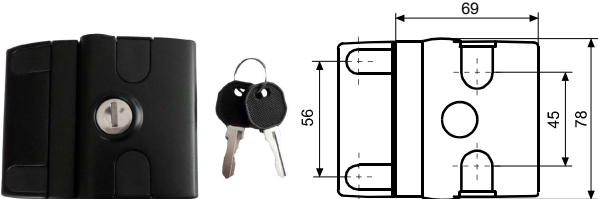
Adjustable to the  
thickness of the panels

Halteplatte: Flachkopf-  
schraube DIN 921-M5x6

Counter plate: Pan head  
screw DIN 921-M5x6

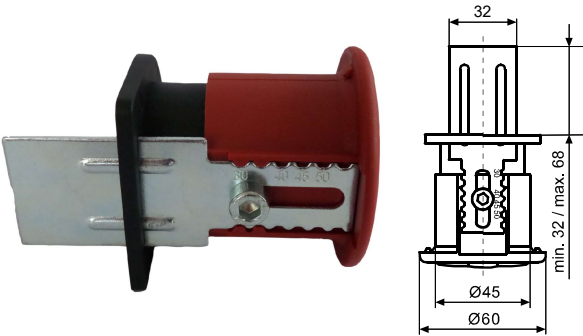


## Türschloss Slam Latches

|                                                                                   | Allgemein                                                                                                                     | General                                                                                 |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|  | <b>Material</b><br>Aluminiumdruckguss,<br>pulverbeschichtet, schwarz                                                          | <b>Material</b><br>Die cast aluminium,<br>powder coated, black                          |
|                                                                                   | <b>Anwendung</b><br>Leichtes und sicheres<br>Schliessen von Türen und<br>Klappen. Zum Öffnen einfach<br>an der Lasche ziehen. | <b>Application</b><br>To securely lock doors and flaps.<br>To open just pull the latch. |
|                                                                                   | <b>Vorteile</b><br>Sehr stabil und optisch modern<br>Frontmontage (Langlöcher)<br>ohne Bohren                                 | <b>Advantages</b><br>Very robust and modern design<br>front mounting, no drilling       |
| 102 020 005                                                                       | <b>Türschloss Gen 2</b>                                                                                                       | <b>Slam latch Gen 2</b>                                                                 |
|  | Stückzahl/Box<br>Gewicht/Stk.                                                                                                 | Quantity/box<br>Weight/pc                                                               |
|                                                                                   | Zubehör nicht inkl.                                                                                                           | Accessories not incl.                                                                   |
|                                                                                   | <b>Optional:</b><br>Mit verschieden<br>Schlüsseln                                                                             | <b>Optional:</b><br>With different keys                                                 |
|                                                                                   | Mit gleichen<br>Schlüsseln                                                                                                    | With same keys                                                                          |
|                                                                                   |                                                                                                                               | <b>102 020 006</b><br><br><b>102 020 007</b>                                            |

## Türöffner für Türschloss Door opener for Slam Latch

4

|                                                                                     | Allgemein                                                                                           | General                                                                                                 |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|  | <b>Material</b><br>Kunststoff PA6,<br>glasfaserverstärkt<br>signalroter Knopf                       | <b>Material</b><br>Nylon PA,<br>glass fibre reinforced<br>signal red push button                        |
|                                                                                     | <b>Anwendung</b><br>Notentriegelung<br>für Türschloss:<br>102 020 005<br>102 020 006<br>102 020 007 | <b>Application</b><br>Emergency release<br>for slam latch:<br>102 020 005<br>102 020 006<br>102 020 007 |
| 102 020 008                                                                         | <b>Türöffner</b>                                                                                    | <b>Door Opener</b>                                                                                      |
|  | Stückzahl/Box<br>Gewicht/Stk.                                                                       | Quantity/box<br>Weight/pc                                                                               |
|                                                                                     | Zubehör nicht inkl.                                                                                 | Accessories not incl.                                                                                   |

## Gleiter Glider

| Allgemein | General |
|-----------|---------|
|-----------|---------|

**Material**  
Kunststoff POM  
Weiß

**Anwendung**  
Schiebetür

**Material**  
Plastic POM  
White

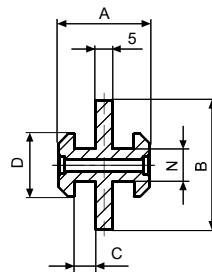
**Application**  
Sliding Door



| Gleiter 8, Gleiter 10 | Glider 8, Glider 10 |   | 102 019 ... |
|-----------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|-----------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|

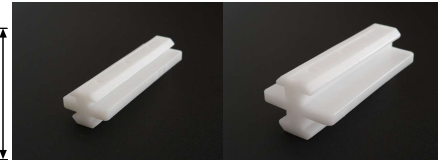
|               |              |             |
|---------------|--------------|-------------|
| Stückzahl/Box | Quantity/box | 10          |
| Gewicht/Stk.  | Weight/pc    | 26/53g      |
| Gewicht/Box   | Weight/box   | 0,26/0,53kg |
| Länge         | Length       | 80mm        |

| 102 019... | A      | B    | C     | D    | N    |
|------------|--------|------|-------|------|------|
| 003        | 18mm   | 26mm | 3mm   | 15mm | 8mm  |
| 004        | 27,6mm | 39mm | 6,5mm | 19mm | 10mm |



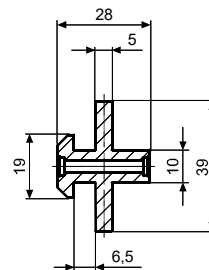
 : 003

 : 004



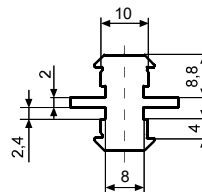
| Gleiter 10 offen | Glider 10 open |  | 102 019 005 |
|------------------|----------------|-------------------------------------------------------------------------------------|-------------|
|------------------|----------------|-------------------------------------------------------------------------------------|-------------|

|               |              |        |
|---------------|--------------|--------|
| Stückzahl/Box | Quantity/box | 10     |
| Gewicht/Stk.  | Weight/pc    | 47g    |
| Gewicht/Box   | Weight/box   | 0,47kg |
| Länge         | Length       | 80mm   |



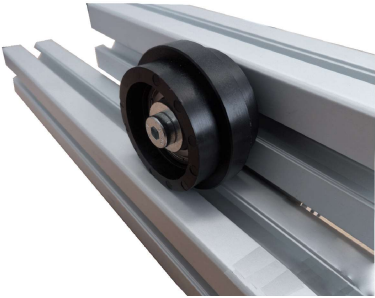
| Gleiter 8/10 | Glider 8/10 |   | 102 019 006 |
|--------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|--------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|

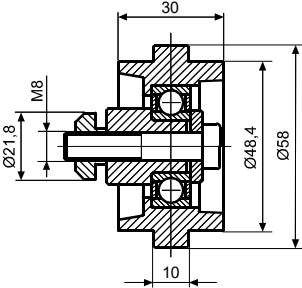
|               |              |        |
|---------------|--------------|--------|
| Stückzahl/Box | Quantity/box | 10     |
| Gewicht/Stk.  | Weight/pc    | 10g    |
| Gewicht/Box   | Weight/box   | 0,10kg |
| Länge         | Length       | 60mm   |





Rolle  
Roller

|                                                                                   | Allgemein                                                                          | General                                                                                |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|  | <b>Material</b><br>Kunststoff PA,<br>glaskugerverstärkt                            | <b>Material</b><br>Nylon PA,<br>glass ball reinforced                                  |
|                                                                                   | Schwarz<br>ESD                                                                     | Black<br>ESD                                                                           |
|                                                                                   | <b>Anwendung</b><br>Zur Führung in einer<br>Profilnut 10mm<br>stehend oder hängend | <b>Application</b><br>For guidance in the profile<br>Slot 10 mm<br>standing or hanging |

| 102 019 007                                                                        | Rolle Ø48              | Roller Ø48           |  |
|------------------------------------------------------------------------------------|------------------------|----------------------|-------------------------------------------------------------------------------------|
|  | Stückzahl/Box          | Quantity/box         | 10                                                                                  |
|                                                                                    | Gewicht/Stk.           | Weight/pc            | 155g                                                                                |
|                                                                                    | Gewicht/Box            | Weight/box           | 1,5kg                                                                               |
|  | Zubehör inkl.:         | Accessories incl.:   |                                                                                     |
|                                                                                    | 1 x Schraube M8x40     | 1 x Bolt M8x40       |                                                                                     |
|                                                                                    | 1 x Hammermutter 10 M8 | 1 x T-Nut Slot 10 M8 |                                                                                     |
|                                                                                    | 1 x U- Scheibe         | 1 x Washer           |                                                                                     |

## Einfass-, Gummiprofile Panel-, rubber profiles

### Allgemein

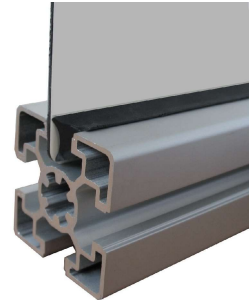
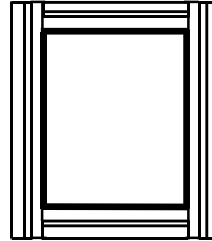
### General

#### Anwendung:

Zum Einfassen von  
Flächenelementen

#### Application:

To insert panels



### Einfassprofil

### Panel profile



102 013 ...

#### Material

PP

#### Material

PP

Stückzahl/Box

Quantity/box

100

Gewicht/Stk.

Weight/pc

90g / 130g

Gewicht/Box

Weight/box

9kg / 13kg

Länge

Length

2m/pc

Für Wandstärke

For panel thickness

2-5mm

für Wandstärke:  
for panel thickness:



006



001

3 - 5

2 - 4



### Gummiprofil A/B

### Rubber profile A/B



102 013 ...

Material

Material

Gummi/Rubber

A: 002

B: 003

Gewicht/m (A/B)

Weight/m (A/B)

113/67g

für Wandstärke:  
for panel thickness:

Gewicht/Rolle (A/B)

Weight/roll (A/B)

17kg / 10kg

Liefereinheit

Delivery unit

150m

Für Wandstärke

For panel thickness

2-5mm

#### Vorteil

Einfache, nachträgliche  
Montage

#### Advantage

Easy subsequent mounting

Typ  
Type



A

2 - 3

B

4 - 5

2 - 3



4

### Gummiprofil C/D

### Rubber profile C/D



102 013 ...

Material

Material

Gummi/Rubber

C: 004

D: 005

Gewicht/m (C/D)

Weight/m (C/D)

20/33g

für Wandstärke:  
for panel thickness:

Gewicht/Rolle (C/D)

Weight/roll (C/D)

3kg / 5kg

Liefereinheit

Delivery unit

150m / 300m

Für Wandstärke

For panel thickness

4-7mm

#### Vorteil

Einfache, nachträgliche  
Montage

#### Advantage

Easy subsequent mounting

Typ  
Type



C

6

4

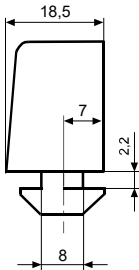
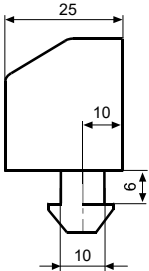
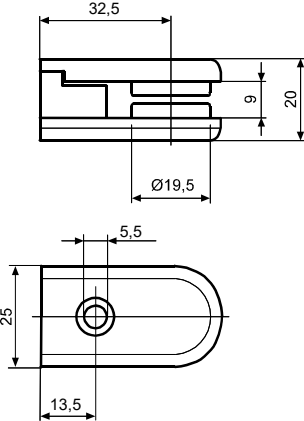
D

7

5



Uniblöcke, Glashalter  
Uniblocks, Glass Holder

|                                                                                   |                                                                                                                                                                         | Allgemein                                                                                                                                                                                                                                       | General                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                                                                                                                                                                         | <b>Material</b><br>Block: glasfaserverstärktes PA, schwarz<br>Mutter: M6, Stahl verzinkt<br><b>Anwendung</b><br>Einfache Befestigung von Flächenelementen an Profilen. Einfach in die Nut einsetzen und 90° drehen. Mutter ist höhenverstellbar | <b>Material</b><br>Block: fibreglas reinforced PA, black<br>Nut: M6; steel, zinc coated<br><b>Application</b><br>To mount a panel onto the profile, position is adjustable. Just insert into the slot and turn 90°. Nut is height adjustable                                                |
| 102 012 001                                                                       |      | <b>Uniblock 8</b><br>Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box                                                                                                                                                                               | <b>Uniblock 8</b><br>Quantity/box<br>Weight/pc<br>Weight/box<br>                                                                                                                                         |
| 102 012 002                                                                       |   | <b>Uniblock 10</b><br>Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box                                                                                                                                                                              | <b>Uniblock 10</b><br>Quantity/box<br>Weight/pc<br>Weight/box<br>                                                                                                                                      |
| 102 039 001                                                                       |   | <b>Glashalter Set</b><br>Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br>Zinkdruckguss<br>1) pulverbeschichtet alufarbig<br>Zubehör inkl.:<br>1 x Schraube M5x16<br>5 x Distanzgummi für Scheiben von 2-9mm                                     | <b>Glass Holder Set</b><br>Quantity/box<br>Weight/pc<br>Weight/box<br>Die Cast zinc<br>1) powder coated alu color<br>Accessories incl.:<br>1 x screw M5x16<br>5 x Distance rubber for panels 2-9mm<br> |

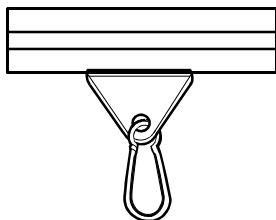
**Werkzeughänger**  
**Tool hanger**

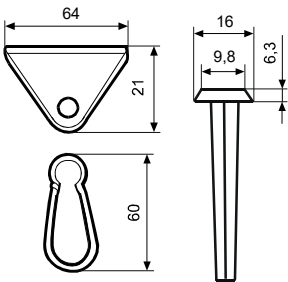


**LED Arbeitsleuchten**  
**LED Workstation Lamps**



## Werkzeughänger, Arbeitsleuchten Tool hanger, Workstation Lamps

|                                                                                                                                                                     |  | Allgemein                                                                                                                 | General                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|   |  | <b>Anwendung</b><br>WKZ-Hänger für verschiebbare Werkzeugaufhängungen mit Option zur sicheren Fixierung in einer Position | <b>Application</b><br>Sliding tool hanger for balancers with option to lock into fixed position |

| 102 019 002                                                                                                                                                                                                                                             |  | Werkzeughänger                                                    | Tool hanger                                                      |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    |  | Stückzahl/Box                                                     | Quantity/box                                                     | 20                                                                                  |
|                                                                                                                                                                                                                                                         |  | Gewicht/Setzen                                                    | Weight/set                                                       | 36g                                                                                 |
|                                                                                                                                                                                                                                                         |  | Gewicht/Box                                                       | Weight/box                                                       | 0,72kg                                                                              |
|                                                                                                                                                                                                                                                         |  | <b>Material</b><br>Polyoxymethylen (POM), schwarz<br>Haken: Stahl | <b>Material</b><br>Polyoxymethylene (POM), black;<br>Hook: Steel |                                                                                     |
|                                                                                                                                                                                                                                                         |  | <b>Vorteile</b><br>Preisgünstig und einfach                       | <b>Advantages</b><br>Inexpensive and easy-to-use                 |                                                                                     |

## LED Arbeitsleuchten LED Workstation Lamps

Arbeit / Workstation Lamp

102 022 ...



|                                                   |                                                                                                                                            |                  |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>Leistung / Power</b>                           | <b>22W</b>                                                                                                                                 | <b>11W</b>       |
| Artikelnr / Order code                            | 008                                                                                                                                        | 009              |
| <b>Länge / Length</b>                             | <b>900mm</b>                                                                                                                               | <b>500mm</b>     |
| Breite. / Width                                   | 45mm                                                                                                                                       |                  |
| <b>Höhe / Height</b>                              | <b>65mm</b>                                                                                                                                |                  |
| Lichtstrom / Luminous flux                        | ~3150lm                                                                                                                                    | 1575lm           |
| <b>ISOLUX 1m Abstand / Distance</b>               | <b>&gt;1000lx</b>                                                                                                                          | <b>&gt;650lx</b> |
| Gewicht / Weight                                  | 1,65kg                                                                                                                                     | 0,85kg           |
| <b>Anschlusswerte / Connected load</b>            | <b>24 VDC ± 10%</b>                                                                                                                        |                  |
| Lichtverteilung / Light distribution              | direkt / direct                                                                                                                            |                  |
| <b>Entblendung / Glare-free</b>                   | <b>Prismenabdeckung / Prism Cover</b>                                                                                                      |                  |
| Abstrahlwinkel / Beam angle                       | 100°                                                                                                                                       |                  |
| <b>Lichtfarbe / Light color</b>                   | <b>5200-5700K</b>                                                                                                                          |                  |
| Farbwiedergabe (Ra) / Color rendering             | Ra > 85                                                                                                                                    |                  |
| <b>Schutzart / System of protection</b>           | <b>IP40</b>                                                                                                                                |                  |
| Schutzklasse / Class of protection                | III                                                                                                                                        |                  |
| <b>Betriebstemperatur / Operating temperature</b> | <b>-10°C bis + 50°C / -10°C to + 50°C</b>                                                                                                  |                  |
| Lebensdauer / Lifetime (L70 / B10)                | >60.000 Betriebsstunden / Operating hours                                                                                                  |                  |
| <b>Leuchtengehäuse / Luminaire body</b>           | <b>Aluminium</b>                                                                                                                           |                  |
| Netzanschluss / Main supply                       | M12 Sensorstecker (A-codiert) / M12 sensor connector (A-coded)                                                                             |                  |
| <b>Befestigung / Fastening</b>                    | <b>Verschrauben mithilfe von Nutensteinen an / Unter T-Nute- Profile /<br/>Screw connection using slot nuts on / under T-slot profiles</b> |                  |
| Risikogruppe / Risk group (DIN EN 62471)          | Freie Gruppe / Free group                                                                                                                  |                  |
| <b>Dimmbar / Dimmable</b>                         | <b>Ja / Yes</b>                                                                                                                            |                  |

**LED Arbeitsleuchten**  
**LED Workstation Lamps**

102 022 ...

Arbeit / Workstation Lamp

|     |                            |                              |                            |
|-----|----------------------------|------------------------------|----------------------------|
| 010 | <b>Netzgerät</b>           | <b>Power Supply</b>          |                            |
|     | Eingang                    | Input                        | 100-240 V AC 50-60Hz       |
|     | <b>Ausgang</b>             | <b>Output</b>                | <b>24VDC / 1,5 A / 36W</b> |
| 011 | <b>Y-Kabel</b>             | <b>Y-Cable</b>               |                            |
|     | für 2 x 11W Arbeitsleuchte | for 2 x 11W Workstation lamp |                            |
| 012 | <b>Dimmer</b>              | <b>Dimmer</b>                |                            |
|     | für 1 x 22W oder 2 x 11W   | for 1 x 22W or 2 x 11W       |                            |
|     | <b>nicht für 1 x 11W</b>   | <b>not for 1 x 11W</b>       |                            |



**Hammerschrauben, Flanschmuttern  
T Bolts, Flange Nuts**



**Seite/Page 56**

**Hammermuttern  
T Nuts**



**Seite/Page 57**

**Nutensteine, Nutensteine mit Feder  
T Slot nuts, Roll-in T-Slot nuts**



**Seite/Page 58**

**Schrauben  
Screws**



**Seite/Page 59**

**Kabelbinderblöcke  
Cable Binders**



**Seite/Page 59**

**Gewindebuchsen  
Self Tapping Bushes**



**Seite/Page 60**

**Kabelkanalfix  
Cable Canal Fixtures**



**Seite/Page 60**

**Rollenhalter  
Roller Fixtures**



**Seite/Page 60**

## Befestigungs-, Installationsmaterial Fixing-, Installation Material

Allgemein

General

**Material**

Stahl, verzinkt

**Anwendung**

M8x20:

Winkel 40, Fundamentwinkel

M8x25:

Winkel 45x45, 40x80, 45x90, 90x90

**Material**

Steel, zinc plated

**Application**

M8x20:

Bracket 40, floor bracket

M8x25:

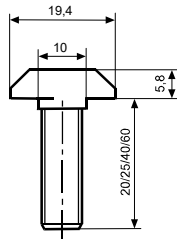
Bracket 45x45, 40x80, 45x90, 90x90

102 010 ...

M8x25: 001



M8x20: 002



M8x30: 023

M8x40: 024

M8x60: 025

**Hammerschraube 10****M8x20**

Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

Für Winkel: 40x40, Fundamentwinkel

**M8x25**

Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

Für Winkel: 45x45, 40x80, 45x90, 90x90

**M8x30**

Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

**M8x40**

Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

**M8x60**

Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

**T Bolt 10****M8x20**

Quantity/box

Weight/pc

Weight/box

For Bracket: 40x40, Floormounting Bracket

**M8x25**

Quantity/box

Weight/pc

Weight/box

For brackets: 45x45, 40x80, 45x90, 90x90

**M8x30**

Quantity/box

Weight/pc

Weight/box

**M8x40**

Quantity/box

Weight/pc

Weight/box

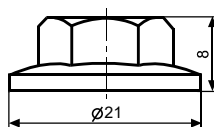
**M8x60**

Quantity/box

Weight/pc

Weight/box

102 010 003

**Flanschmutter M8**

Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

Klasse

Schlüsselweite

**Anwendung:**

Zur Verbindung Hammerschraube/Winkel an ein Profil

**Flange Nut M8**

Quantity/box

Weight/pc

Weight/box

Class

Wrench size

**Application:**

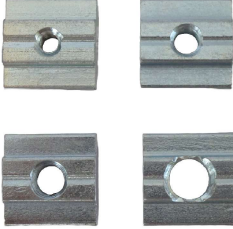
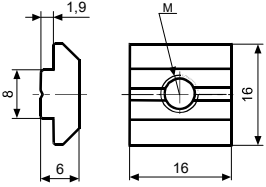
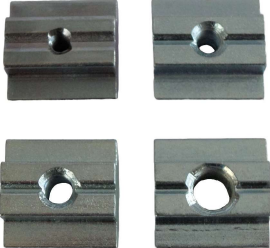
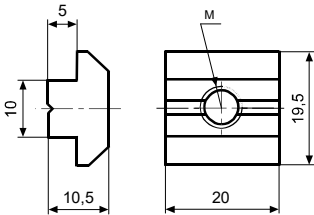
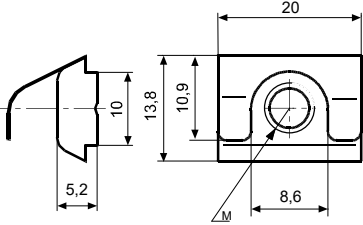
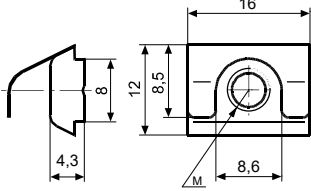
For fixing T bolt/bracket onto a profile



## Befestigungs-, Installationsmaterial Fixing-, Installation Material

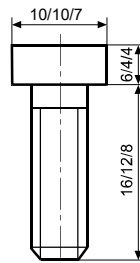
| Allgemein                                                                                 |                                                  | General                                                                                   |                                                                                                                         |
|-------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Material</b><br>Stahl, verzinkt                                                        |                                                  | <b>Material</b><br>Steel, zinc plated                                                     |                                                                                                                         |
| <b>Anwendung</b><br>Montage von Elementen an Profile. In geschlossenen Rahmen einsetzbar. |                                                  | <b>Application</b><br>To fix components to profiles. Can be inserted into a closed frame. |                                                                                                                         |
| <b>Vorteile</b><br>Sichere, elektrisch leitfähige Verbindung                              |                                                  | <b>Advantages</b><br>Safe and conductive connection                                       |                                                                                                                         |
|                                                                                           |                                                  |                                                                                           |                                                                                                                         |
| <b>Hammermutter 6</b>                                                                     | <b>T Nut 6</b>                                   |                                                                                           | <b>102 010 018</b>                                                                                                      |
| Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br>Klasse                                    | Quantity/box<br>Weight/pc<br>Weight/box<br>Class | 100<br>max 2g<br>max 0,2kg<br>8                                                           |                                                                                                                         |
| <b>Hammermutter 8</b>                                                                     | <b>T Nut 8</b>                                   |                                                                                           | <b>102 010 ...</b>                                                                                                      |
| Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br>Klasse                                    | Quantity/box<br>Weight/pc<br>Weight/box<br>Class | 100<br>3,8 - 3,9g<br>0,38 - 0,39kg<br>8                                                   |                                                                                                                         |
|                                                                                           |                                                  |                                                                                           | <b>M4: 004</b><br><b>M5: 005</b><br><b>M6: 006</b><br><b>1/4' - 20: 761</b>                                             |
| <b>Hammermutter 10</b>                                                                    | <b>T Nut 10</b>                                  |                                                                                           | <b>102 010 ...</b>                                                                                                      |
| Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br>Klasse                                    | Quantity/box<br>Weight/pc<br>Weight/box<br>Class | 100<br>5,5 - 8,0g<br>0,55 - 0,80kg<br>8                                                   |                                                                                                                         |
|                                                                                           |                                                  |                                                                                           | <b>M4: 007</b><br><b>M5: 008</b><br><b>1/4' - 20: 738</b><br><b>M6: 009</b><br><b>M8: 010</b><br><b>5/16' - 18: 739</b> |

## Befestigungs-, Installationsmaterial Fixing-, Installation Material

|                                                                                     |                                                                                     |                                                                                                                                                                         |                                                                                                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 102 010 ...                                                                         | <b>Nutenstein 8</b>                                                                 | <b>T Slot nut 8</b>                                                                                                                                                     |                                                                                    |
| M4: 727<br>M6: 011                                                                  | M5: 709<br>M8: 013                                                                  |                                                                                                                                                                         |                                                                                                                                                                       |
|    |    | Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br><b>Anwendung</b><br>Zur Befestigung von Elementen an Profilen; seitlich einzuführen                                     | Quantity/box<br>Weight/pc<br>Weight/box<br><b>Application</b><br>To make solid connections to profiles; to be inserted before closing the frame                       |
|                                                                                     |                                                                                     | 100<br>6,5 - 8,1g<br>0,65 - 0,81kg                                                                                                                                      |                                                                                                                                                                       |
| 102 010 ...                                                                         | <b>Nutenstein 10</b>                                                                | <b>T Slot nut 10</b>                                                                                                                                                    |                                                                                    |
| M4: 707<br>M6: 012                                                                  | M5: 708<br>M8: 014                                                                  |                                                                                                                                                                         |                                                                                                                                                                       |
|   |    | Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br><b>Anwendung</b><br>Zur Befestigung von Elementen an Profilen; seitlich einzuführen                                     | Quantity/box<br>Weight/pc<br>Weight/box<br><b>Application</b><br>To make solid connections to profiles; to be inserted before closing the frame                       |
|                                                                                     |                                                                                     | 100<br>18,4 - 21,5g<br>1,84 - 2,15kg                                                                                                                                    |                                                                                                                                                                       |
| 102 010 ...                                                                         | <b>Nutenstein mit Feder</b>                                                         | <b>Roll-in T-slot nut</b>                                                                                                                                               |                                                                                  |
| M5: 015 M6: 016 M8: 017                                                             |                                                                                     |                                                                                                                                                                         |                                                                                                                                                                       |
|  |  | Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br><b>Anwendung</b><br>Zur Befestigung von Elementen, einschwenkbar auch in geschlossener Profilstruktur, mit Führungssteg | Quantity/box<br>Weight/pc<br>Weight/box<br><b>Application</b><br>To make solid connections. Can be rolled-in also into a closed structure, with self-aligning support |
|                                                                                     |                                                                                     | 100<br>7,90 - 8,55g<br>0,790 - 0,855kg                                                                                                                                  |                                                                                                                                                                       |
| 102 010 ...                                                                         | <b>Nutenstein mit Feder</b>                                                         | <b>Roll-in T-slot nut</b>                                                                                                                                               |                                                                                  |
| M4: 019 M5: 020<br>M6: 021 M8: 022                                                  |                                                                                     |                                                                                                                                                                         |                                                                                                                                                                       |
|  |  | Stückzahl/Box<br>Gewicht/Stk.<br>Gewicht/Box<br><b>Anwendung</b><br>Zur Befestigung von Elementen, einschwenkbar auch in geschlossener Profilstruktur, mit Führungssteg | Quantity/box<br>Weight/pc<br>Weight/box<br><b>Application</b><br>To make solid connections. Can be rolled-in also into a closed structure, aligning support           |
|                                                                                     |                                                                                     | 100<br>3,6 - 4,8g<br>0,36 - 0,48kg                                                                                                                                      |                                                                                                                                                                       |

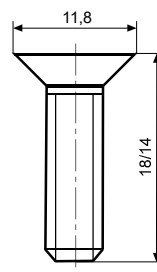
## Befestigungs-, Installationsmaterial Fixing-, Installation Material

| Schraube      | Screw        |    | 102 009 ...                     |
|---------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>M4x8</b>   | <b>M4x8</b>  |                                                                                                                                                                                                                                                       | M6x16: 001 M6x12: 002 M4x8: 005 |
| Stückzahl/Box | Quantity/box | 500                                                                                                                                                                                                                                                   |                                 |
| Gewicht/Stk.  | Weight/pc    | 1,6g                                                                                                                                                                                                                                                  |                                 |
| Gewicht/Box   | Weight/box   | 0,80kg                                                                                                                                                                                                                                                |                                 |
| <b>M6x12</b>  | <b>M6x12</b> |                                                                                                                                                                                                                                                       |                                 |
| Stückzahl/Box | Quantity/box | 500                                                                                                                                                                                                                                                   |                                 |
| Gewicht/Stk.  | Weight/pc    | 5,0g                                                                                                                                                                                                                                                  |                                 |
| Gewicht/Box   | Weight/box   | 2,5kg                                                                                                                                                                                                                                                 |                                 |
| <b>M6x16</b>  | <b>M6x16</b> |                                                                                                                                                                                                                                                       |                                 |
| Stückzahl/Box | Quantity/box | 200                                                                                                                                                                                                                                                   |                                 |
| Gewicht/Stk.  | Weight/pc    | 5,5g                                                                                                                                                                                                                                                  |                                 |
| Gewicht/Box   | Weight/box   | 2,75kg                                                                                                                                                                                                                                                |                                 |

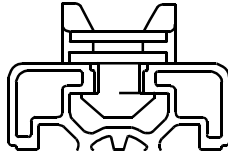
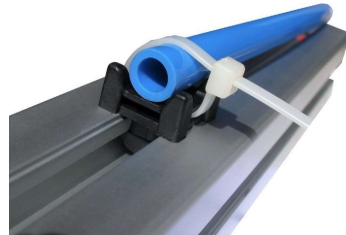


Standard : DIN 7984  
Klasse / Class: 8.8

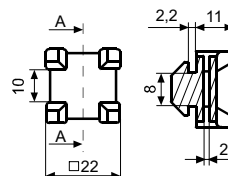
| Senkschraube        | Countersunk screw         |   | 102 009 ...           |
|---------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>M6x14</b>        | <b>M6x14</b>              |                                                                                                                                                                     | M6x14: 003 M6x18: 004 |
| Stückzahl/Box       | Quantity/box              | 500                                                                                                                                                                 |                       |
| Gewicht/Stk.        | Weight/pc                 | 3,4g                                                                                                                                                                |                       |
| Gewicht/Box         | Weight/box                | 0,68kg                                                                                                                                                              |                       |
| Material: Edelstahl | Material: stainless steel |                                                                                                                                                                     |                       |
| <b>M6x18</b>        | <b>M6x18</b>              |                                                                                                                                                                     |                       |
| Stückzahl/Box       | Quantity/box              | 200                                                                                                                                                                 |                       |
| Gewicht/Stk.        | Weight/pc                 | 4,1g                                                                                                                                                                |                       |
| Gewicht/Box         | Weight/box                | 0,82kg                                                                                                                                                              |                       |
| Material: Edelstahl | Material: stainless steel |                                                                                                                                                                     |                       |



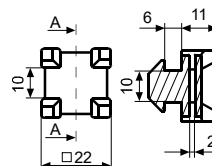
## Installationsmaterial Installation Material

| Allgemein                                                                                                                                         | General                                                                                                                               |                                                                                      |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Material</b><br>Glasfaserverstärktes PA, schwarz                                                                                               | <b>Material</b><br>Fibreglass reinforced PA, black colour                                                                             |                                                                                      |                                                                                       |
| <b>Anwendung</b><br>Befestigung von Kabeln und Schläuchen, sowohl längs als auch quer zum Profil. Montage mittels einer Vierteldrehung in der Nut | <b>Application</b><br>To fix cables and pneumatic hoses onto profiles, position is adjustable. Just insert into the slot and turn 90° |  |  |

| Kabelbinderblock 8 | Cable binder 8 |  | 102 014 001 |
|--------------------|----------------|-------------------------------------------------------------------------------------|-------------|
| Stückzahl/Box      | Quantity/box   | 100                                                                                 |             |
| Gewicht/Stk.       | Weight/pc      | 4g                                                                                  |             |
| Gewicht/Box        | Weight/box     | 0,4kg                                                                               |             |



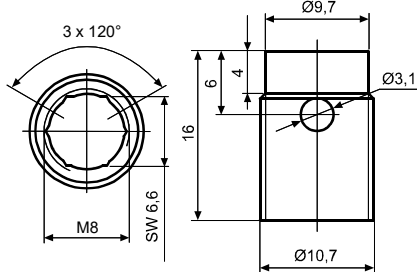
| Kabelbinderblock 10 | Cable binder 10 |  | 102 014 002 |
|---------------------|-----------------|-------------------------------------------------------------------------------------|-------------|
| Stückzahl/Box       | Quantity/box    | 100                                                                                 |             |
| Gewicht/Stk.        | Weight/pc       | 4,5g                                                                                |             |
| Gewicht/Box         | Weight/box      | 0,45kg                                                                              |             |



102 010 026

Gewindebuchse M8

Self tapping bush M8



Stückzahl/Box

Quantity/box

100

Gewicht/Stk.

Weight/pc

4g

Gewicht/Box

Weight/box

0,4kg

Schlüsselweite

Wrench size

6mm

**Anwendung:**

Für ein M8 Gewinde bei Kern Ø10mm

**Application:**

To get a M8 thread at a core Ø10mm

Allgemein

General

**Material**

Block: glasfaserverstärktes PA, schwarz

**Material**

Block: fibreglas reinforced PA, black

**Anwendung**

Einfache Befestigung von Kabelkanälen an Profilen. Einfach in die Nut einsetzen und 90° drehen.

**Application**

To mount a cable duct onto the profile. Just insert into the slot and turn 90°.

102 014 003

Kabelkanalfix

Cable Canal Fixture



Stückzahl/Box

Quantity/box

100

Gewicht/Stk.

Weight/pc

11g

Gewicht/Box

Weight/box

1,1kg

102 038 001

Rollenhalter

Roller Fixture

**Material**

Glasfaserverstärktes PA, schwarz

**Material**

Block: fibreglas reinforced PA, black

10

8g

0,08kg

**Anwendung**zur Aufnahme von Rollen, einfach einrasten  
Für Wellen Ø 8mm**Application:**

To fix Rollers, just snap in. For shaft Ø8mm

**Schleifstein**  
**Grinder Stone**



**Seite/Page 62**

**Gewindeformer**  
**Forming Tool**



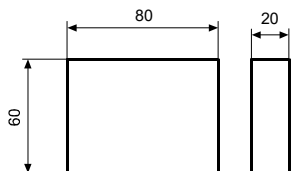
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**Bohrhilfe**  
**Drilling Device**



**Seite/Page 62**

102 031 001

**Schleifstein**

Stückzahl/Box

Gewicht/Stk.

Gewicht/Box

**Anwendung**

Entfernen von kleineren  
Kratzern und Polieren der  
Aluminiumprofile

**Grinder Stone**

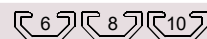
Quantity/box

Weight/pc

Weight/box

**Application**

Removal of minor scratches  
and cleaning on aluminium  
profile



5

19g

95g

102 031 003

**M8 Gewindeformer**

Stückzahl/Box

Gewicht/Stk.

**Anwendung**

Werkzeug für  
Kerndurch-  
messer 7.4mm

**M8 Forming Tool**

Quantity/box

Weight/pc

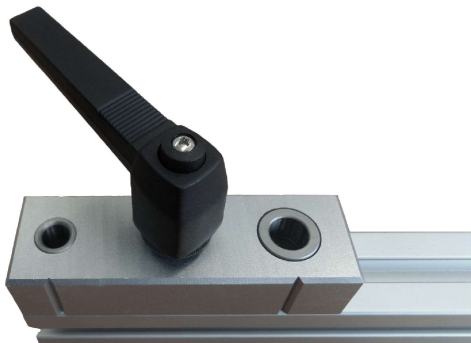
**Application**

Tool for  
self tapping bush  
Core diameter 7.4mm

1

34g

102 031 004

**Bohrhilfe**

Stückzahl/Box

Gewicht/Stk.

**Anwendung**

Für zentrierte  
Bohrungen im  
richtigen  
Abstand

ØA 8,0mm

ØB 11,0mm

**Drilling Device**

Quantity/box

Weight/pc

**Application**

For centered bores  
at the correct distance

ØA 8,0mm

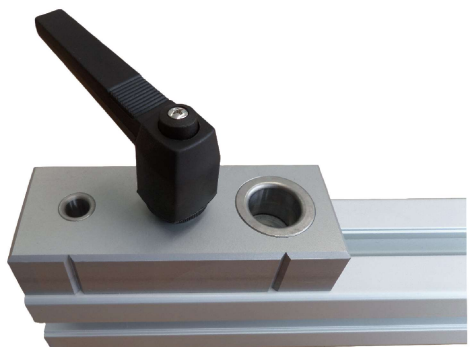
ØB 11,0mm



1

260g

102 031 005

**Bohrhilfe**

Stückzahl/Box

Gewicht/Stk.

**Anwendung**

Für zentrierte  
Bohrungen im  
richtigen  
Abstand

ØA 8,0mm

ØB 17,0mm

**Drilling Device**

Quantity/box

Weight/pc

**Application**

For centered bores  
at the correct distance

ØA 8,0mm

ØB 17,0mm



1

300g



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| 001 002 | 5     | 007 711 | 20    | 010 709 | 58    | 015 026 | 9     | 022 009 | 53    |
| 001 003 | 6     | 007 712 | 20    | 010 727 | 58    | 016 001 | 10    | 022 010 | 54    |
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| 004 003 | 34    | 010 008 | 57    | 015 005 | 5     | 019 006 | 47    | 032 700 | 14    |
| 004 702 | 34    | 010 009 | 57    | 015 006 | 5     | 019 007 | 48    | 032 702 | 17    |
| 005 001 | 23    | 010 010 | 57    | 015 007 | 6     | 020 001 | 45    | 032 704 | 15    |
| 006 001 | 23    | 010 011 | 58    | 015 008 | 8     | 020 003 | 45    | 032 706 | 16    |
| 006 002 | 23    | 010 012 | 58    | 015 009 | 7     | 020 005 | 46    | 032 707 | 15    |
| 006 003 | 23    | 010 013 | 58    | 015 010 | 9     | 020 006 | 46    | 032 709 | 16    |
| 006 004 | 23    | 010 014 | 58    | 015 011 | 5     | 020 007 | 46    | 032 710 | 14    |
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| 007 003 | 18    | 010 016 | 58    | 015 013 | 8     | 020 005 | 37    | 037 002 | 39    |
| 007 004 | 18    | 010 017 | 58    | 015 014 | 10    | 021 006 | 37    | 037 003 | 39    |
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