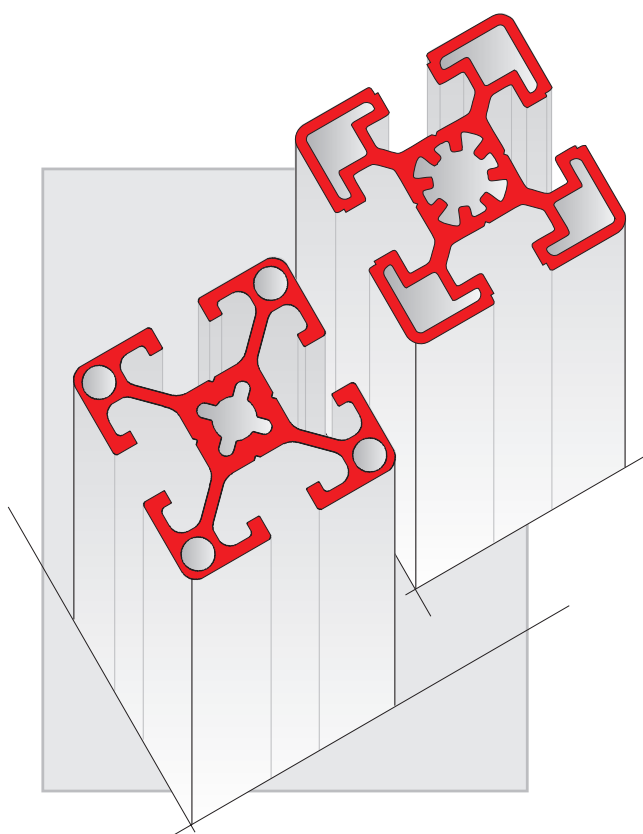


# ALUPROFIL



## KOMPATIBLE PROFILREIHEN & SYSTEM-ENGINEERING

- > COMPATIBLE PROFILE RANGES
- > SERIES DE PROFILES COMPATIBLES



# DAS UNTERNEHMEN THE COMPANY L'ENTREPRISE



FM SYSTEME liefert Alu-Profile und die Systeme daraus. Lösungen für die Infrastruktur industrieller Produktionsbetriebe. Vom Basis-Bauteil bis zur kompletten Fertigungsanlage und weiter zur Automatisierungs- und Rationalisierungstechnik.

Dahinter stehen fast 30 Jahre bewusste Spezialisierung: Erfahrung, Kompetenz, Engagement für ein einziges doch in seiner Vielfalt umfassendes Technikfeld. Nach dem Prinzip: In einem Fachbereich alles können, wissen, schaffen – und damit unschlagbar alles bieten. Dazu gehören mehr als Funktionalität und Qualität eines Produkts: Ständiger Know-how-Ausbau intensive Partnerschaften – mit Kunden und Zulieferern. Immer neueste Anwendungsvarianten.

Universelle Standards und Individualität für jeden Praxisfall. Konsequente Zukunftsorientierung.

Kurz: Höchste Innovationskraft.

FM SYSTEME provides aluminium profiles – as well as the systems that can be built with them. Solutions for the infrastructure of industrial production plants. Ranging from basic parts to complete manufacturing facilities and automation and rationalization technology.

This is made possible based on 30 years of well-planned specialization: experience, competence, commitment to a single yet very comprehensive field of technology. According to our philosophy: Know every thing and be able to do and accomplish everything in one special field – so that you are able to provide an unrivalled offer. This includes more than just product functionality and quality. Continuous improvement of expertise. Intensive partnerships – with customers and suppliers. Continuously new application variants.

Universal standards and individuality for each practical case. Consistent orientation towards the future.

In short: Maximum power of innovation.

FM SYSTEME fournit des profilés aluminium et des systèmes dérivés. Solutions pour l'infrastructure des entreprises industrielles.

Automatisation et rationalisation de à de l'équipement industriel.

30 ans d'expérience et d'engagement mis au service des innovations, pour répondre aux besoins, simples ou complexes, de nos clients.

Notre bureau d'études, assisté par le bon partenariat avec nos clients et fournisseurs, assure une évolution constante de notre gamme de produits et de notre savoir-faire.

En bref : FM s'oriente sur l'avenir grâce à sa très puissante force d'innovation.

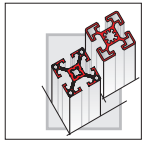


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# ALUPROFILSYSTEM & SYSTEM-ENGINEERING

- **Kompatibel einsetzbares Aluminiumprofil**
- **Umfangreiches Zubehör**
- **Kundenspezifische Lösungen**





# NAVIGATION NAVIGATION NAVIGATION

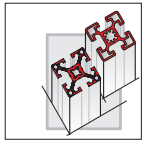


	Nutbreite des Profils 5 / 8E / 8K / 8 / 10	Profile groove width 5 / 8E / 8K / 8 / 10	Rainure 5 / 8E / 8K / 8 / 10
	Profilreihe / Ausführung L = leicht N = normal MS = mittelschwer S = schwer 10K = Kernloch Ø10	Profile series / Version L = light N = normal MS = medium weight S = heavy 10K = core hole Ø10	Série / version L = léger N = normal MS = mi-lourd S = lourd 10K = alésage Ø10
<b>05.01352.00</b>	Bestell - Nummer	Order number	Référence
■ 1.02 / ➔ ■ 14.01	Seitenzahl / Verweis auf Seite	Page no. / Reference to page	Page / Renvoi en page
	Technische Informationen	Technical Information	Informations techniques
	Profilbearbeitung	Profile processing	Gamme d'usages
	In Profilbearbeitung: - empfohlen (mit Bearbeitung)	In profile processing: - possible with processing	En gamme d'usage: - applicable avec usinage
	In Profilbearbeitung: - ohne Bearbeitung	In profile processing: - without processing	En gamme d'usage: - applicable sans usinage
	Werkzeug / Vorrichtung	Tool / Device	Outillage / Gabarit
GD-Al GD-Zn St, vz. VA	Aluminiumdruckguss Zinkdruckguss Stahl, verzinkt Edelstahl	Diecast aluminium Zinc diecast Galvanized steel Stainless steel	Aluminium moulé sous pression Zamak Acier zingué Acier inoxydable
<b>NEW</b>	Neuheit	Innovation	Innovation
	ESD - leitfähig	ESD conductive	Matériau conducteur ESD
	Drehmoment [N] / Maximale Belastung [N]	Torque [N] / Maximum load [N]	Couple [N] / Charge maxi [N]
	Verweis auf separaten Katalog	Reference to separate catalogue	Renvoi à un autre catalogue
	FM - Patent	FM patent	Brevet FM

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# DER WEG ZUM RICHTIGEN PROFIL ... FINDING THE RIGHT PROFILE ... POUR TROUVER LE BON PROFILE ...



## Profilreihe

Profile series · Série de profilés

16 / 20

30 / 40 / 45 / 50

Weiter mit Profilgröße  
Continue with profile dimension  
Dimension du profilé

Weiter mit Profilausführung  
Continue with profile designs  
Version du profilé

## Profilausführung

Profile design  
Version de profilé



20



Masse  
 $I_x / I_y$   
 $W_x / W_y$   
ab Seite

0,48 kg/m  
0,74 cm<sup>4</sup>  
0,74 cm<sup>3</sup>  
■ 2.07



30



0,81 kg/m  
2,78 cm<sup>4</sup>  
1,85 cm<sup>3</sup>  
■ 2.11

30-10K



1,00 kg/m  
3,17 cm<sup>4</sup>  
2,11 cm<sup>3</sup>  
■ 2.17



40EL-1.4



Masse  
 $I_x / I_y$   
 $W_x / W_y$   
ab Seite

1,37 kg/m  
7,42 cm<sup>4</sup>  
3,71 cm<sup>3</sup>  
■ 2.21

40L-1.55



1,55 kg/m  
8,40 cm<sup>4</sup>  
4,20 cm<sup>3</sup>  
■ 2.21

40-10K



1,60 kg/m  
9,46 cm<sup>4</sup>  
4,73 cm<sup>3</sup>  
■ 2.39

40N



1,72 kg/m  
9,66 cm<sup>4</sup>  
4,83 cm<sup>3</sup>  
■ 2.29

40MS



1,90 kg/m  
10,52 cm<sup>4</sup>  
5,26 cm<sup>3</sup>  
■ 2.43

40S



2,45 kg/m  
13,90 cm<sup>4</sup>  
6,95 cm<sup>3</sup>  
■ 2.47



45EL-1.4



Masse  
 $I_x / I_y$   
 $W_x / W_y$   
ab Seite

1,40 kg/m  
9,28 cm<sup>4</sup>  
4,12 cm<sup>3</sup>  
■ 2.55

45L-1.6



1,60 kg/m  
10,17 cm<sup>4</sup>  
4,52 cm<sup>3</sup>  
■ 2.55

45N-1.9



1,90 kg/m  
12,95 cm<sup>4</sup>  
5,18 cm<sup>3</sup>  
■ 2.63

45MS-2.1



2,10 kg/m  
15,56 cm<sup>4</sup>  
6,92 cm<sup>3</sup>  
■ 2.67

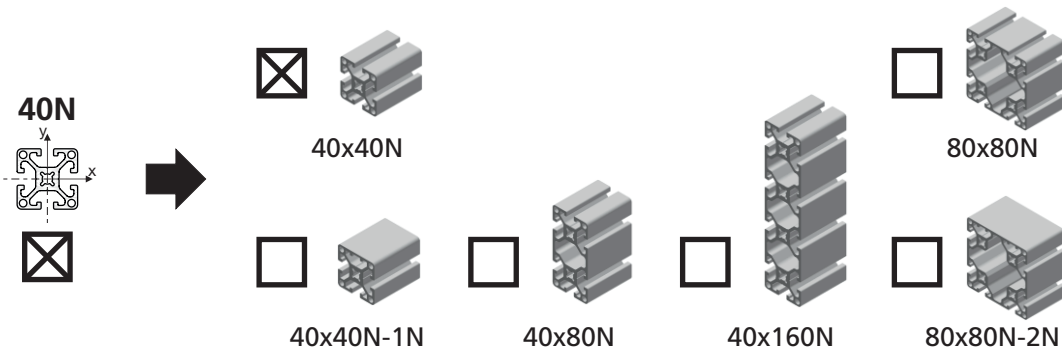
45S



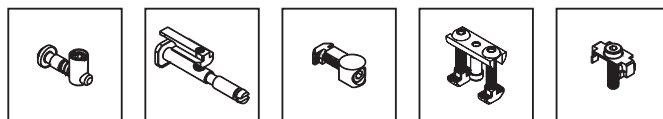
2,62 kg/m  
18,95 cm<sup>4</sup>  
8,42 cm<sup>3</sup>  
■ 2.67

## Profilgröße

Profile dimension · Taille de profilé



Weiter mit Verbinderauswahl  
Continue with connector selection  
Choix de la fixation

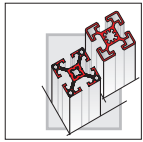


**... UND ZUM PASSENDEN VERBINDER**  
**... AND THE RIGHT CONNECTOR**  
**... ET POUR TROUVER LA FIXATION OPTIMALE**



<u>Verbinderauswahl</u>	<u>Connector selection</u>						<u>Choix de fixations</u>			
Das Angebot von FM Systeme umfasst eine große Anzahl von Verbindern, mit unterschiedlichen Merkmalen und Eigenschaften. Mit Hilfe dieser Tabelle können Sie prüfen, ob die Eigenschaften des Verbinders, die für Sie notwendigen Anforderungen erfüllt.	FM Systems offers you a large selection of connectors with a variety of properties and characteristics. With the help of this table you can decide whether a connector fulfils the requirements for your application.						FM vous propose une gamme très diversifiée de fixations présentant des caractéristiques et spécificités variées. Ce tableau vous permet de vérifier quelles fixations correspondent aux exigences des applications souhaitées, et donc de réaliser une première sélection.			
	➔ ■ 3.02	➔ ■ 3.04	➔ ■ 3.11	➔ ■ 3.06	➔ ■ 3.08	➔ ■ 3.10	➔ ■ 3.13	➔ ■ 3.05	➔ ■ 3.15	➔ ■ 3.16
	+++	+++	+	+++	+++	++	++	++	+++	+++
	Hohe Momentaufnahme / High moment / Captage important du moment									
	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++
	Hohe Verschiebekraftaufnahme / High feed force / Captage important de la force de glissement									
	-	++	++	++	+++	++	++	++	-	+++
	Hohe Torsionsmomentaufnahme / High torsional moment / Captage important du moment de torsion									
	+	++	+	+	+++	+++	+++	+++	++	++
	Geringer Bearbeitungsaufwand / Minimal work on profile / Ne demande pas beaucoup d'usage									
	+++	++	+	++	+	+	++	++	+++	+++
	Geringer Montageaufwand / Minimal assembly / Temps de montage minime									
	+++	+++	++	++	++	+++	++	++	-	-
	Justierbarkeit / Adjustment possible / Adjustable									
	++	++	-	-	-	+	-	-	++	+++
	Aufnahme von Flächenelementen / Support of surface elements / Accueil des éléments de surface									
+++	<b>empfohlen</b>		+++	<b>recommended</b>		+++	<b>conseillé</b>			
++	<b>geeignet</b>		++	<b>suitable</b>		++	<b>adapté</b>			
+	<b>funktionsfähig</b>		+	<b>functionable</b>		+	<b>fonctionnel</b>			
-	<b>ungeeignet</b>		-	<b>unsuitable</b>		-	<b>inadapté</b>			

Technische Änderungen vorbehalten



# BESCHREIBUNG DES SYSTEMS

## DESCRIPTION OF THE SYSTEM

### DESCRIPTION DU SYSTEME



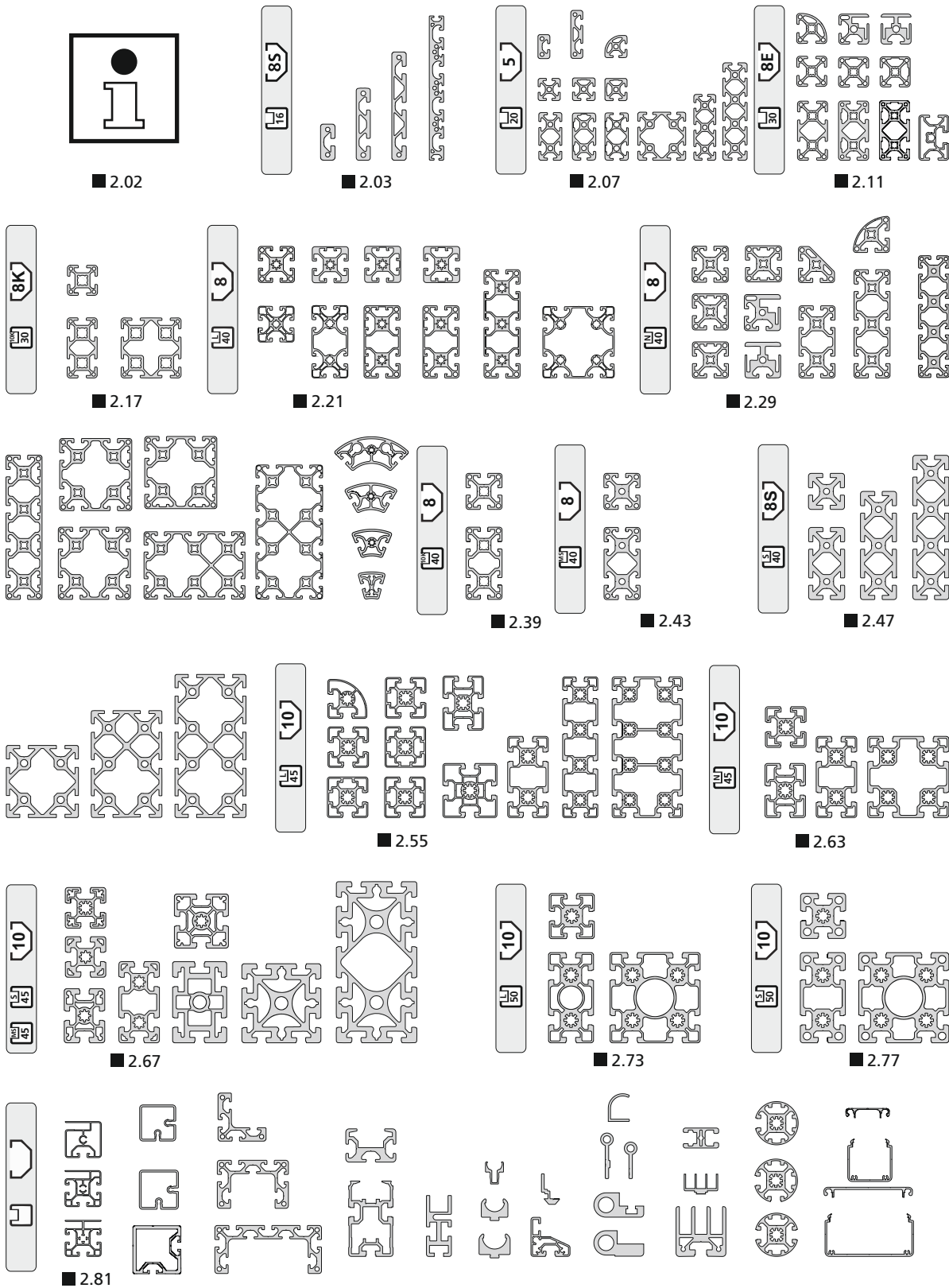
- **Umfangreich**  
Das FM-Profilsystem ist ein modularer Baukasten mit Grundelementen für den Bau von Rationalisierungs- und Automatisierungseinrichtungen, sowie Anlagen. Mehr als 150 Standard-Strebenprofile bilden die Basis. Profile in Sonderausführung ergänzen das System.
- **Kompatibel**  
Die Profile der Baureihe 20 mit Nut 5, der Baureihe 30/40/80 mit Nut 8, sowie die Baureihen 45/60/90 und 50/100 mit Nut 10 sind kompatibel zu den am Markt gängigen Ausführungen.
- **Wirtschaftlich**  
Auf Grund der umfangreichen Anzahl an Aluprofilen kann entsprechend der technischen Aufgabenstellung das jeweils wirtschaftlichste Profil gewählt werden.
- **Flexibel**  
Ein flexibles, wirtschaftliches und modulares Verbindersystem gewährleistet den Zusammenbau aller vorhandenen Profile. Besonderheit: Einige Verbinder ermöglichen die Kombination unterschiedlicher Profilgrößen sowie Nuttypen.
- **Vielfältig**  
Mit den standardisierten und modular aufgebauten Elementen ist es möglich, nahezu allen konstruktiven Herausforderungen gerecht zu werden.
- **Hochwertig**  
Die stabilen Profilquerschnitte, die kräftige Nutausführung, die hohe Eloxalstärke sowie die stabile und montagefreundliche Verbindertechnik garantieren eine hohe Qualität.
- **Wiederverwendbar**  
Die hohe Qualität sowie die Beständigkeit ermöglichen die Wiederverwendbarkeit der Elemente. Die flexiblen Baukästen garantieren einen stetigen Weiterbau und eine jederzeitige Anpassung der Einrichtungen an geänderte Aufgabenstellungen.
- **Comprehensive modular system**  
The FM profile system is a modular concept of basic elements for the construction of rationalisation and automatic systems and equipment. More than 150 standard strut profiles form the basis. Profiles in special design complete the system.
- **Compatible**  
The profiles of the 20 series with groove width of 5 mm, the 30/40/80 series with a slot width of 8 mm and the 45/60/90 and 50/100 series with groove width of 10 mm, offer an extremely economical choice according to individual requirements.
- **Economical**  
Our economical system with a big variety of profiles, allows FM always to use the most economical profile.
- **Flexibility**  
The diversity of the standardised and modular design elements allows virtually unlimited possibilities for construction applications. Special feature: some connectors allow the combination of different profile dimensions and slot-types.
- **Versatile**  
It is possible to manage almost all constructive challenges with our standardized and modular elements.
- **High quality**  
Sturdy profiles, strong grooves, high anodising strength and a sturdy, easy to assemble connector system offer a high quality.
- **Flexible application and reusability**  
This level of quality and resistance ensures longevity, reusability and flexibility of our elements. The modular concept guarantees consistent extension and modification of installations at all times to changes in requirements and situations.
- **Un gamme importante de produits**  
Avec plus de 150 profilés standard complétés par des profilés spéciaux, le système FM offre une grande modularité permettant la construction de systèmes de rationalisation et d'automation performants.
- **Compatibilité**  
Les profilés de la série 20 rainure 5, de la série 30/40/80 rainure 8 ainsi que les séries 45/60/90 et 50/100 rainure 10 sont compatibles avec la plupart des profilés sur le marché. Ils répondent aux impératifs techniques les plus pointus.
- **Un gamme particulière étendue**  
La large gamme de profilés aluminium permet de trouver la solution la plus adaptée à vos besoins techniques et économiques.
- **Système de raccordement universel**  
Un système de raccordement flexible, économique et modulaire permet une variété presque infinie de constructions. De nombreuses fixations s'adaptent aux deux types de rainures.
- **Nombreuses possibilités d'utilisation**  
La diversité des éléments standardisés et de conception modulaire permet une variété presque infinie de constructions.
- **Haute qualité**  
La haute qualité repose sur une conception alliant les atouts suivants : sections particulièrement stables, notamment au niveau des rainures, Anodisation haut de gamme, technique d'assemblage solide, rationnelle et conviviale.
- **Flexibilité d'utilisation et récupérabilité**  
La grande qualité et la robustesse de nos éléments est le garant de leur longévité. La conception modulaire offre la possibilité d'assembler ces éléments sur des structures déjà existantes, et de permettre de nouvelles adaptations en fonction de l'évolution des impératifs de construction.

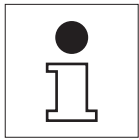


# PROFIL-ÜBERSICHT

## OVERVIEW OF PROFILES

### PANORAMA DES PROFILES





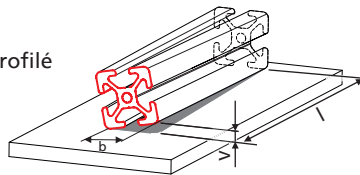
# TECHNISCHE DATEN TECHNICAL DATA DONNEES TECHNIQUES



<ul style="list-style-type: none"> <li>• <b>Strangpressprofile nach DIN EN 12020</b> (Ersatz für DIN 17615)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Extruded profiles in compliance with DIN EN 12020</b> (Replacement for DIN 17615)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Profils extrudés selon DIN EN 12020</b> (remplace la norme DIN 17615)</li> </ul>
<p>Werkstoff Al Mg Si 0,5 F25 Werkstoff-Nr. 3.3206.72 (warmausgehärtet)</p>	<p>Material: Al Mg Si 0.5 F25 Material no.: 3.3206.72 (furnace aged)</p>	<p>Matière Al Mg Si 0,5 F25 No. matière 3.3206.72 (thermodurci)</p>
<ul style="list-style-type: none"> <li>• <b>Lieferlänge</b> (falls nicht anders angegeben) 6040 mm Funktionslänge (falls nicht anders angegeben) 6000 mm Zuschnittstoleranz über alle Längen +/- 1 mm</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Supplied length</b> (unless otherwise specified) 6040 mm Functional length (unless otherwise specified) 6000 mm Tolerance for all lengths +/- 1 mm</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Longueur livrée</b> (sauf spécification contraire) 6040 mm Longueur fonctionnelle (sauf spécification contraire) 6000 mm Tolérance +/- 1 mm</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Mechanische Daten</b> (in Pressrichtung)</li> </ul> <p>Zugfestigkeit R<sub>m</sub> min. 250 N/mm<sup>2</sup> Streckgrenze R<sub>p0,2</sub> min. 200 N/mm<sup>2</sup> Bruchdehnung A 5 min. 10 % Bruchdehnung A10 min. 8 % E-Modul ca. 70 000 N/mm<sup>2</sup> Härte nach Brinell ca. 75 HB Längenausdehnungskoeffizient (bei 20-100°C) 23,6 x 10<sup>-6</sup> 1/K  </p>	<ul style="list-style-type: none"> <li>• <b>Mechanical data</b> (in pressing direction)</li> </ul> <p>Tensile strength R<sub>m</sub> min. 250 N/mm<sup>2</sup> Yield strength R<sub>p0,2</sub> min. 200 N/mm<sup>2</sup> Ductile yield A 5 min. 10 % Ductile yield A10 min. 8 % E-module approx. 70 000 N/mm<sup>2</sup> Brinell hardness approx. 75 HB Linear expansion coefficient (at 20-100°C) 23,6 x 10<sup>-6</sup> 1/K</p>	<ul style="list-style-type: none"> <li>• <b>Caractéristiques mécaniques</b> (sens d'extrusion)</li> </ul> <p>Résistance à la traction R<sub>m</sub> min. 250 N/mm<sup>2</sup> Limite d'élasticité R<sub>p0,2</sub> min. 200 N/mm<sup>2</sup> Allongement à la rupture A 5 min. 10 % Allongement à la rupture A10 min. 8 % Coefficient d'élasticité env. 70 000 N/mm<sup>2</sup> Dureté selon Brinell env. 75 HB Coefficient de dilatation thermique linéaire (de 20-100°C) 23,6 x 10<sup>-6</sup> 1/K</p>
<ul style="list-style-type: none"> <li>• <b>Oberfläche</b> Matt, gebeizt E6 / Ev1 Eloxal-Schichtdicke ca. 15 µm Eloxal-Schichthärte ca. 270-320 HV</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Surface</b> Dead-dipped E6 / Ev1 Anodizing layer thickness approx. 15 µm Anodizing layer strength approx. 270-320 HV</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Surface</b> Décapé au mat E6 / Ev1 Épaisseur couche anodisation env. 15 µm Dureté anodisation env. 270-320 HV</li> </ul>

## Verwindungstoleranz in Profillängsrichtung

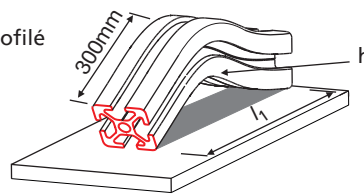
Longitudinal torsional tolerance of profile  
Tolérance de torsion dans le sens de la longueur du profilé



b (mm) über bis	v bei Längen l (mm)			
	1.000	2.000	4.000	6.000
20 45	1,0	1,2	1,8	2,0
45 70	1,0	1,2	1,5	2,0
75 100	1,0	1,5	2,2	3,0
125 150	1,2	1,5	2,2	3,0

## Geradheitstoleranz in Profillängsrichtung

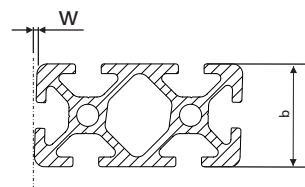
Longitudinal straightness tolerance of profile  
Tolérance rectiligne dans le sens de la longueur du profilé



Länge l1 (mm)	h (mm)
bis 1.000	0,7
bis 2.000	1,3
bis 3.000	1,8
bis 4.000	2,2
bis 5.000	2,6
bis 6.000	3,0

## Winkeltoleranz (Neigungstoleranz)

Angle tolerance (inclination tolerance)  
Tolérance angulaire (tolérance inclinaison)

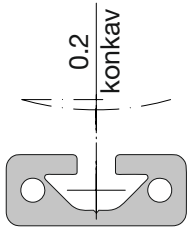


Breite b (mm)	Toleranz w (mm)
0 - 20	0,2
20 - 40	0,4
40 - 80	0,6
80 - 120	0,8
120-160	1,2

# ALU-PROFILE PROFILES PROFILES



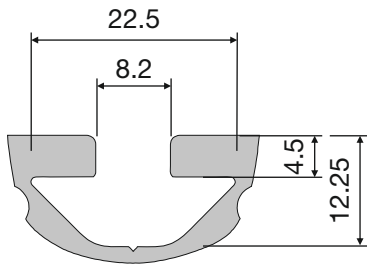
## Konkavität



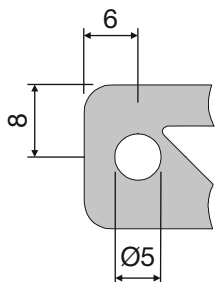
16x40S	16x80S	16x120S	16x160
■ 2.05	■ 2.05	■ 2.05	■ 2.06

2

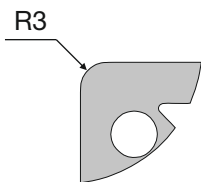
## Nut 8S



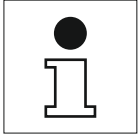
## Kernloch



## Außenkante



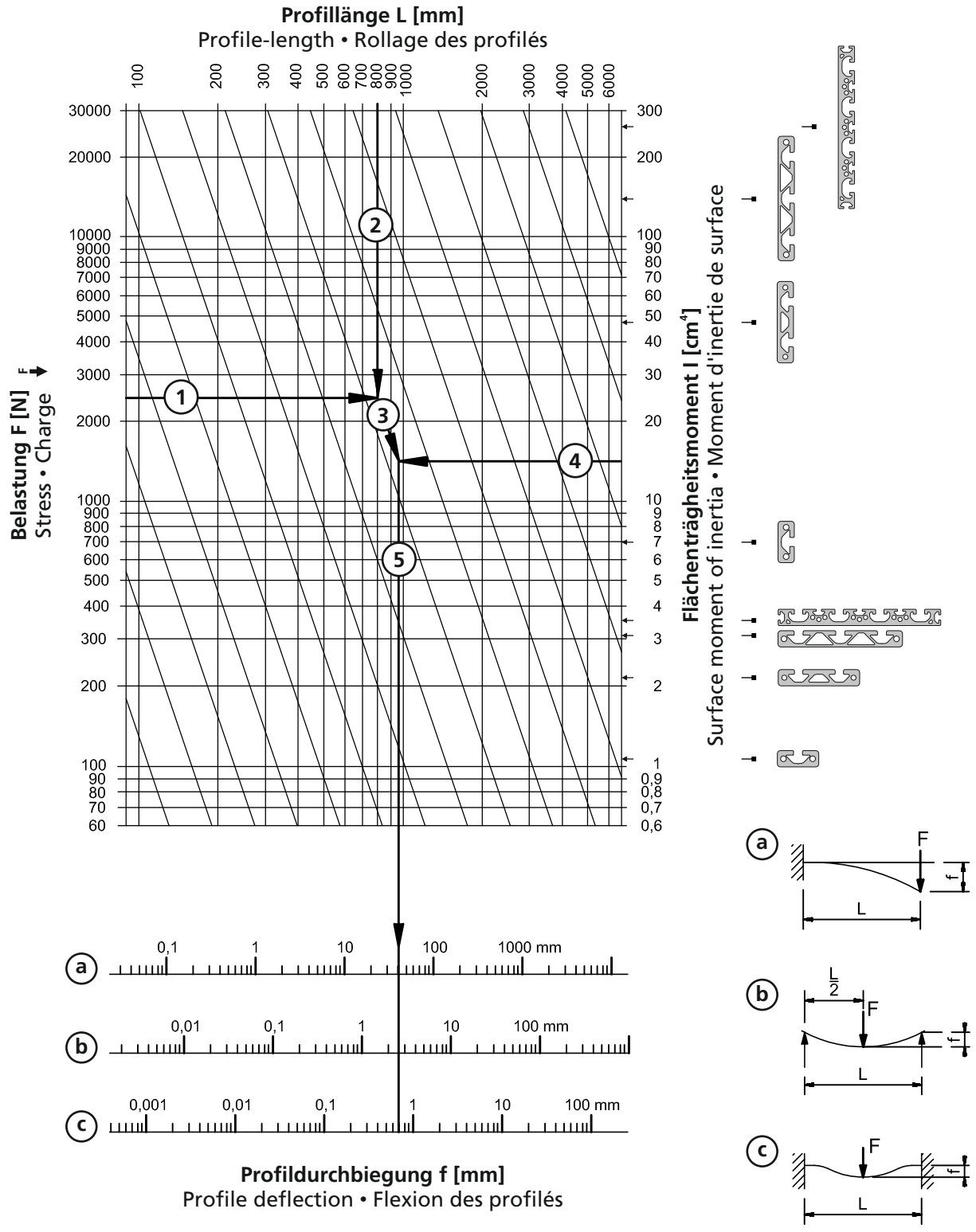
Technische Änderungen vorbehalten



**Durchbiegung der Profile**

Profile deflection

Flexion des profilés

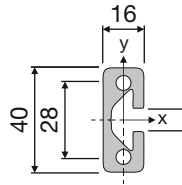
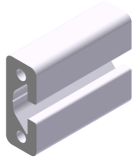


Technische Änderungen vorbehalten

**ALU-PROFILE**  
**PROFILES**  
**PROFILES**



**16x40 S**



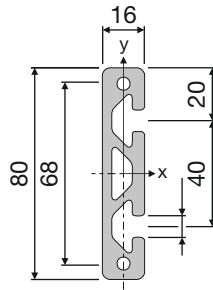
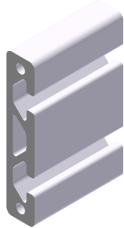
**05.01045.00**

M = 1,16 kg/m  
 $I_x = 7,10 \text{ cm}^4$   
 $W_x = 3,55 \text{ cm}^3$   
 $I_y = 1,10 \text{ cm}^4$   
 $W_y = 1,38 \text{ cm}^3$

PE (m)  
 6 / 60 / 120



**16x80 S**

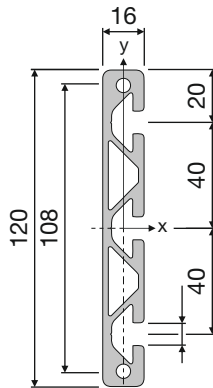
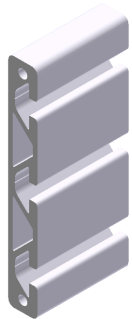


**05.01813.00**

M = 2,14 kg/m  
 $I_x = 48,75 \text{ cm}^4$   
 $W_x = 12,19 \text{ cm}^3$   
 $I_y = 2,20 \text{ cm}^4$   
 $W_y = 2,75 \text{ cm}^3$

PE (m)  
 6 / 60 / 120

**16x120 S**

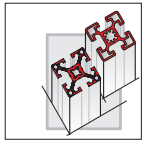


**05.01806.00**

M = 2,79 kg/m  
 $I_x = 148,38 \text{ cm}^4$   
 $W_x = 24,73 \text{ cm}^3$   
 $I_y = 3,07 \text{ cm}^4$   
 $W_y = 3,84 \text{ cm}^3$

PE (m)  
 6 / 60 / 120

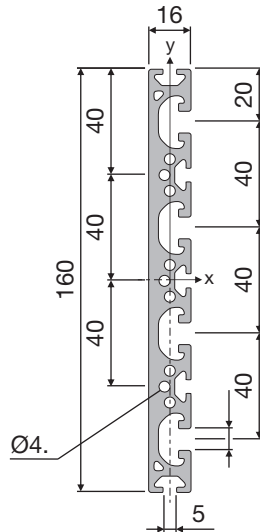
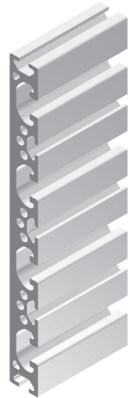
Technische Änderungen vorbehalten



# ALU-PROFILE PROFILES PROFILES



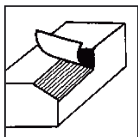
**16x160**



**05.01805.00**

M = 3,87 kg/m  
 $I_x = 298,20 \text{ cm}^4$   
 $W_x = 37,28 \text{ cm}^3$   
 $I_y = 3,91 \text{ cm}^4$   
 $W_y = 4,89 \text{ cm}^3$

PE (m)  
 6 / 60 / 120

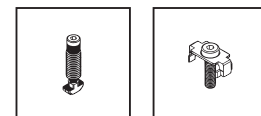


# PROFILBEARBEITUNG PROFILE FINISHING USINAGE DE PROFILES

↓      ↓ ↓      ↓ ↓ ↓      ↓ ↓ ↓ ↓  
  
**16x40**      **16x80**      **16x120**      **16x160**

			05.xxxxx.09	
VSI 7			05.xxxxx.15 ■ 3.17	VSA 14
				05.xxxxx.45 ■ 3.16
VSI 7		VSI 7	05.xxxxx.16	VSA 14
				VSA 14 05.xxxxx.46

Technische Änderungen vorbehalten



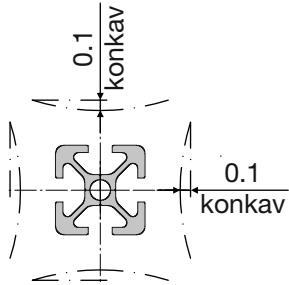
# ALU-PROFILE

## PROFILES

## PROFILES

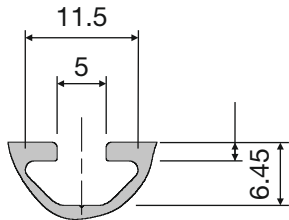


### Konkavität



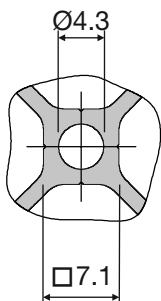
10x20	10x40		
■ 2.09	■ 2.31		

### Nut 5



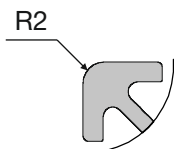
20x20	20x20-1N	20x20-2N90	20x20-R
■ 2.09	■ 2.09	■ 2.09.1	■ 2.09.1

### Kernloch



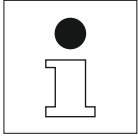
20x40	20x40-2N	20x40-3N90	
■ 2.09.1	■ 2.09.1	■ 2.09.2	

### Außenkante

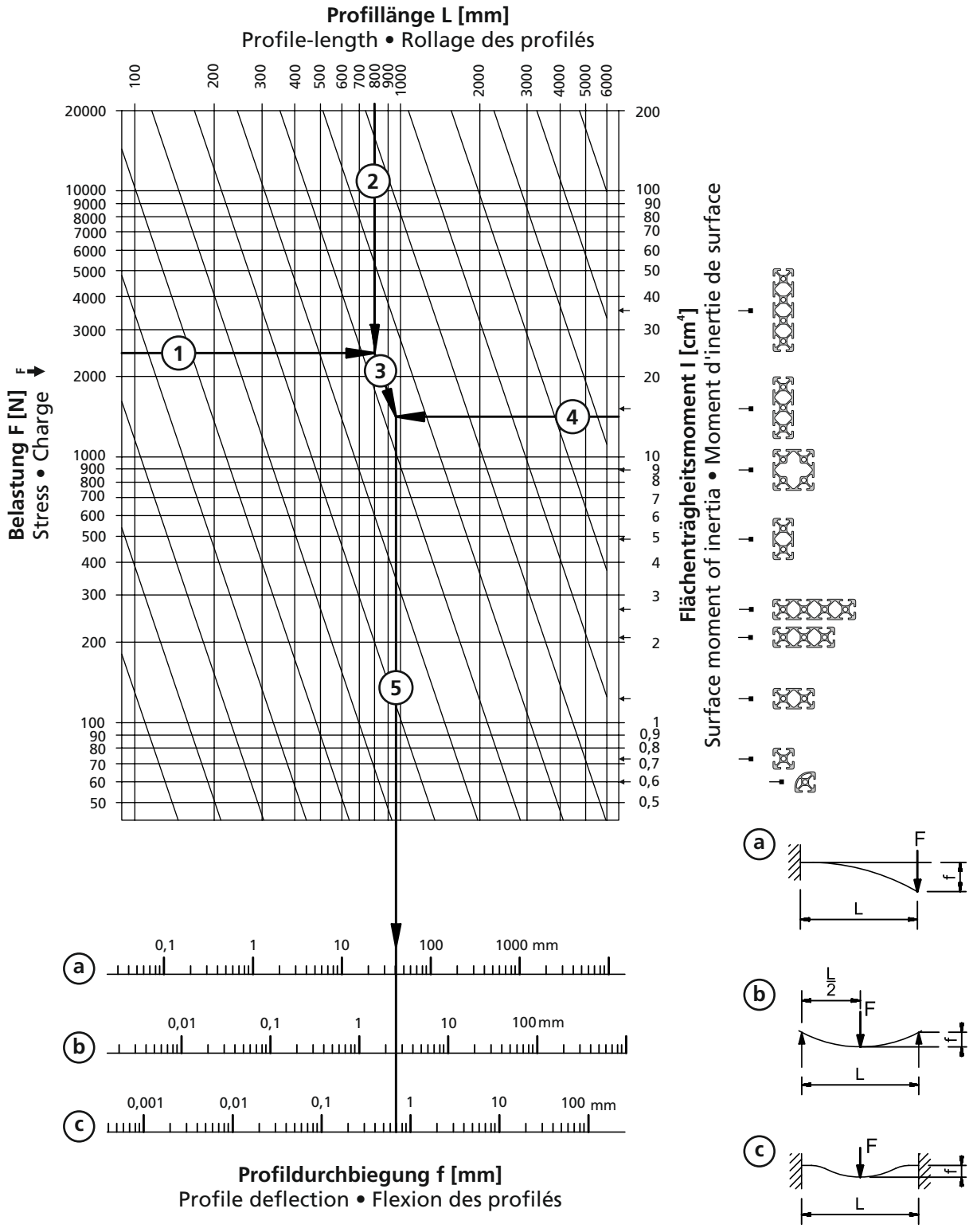


20x60	20x80	40x40
■ 2.09.2	■ 2.09.2	■ 2.09.2

Technische Änderungen vorbehalten



**Durchbiegung der Profile**  
 Profile deflection  
 Flexion des profilés



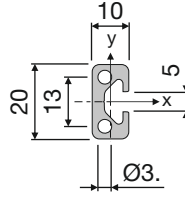
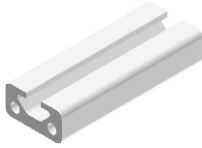
Technische Änderungen vorbehalten



# ALU-PROFILE PROFILES PROFILES



## 10x20

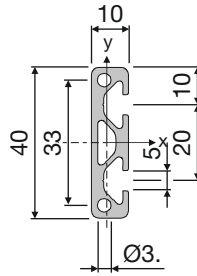
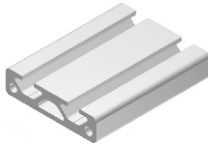


### 05.01602.00

M = 0,35 kg/m  
 $I_x = 0,53 \text{ cm}^4$   
 $W_x = 0,53 \text{ cm}^3$   
 $I_y = 0,13 \text{ cm}^4$   
 $W_y = 0,26 \text{ cm}^3$

PE (m)  
3

## 10x40

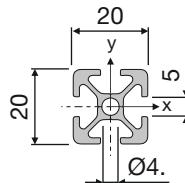
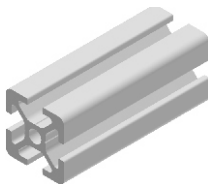


### 05.01603.00

M = 0,63 kg/m  
 $I_x = 3,56 \text{ cm}^4$   
 $W_x = 7,12 \text{ cm}^3$   
 $I_y = 0,35 \text{ cm}^4$   
 $W_y = 0,18 \text{ cm}^3$

PE (m)  
3

## 20x20

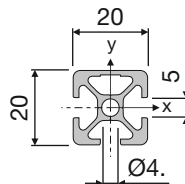
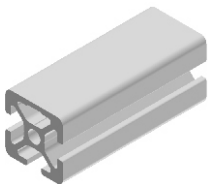


### 05.01605.00

M = 0,48 kg/m  
 $I_x = 0,74 \text{ cm}^4$   
 $W_x = 0,74 \text{ cm}^3$   
 $I_y = 0,74 \text{ cm}^4$   
 $W_y = 0,74 \text{ cm}^3$

PE (m)  
6 / 96 / 192

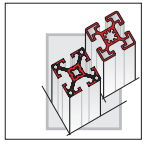
## 20x20-1N



### 05.01645.00

M = 0,50 kg/m  
 $I_x = 0,74 \text{ cm}^4$   
 $W_x = 0,74 \text{ cm}^3$   
 $I_y = 0,80 \text{ cm}^4$   
 $W_y = 0,80 \text{ cm}^3$

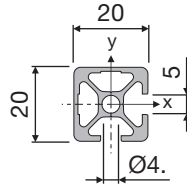
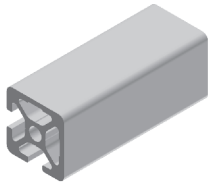
PE (m)  
6 / 96 / 192



# ALU-PROFILE PROFILES PROFILES



## 20x20-2N90

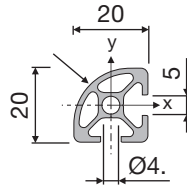
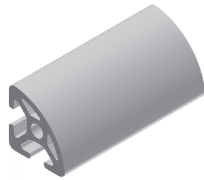


### 05.01646.00

M = 0,52 kg/m  
 $I_x = 0,80 \text{ cm}^4$   
 $W_x = 0,80 \text{ cm}^3$   
 $I_y = 0,80 \text{ cm}^4$   
 $W_y = 0,80 \text{ cm}^3$

PE (m)  
 6 / 96 / 192

## 20x20-R

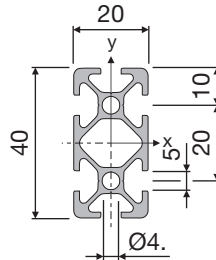
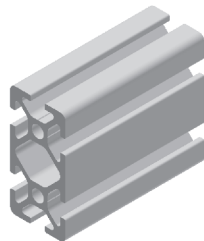


### 05.01024.00

M = 0,47 kg/m  
 $I_x = 0,66 \text{ cm}^4$   
 $W_x = 0,66 \text{ cm}^3$   
 $I_y = 0,66 \text{ cm}^4$   
 $W_y = 0,66 \text{ cm}^3$

PE (m)  
 3

## 20x40

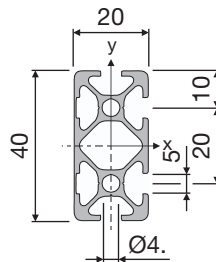
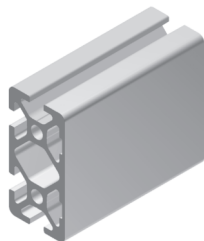


### 05.01606.00

M = 0,85 kg/m  
 $I_x = 5,01 \text{ cm}^4$   
 $W_x = 2,51 \text{ cm}^3$   
 $I_y = 1,36 \text{ cm}^4$   
 $W_y = 1,36 \text{ cm}^3$

PE (m)  
 6 / 96 / 192

## 20x40-2N



### 05.01658.00

M = 0,89 kg/m  
 $I_x = 5,27 \text{ cm}^4$   
 $W_x = 2,64 \text{ cm}^3$   
 $I_y = 1,44 \text{ cm}^4$   
 $W_y = 1,44 \text{ cm}^3$

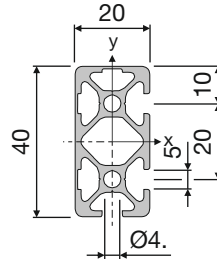
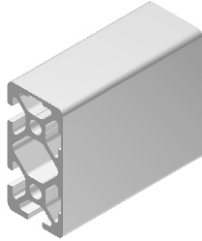
PE (m)  
 3

Technische Änderungen vorbehalten

**ALU-PROFILE**  
**PROFILES**  
**PROFILES**



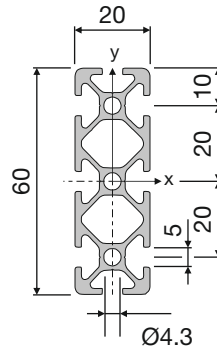
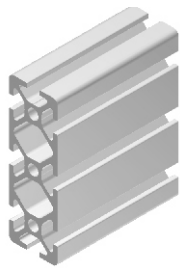
**20x40-3N90**



**05.01659.00**

M = 0,89 kg/m  
 $I_x = 5,27 \text{ cm}^4$   
 $W_x = 2,64 \text{ cm}^3$   
 $I_y = 1,44 \text{ cm}^4$   
 $W_y = 1,44 \text{ cm}^3$   
 PE (m)  
 6 / 96 / 192

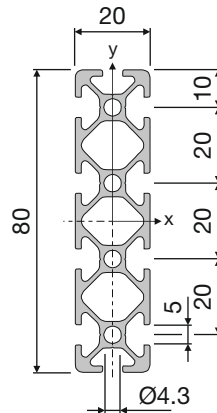
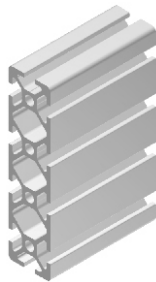
**20x60**



**05.01663.00**

M = 1,24 kg/m  
 $I_x = 16,09 \text{ cm}^4$   
 $W_x = 5,36 \text{ cm}^3$   
 $I_y = 2,06 \text{ cm}^4$   
 $W_y = 2,06 \text{ cm}^3$   
 PE (m)  
 6 / 24

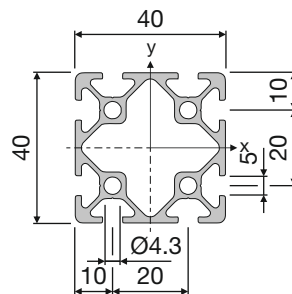
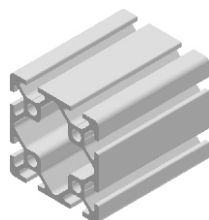
**20x80**



**05.01664.00**

M = 1,62 kg/m  
 $I_x = 36,08 \text{ cm}^4$   
 $W_x = 9,02 \text{ cm}^3$   
 $I_y = 2,72 \text{ cm}^4$   
 $W_y = 2,72 \text{ cm}^3$   
 PE (m)  
 6 / 24

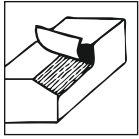
**40x40**



**05.01607.00**

M = 1,33 kg/m  
 $I_x = 8,92 \text{ cm}^4$   
 $W_x = 4,46 \text{ cm}^3$   
 $I_y = 8,92 \text{ cm}^4$   
 $W_y = 4,46 \text{ cm}^3$   
 PE (m)  
 3

Technische Änderungen vorbehalten





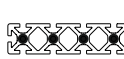


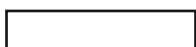
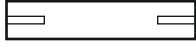
# PROFILBEARBEITUNG





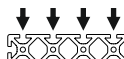
## PROFILE FINISHING



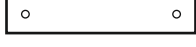
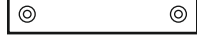
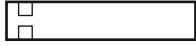

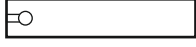
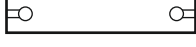
### USINAGE DE PROFILES



 1x	 2x	 4x	 3x	 4x
<b>20x20</b>	<b>20x40</b>	<b>40x40</b>	<b>20x60</b>	<b>20x80</b>

	<b>05.xxxxx.09</b>
M5x20 	<b>05.xxxxx.10</b>
M5x20  M5x20	<b>05.xxxxx.11</b>

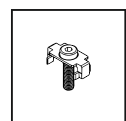
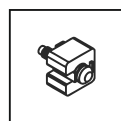
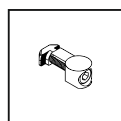
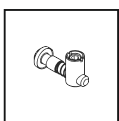
 1x	 2x	 4x	 3x	 4x
<b>20x20</b>	<b>20x40</b>	<b>40x40</b>	<b>20x60</b>	<b>20x80</b>

VSI 4.3 	<b>05.xxxxx.15</b> ■ 3.17	VSA 10 	<b>05.xxxxx.45</b> ■ 3.16
VSI 4.3  VSI 4.3	<b>05.xxxxx.16</b>	VSA 10  VSA 10	<b>05.xxxxx.46</b>
UNI 	<b>05.xxxxx.40</b> ■ 3.11		
UNI  UNI	<b>05.xxxxx.41</b>		
GV7,5 	<b>05.xxxxx.30</b> ■ 3.02		
GV7,5  GV7,5	<b>05.xxxxx.31</b>		

### 20x40

UNI 	<b>05.xxxxx.43</b> ■ 3.11
UNI  UNI	<b>05.xxxxx.44</b>

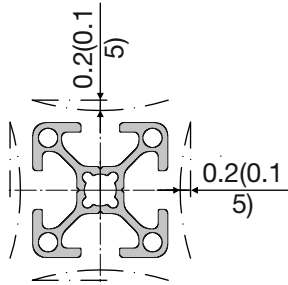
Technische Änderungen vorbehalten



# ALU-PROFILE PROFILES PROFILES



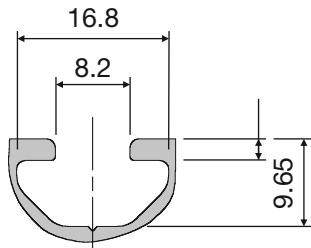
## Konkavität



30x30	30x30-1N	30x30-2N90	30x30-R
■ 2.13	■ 2.13	■ 2.13	■ 2.13

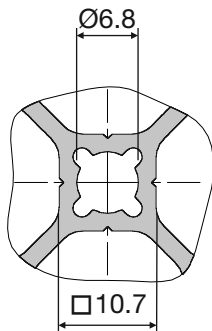
30x45	30x60	30x60-2N	30x60-3N90
■ 2.13	■ 2.14	■ 2.14	■ 2.14

## Nut 8E

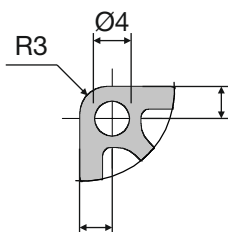


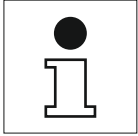
30x30KL	30x30KL-180°		
➔ ■ 2.15	➔ ■ 2.15		

## Kernloch



## Außenkante

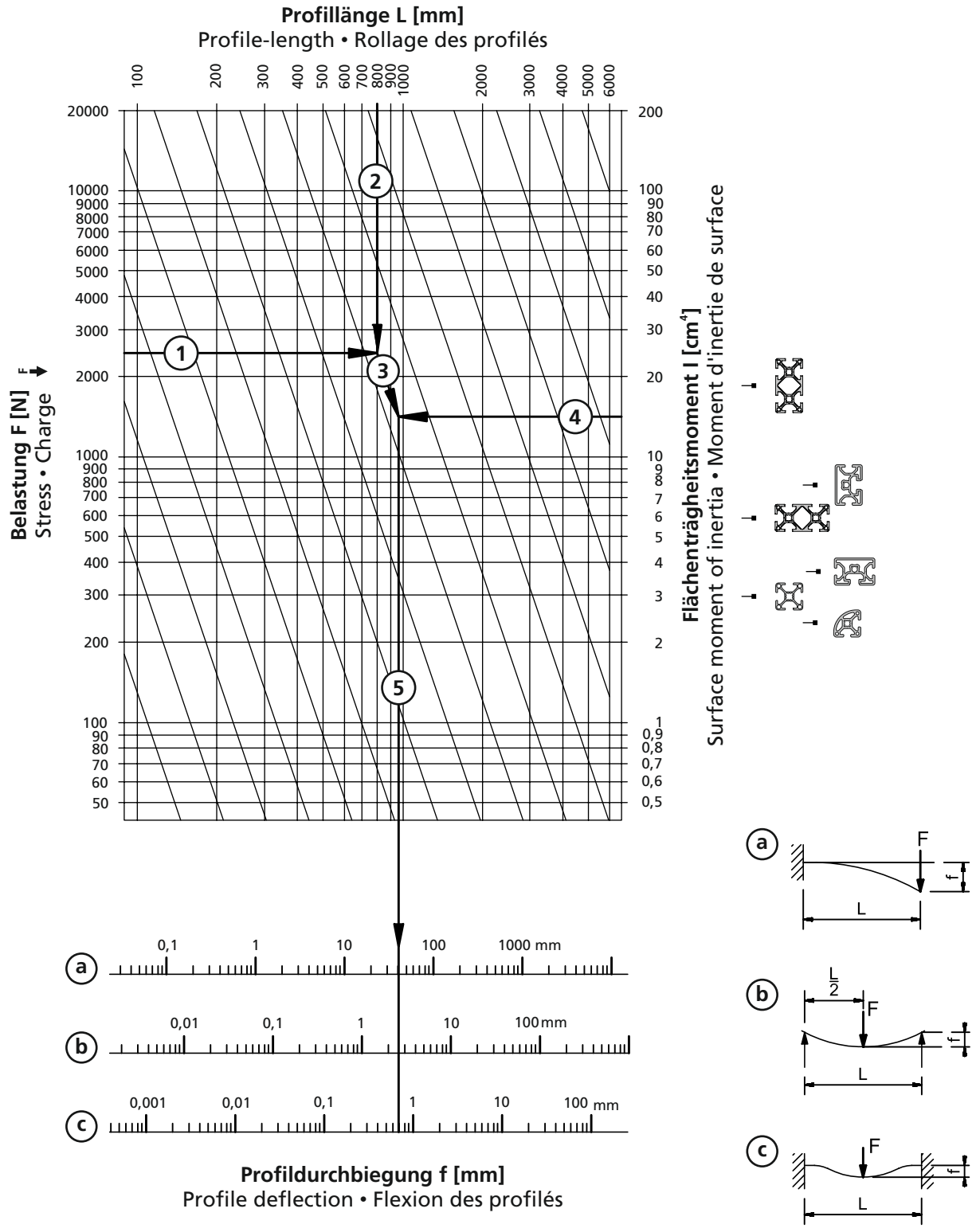




**Durchbiegung der Profile**

Profile deflection

Flexion des profilés

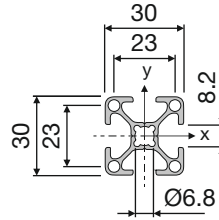
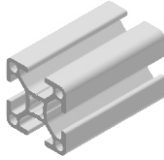


Technische Änderungen vorbehalten

# ALU-PROFILE PROFILES PROFILES



## 30x30

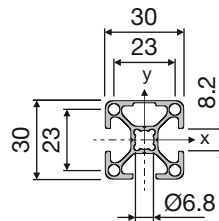
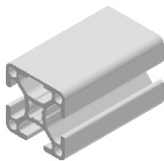


### 05.01025.00

M = 0,81 kg/m  
 $I_x = 2,78 \text{ cm}^4$   
 $W_x = 1,85 \text{ cm}^3$   
 $I_y = 2,78 \text{ cm}^4$   
 $W_y = 1,85 \text{ cm}^3$

PE (m)  
 6 / 72 / 144

## 30x30-1N

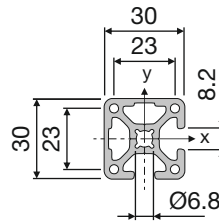
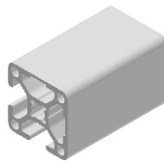


### 05.01915.00

M = 0,84 kg/m  
 $I_x = 2,95 \text{ cm}^4$   
 $W_x = 1,97 \text{ cm}^3$   
 $I_y = 2,78 \text{ cm}^4$   
 $W_y = 1,85 \text{ cm}^3$

PE (m)  
 6 / 72 / 144

## 30x30-2N90

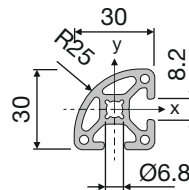
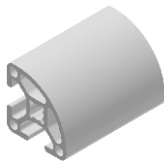


### 05.01916.00

M = 0,86 kg/m  
 $I_x = 2,96 \text{ cm}^4$   
 $W_x = 1,97 \text{ cm}^3$   
 $I_y = 2,96 \text{ cm}^4$   
 $W_y = 1,97 \text{ cm}^3$

PE (m)  
 6 / 72 / 144

## 30x30-R

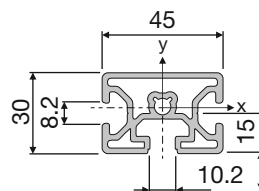
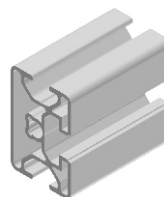


### 05.01925.00

M = 0,80 kg/m  
 $I_x = 2,40 \text{ cm}^4$   
 $W_x = 1,60 \text{ cm}^3$   
 $I_y = 2,40 \text{ cm}^4$   
 $W_y = 1,60 \text{ cm}^3$

PE (m)  
 6 / 72 / 144

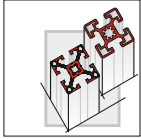
## 30x45



### 05.01923.00

M = 1,05 kg/m  
 $I_x = 7,97 \text{ cm}^4$   
 $W_x = 3,54 \text{ cm}^3$   
 $I_y = 3,75 \text{ cm}^4$   
 $W_y = 2,51 \text{ cm}^3$

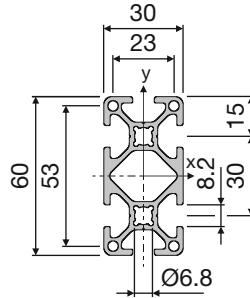
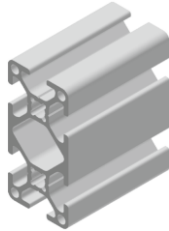
PE (m)  
 6 / 24 / 48 / 72



**ALU-PROFILE**  
**PROFILES**  
**PROFILES**



**30x60**

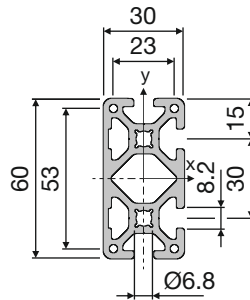
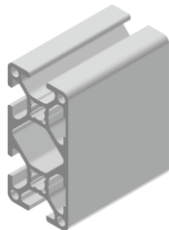


**05.01924.00**

M = 1,50 kg/m  
 $I_x = 19,10 \text{ cm}^4$   
 $W_x = 6,60 \text{ cm}^3$   
 $I_y = 5,64 \text{ cm}^4$   
 $W_y = 3,76 \text{ cm}^3$

PE (m)  
 6 / 36 / 72 / 108

**30x60-2N**

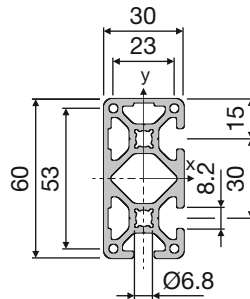
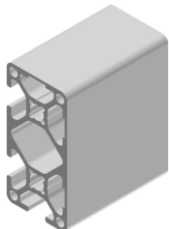


**05.01933.00**

M = 1,61 kg/m  
 $I_x = 20,48 \text{ cm}^4$   
 $W_x = 6,83 \text{ cm}^3$   
 $I_y = 6,07 \text{ cm}^4$   
 $W_y = 4,05 \text{ cm}^3$

PE (m)  
 3

**30x60-3N90**



**05.01928.00**

M = 1,61 kg/m  
 $I_x = 20,48 \text{ cm}^4$   
 $W_x = 6,83 \text{ cm}^3$   
 $I_y = 6,07 \text{ cm}^4$   
 $W_y = 4,05 \text{ cm}^3$

PE (m)  
 6 / 36 / 72 / 108

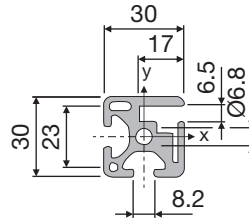
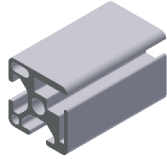
Technische Änderungen vorbehalten



# KLEMMPROFILE CLAMPING PROFILES PROFILE DE SERRAGE KL



## 30x30 KL



05.01919.00

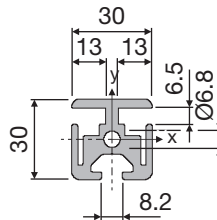
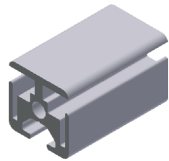
M = 1,04 kg/m  
I<sub>x</sub> = 3,40 cm<sup>4</sup>  
W<sub>x</sub> = 2,27 cm<sup>3</sup>  
I<sub>y</sub> = 3,10 cm<sup>4</sup>  
W<sub>y</sub> = 2,07 cm<sup>3</sup>

PE (m)  
6 / 72 / 144

Klemmleiste und Schrauben nicht im Lieferumfang enthalten  
Clamping strips and screws are not included  
Baguette et vis ne sont pas inclus

2

## 30x30 KL-180°



05.01921.00

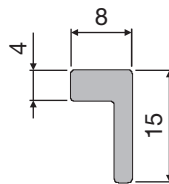
M = 1,16 kg/m  
I<sub>x</sub> = 3,61 cm<sup>4</sup>  
W<sub>x</sub> = 2,41 cm<sup>3</sup>  
I<sub>y</sub> = 3,45 cm<sup>4</sup>  
W<sub>y</sub> = 2,30 cm<sup>3</sup>

PE (m)  
6 / 72 / 144

Klemmleiste und Schrauben nicht im Lieferumfang enthalten  
Clamping strips and screws are not included  
Baguette et vis ne sont pas inclus

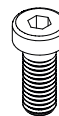
## Klemmleiste

Clamping strips · Baguette

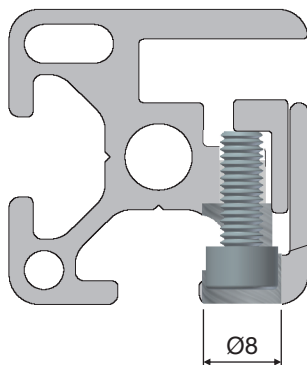


05.01922.00

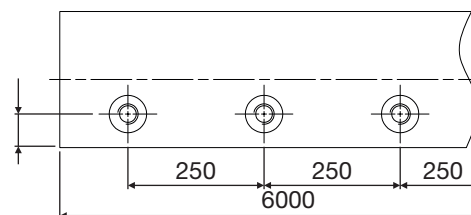
PE (m)  
6



99.00095.00

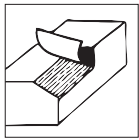


M4x12, DIN 7984  
Bitte separat bestellen  
Please order separately  
Commander séparément



Bohrungen bereits im Profil vorhanden  
Holes already provided in profiles  
Profils déjà usinés

Technische Änderungen vorbehalten



**PROFILBEARBEITUNG**  
**PROFILE FINISHING**  
**USINAGE DE PROFILES**



	<b>30x30</b>	<b>30x60</b>	
			<b>05.xxxxx.09</b>
M8x30			<b>05.xxxxx.10</b>
M8x30		M8x30	<b>05.xxxxx.11</b>

	<b>30x30</b>	<b>30x60</b>	
VSI 7			<b>05.xxxxx.15</b> ■ 3.17
VSI 7		VSI 7	<b>05.xxxxx.16</b>
BV11			<b>05.xxxxx.25</b> ■ 3.06
BV11		BV11	<b>05.xxxxx.26</b>
GV10.5			<b>05.xxxxx.30</b> ■ 3.02
GV10.5		GV10.5	<b>05.xxxxx.31</b>
UNI			<b>05.xxxxx.40</b> ■ 3.11
UNI		UNI	<b>05.xxxxx.41</b>
VSA 14			<b>05.xxxxx.45</b> ■ 3.16
VSA 14		VSA 14	<b>05.xxxxx.46</b>

	<b>30x60</b>	
BV11V		<b>05.xxxxx.85</b> ■ 3.06
BV11V		<b>05.xxxxx.86</b>
UNI		<b>05.xxxxx.43</b> ■ 3.11
UNI		<b>05.xxxxx.44</b>

Technische Änderungen vorbehalten

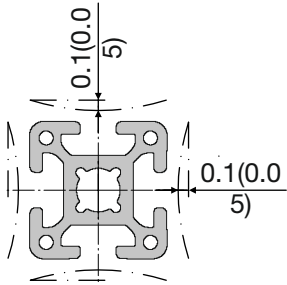


# ALU-PROFILE PROFILES PROFILES

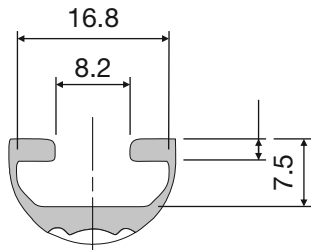


## Konkavität

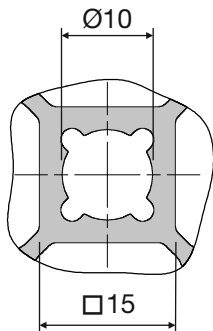
30x30-10K	30x60-10K	60x60-10K
■ 2.19	■ 2.19	■ 2.19



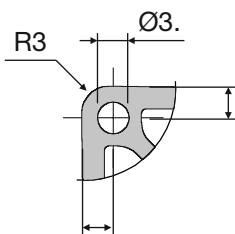
## Nut 8K



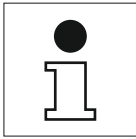
## Kernloch



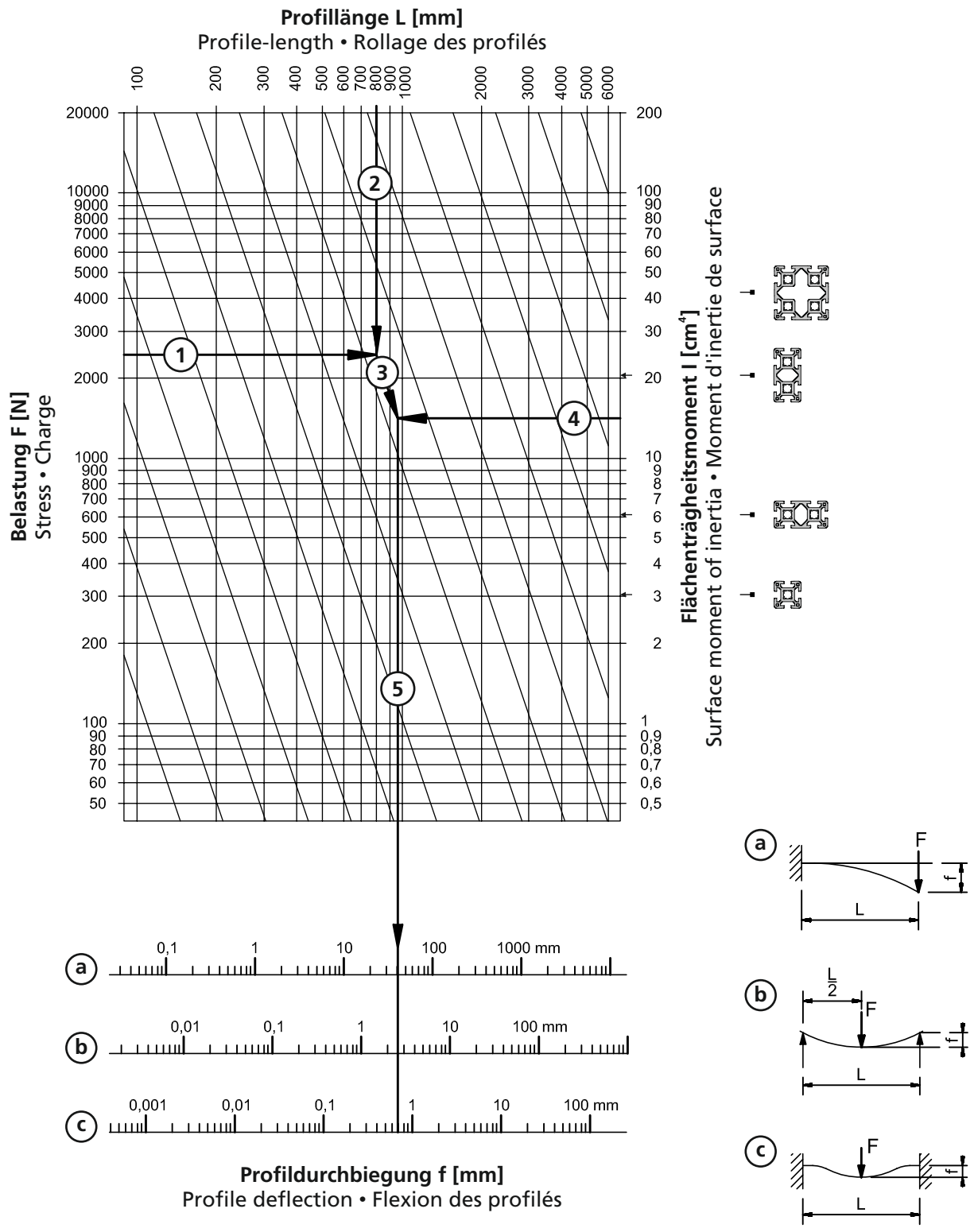
## Außenkante



Technische Änderungen vorbehalten



**Durchbiegung der Profile**  
**Profile deflection**  
**Flexion des profilés**

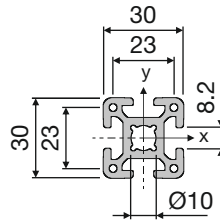
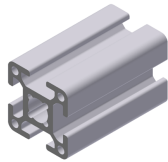


Technische Änderungen vorbehalten

**ALU-PROFILE**  
**PROFILES**  
**PROFILES**



**30x30-10K**

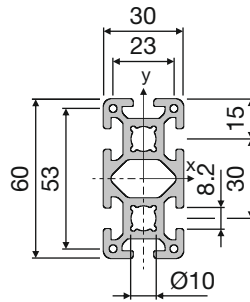
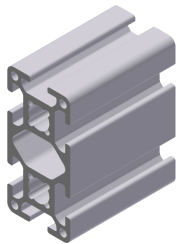


**05.01926.00**

M = 0,97 kg/m  
 $I_x = 3,17 \text{ cm}^4$   
 $W_x = 2,11 \text{ cm}^3$   
 $I_y = 3,17 \text{ cm}^4$   
 $W_y = 2,11 \text{ cm}^3$   
 PE (m)  
 6 / 72 / 144



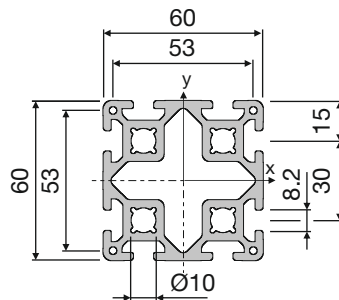
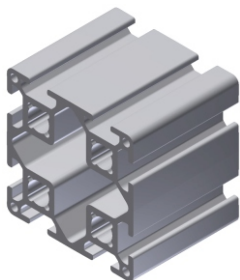
**30x60-10K**



**05.01927.00**

M = 1,81 kg/m  
 $I_x = 22,55 \text{ cm}^4$   
 $W_x = 7,52 \text{ cm}^3$   
 $I_y = 6,33 \text{ cm}^4$   
 $W_y = 4,22 \text{ cm}^3$   
 PE (m)  
 6 / 36 / 72 / 108

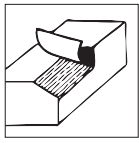
**60x60-10K**



**05.01960.00**



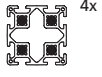






M = 3,00 kg/m  
 $I_x = 42,67 \text{ cm}^4$   
 $W_x = 14,22 \text{ cm}^3$   
 $I_y = 42,67 \text{ cm}^4$   
 $W_y = 14,22 \text{ cm}^3$   
 PE (m)  
 6 / 36 / 72 / 108



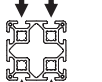



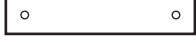

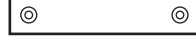


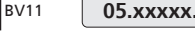



Technische Änderungen vorbehalten




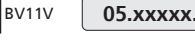


**PROFILBEARBEITUNG**  
**PROFILE FINISHING**  
**USINAGE DE PROFILES**

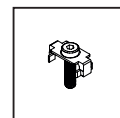
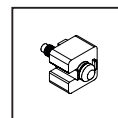
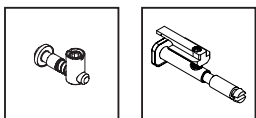


		
<b>30x30-10K</b>	<b>30x60-10K</b>	<b>60x60-10K</b>
		
		<b>05.xxxxx.09</b>
M12x60 		<b>05.xxxxx.10</b>
M12x60  M12x60 		<b>05.xxxxx.11</b>

		
<b>30x30-10K</b>	<b>30x60-10K</b>	<b>60x60-10K</b>
VSI 7 	VSI 7 	VSA 14 
		<b>05.xxxxx.15</b> ■ 3.17
VSI 7 	VSI 7 	VSA 14 
		<b>05.xxxxx.16</b>
BV11 		<b>05.xxxxx.25</b> ■ 3.06
BV11 	BV11 	<b>05.xxxxx.26</b>
GV 		<b>05.xxxxx.30</b> ■ 3.02
GV 	GV 	<b>05.xxxxx.31</b>

		
<b>30x60-10K</b>		
BV11V 	<b>05.xxxxx.85</b> ■ 3.06	
BV11V 	BV11V 	<b>05.xxxxx.86</b>

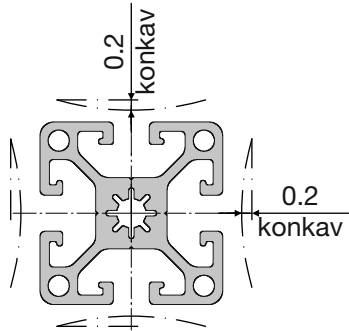
Technische Änderungen vorbehalten



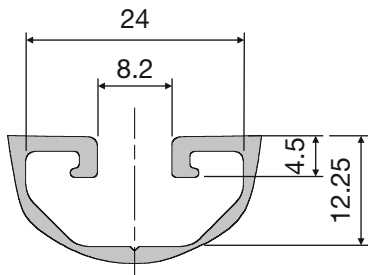
# ALU-PROFILE PROFILES PROFILES



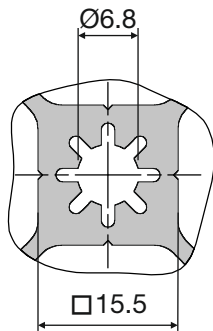
## Konkavität



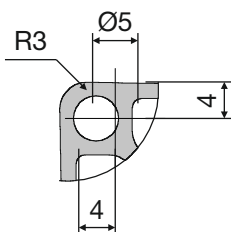
## Nut 8



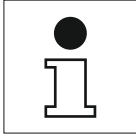
## Kernloch



## Außenkante



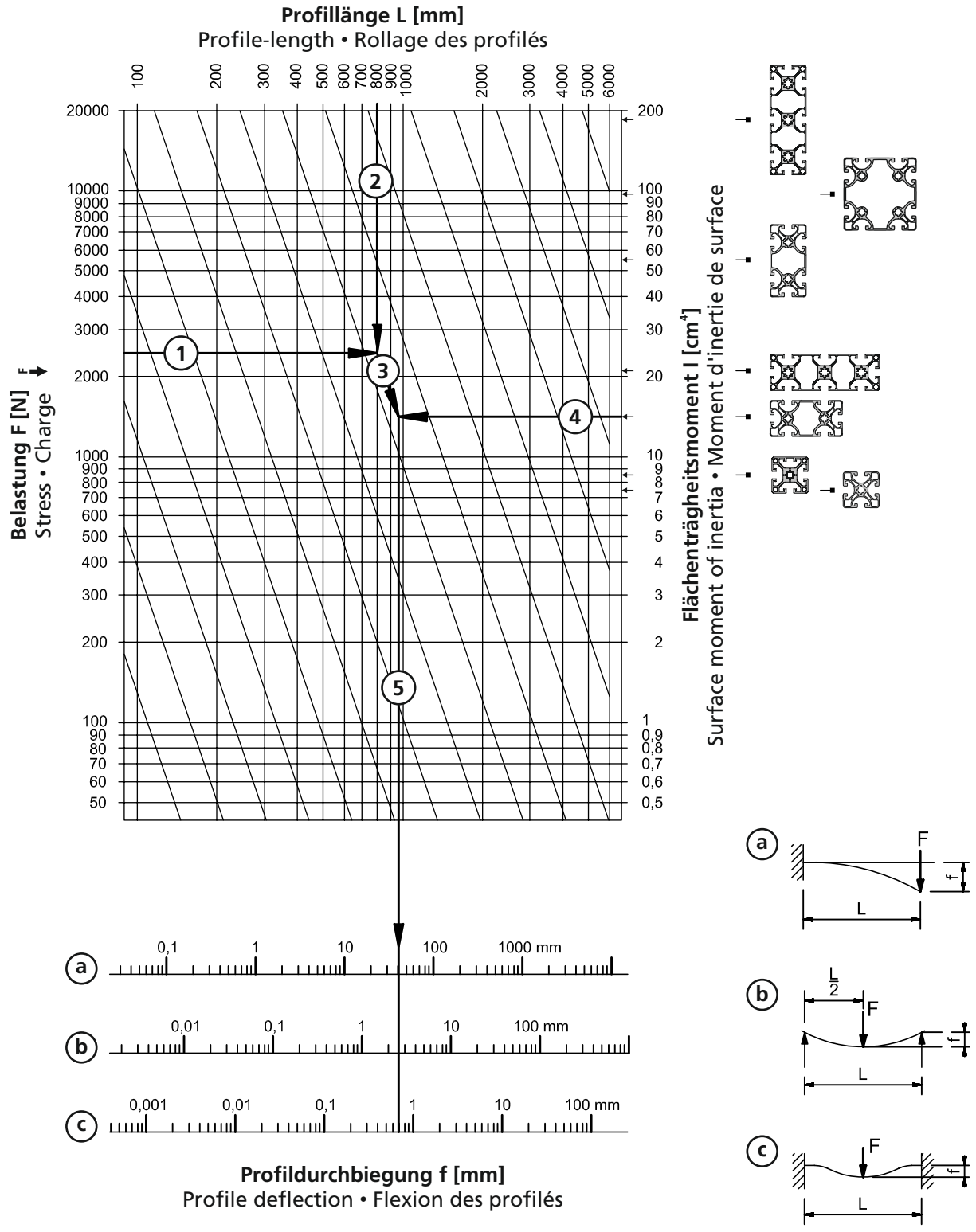
40x40EL-1.4	40x40L-1.55	40x40L-1N	40x40L-2N90
■ 2.23	■ 2.23	■ 2.23	■ 2.23
40x40L-2N180	40x80EL-2.45	40x80L-2.65	40x80L-2N
■ 2.23	■ 2.24	■ 2.24	■ 2.24
40x80L-3N	40x120L	80x80L	
■ 2.25	■ 2.25	■ 2.25	



**Durchbiegung der Profile**

Profile deflection

Flexion des profilés



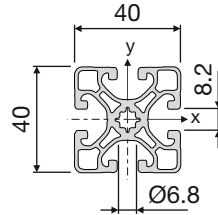
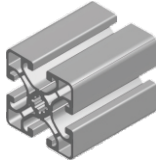
Technische Änderungen vorbehalten



# ALU-PROFILE PROFILES PROFILES



## 40x40 EL-1.4

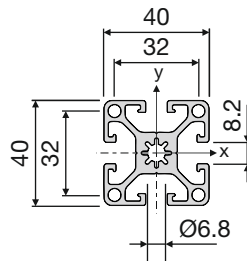
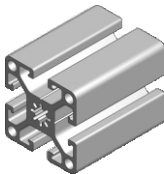


**05.02163.00**

M = 1,37 kg/m  
 $I_x = 7,42 \text{ cm}^4$   
 $W_x = 3,71 \text{ cm}^3$   
 $I_y = 7,42 \text{ cm}^4$   
 $W_y = 3,71 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

## 40x40 L-1.55

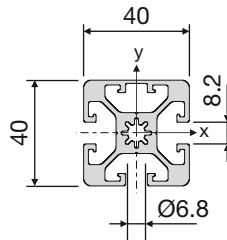
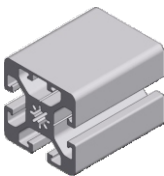


**05.01035.00**

M = 1,53 kg/m  
 $I_x = 8,40 \text{ cm}^4$   
 $W_x = 4,20 \text{ cm}^3$   
 $I_y = 8,40 \text{ cm}^4$   
 $W_y = 4,20 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

## 40x40 L-1N

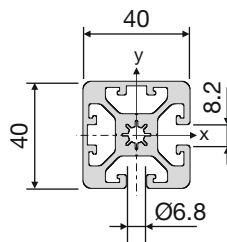
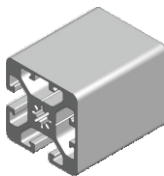


**05.01130.00**

M = 1,56 kg/m  
 $I_x = 8,73 \text{ cm}^4$   
 $W_x = 4,36 \text{ cm}^3$   
 $I_y = 8,41 \text{ cm}^4$   
 $W_y = 4,21 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

## 40x40 L-2N90

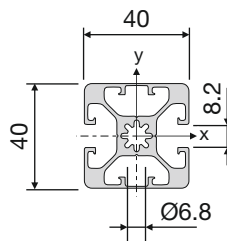
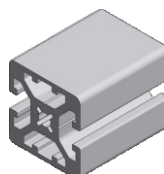


**05.01131.00**

M = 1,59 kg/m  
 $I_x = 8,74 \text{ cm}^4$   
 $W_x = 4,37 \text{ cm}^3$   
 $I_y = 8,73 \text{ cm}^4$   
 $W_y = 4,36 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

## 40x40 L-2N180

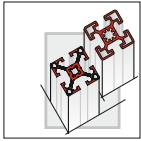


**05.01132.00**

M = 1,59 kg/m  
 $I_x = 9,06 \text{ cm}^4$   
 $W_x = 4,53 \text{ cm}^3$   
 $I_y = 8,42 \text{ cm}^4$   
 $W_y = 4,21 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

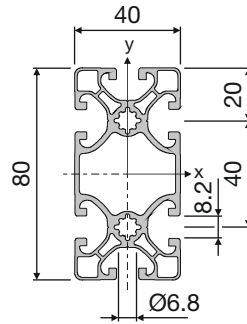
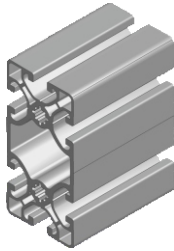
Technische Änderungen vorbehalten



**ALU-PROFILE**  
PROFILES  
PROFILES



**40x80 EL-2.45**

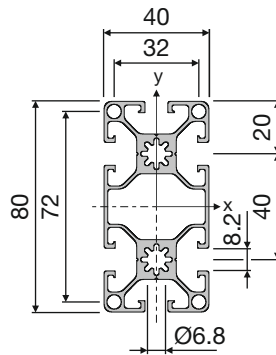
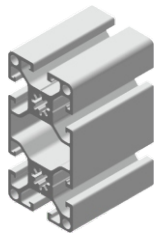


**05.02164.00**

M = 2,41 kg/m  
 $I_x = 55,44 \text{ cm}^4$   
 $W_x = 13,80 \text{ cm}^3$   
 $I_y = 14,90 \text{ cm}^4$   
 $W_y = 7,45 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72

**40x80 L-2.65**

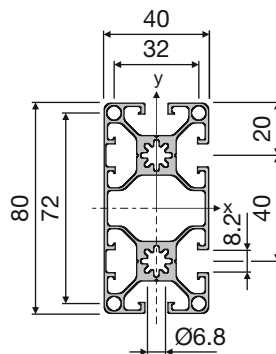
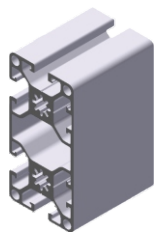


**05.01036.00**

M = 2,58 kg/m  
 $I_x = 61,26 \text{ cm}^4$   
 $W_x = 15,32 \text{ cm}^3$   
 $I_y = 14,87 \text{ cm}^4$   
 $W_y = 7,44 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72

**40x80 L-2N**



**05.01037.00**

M = 2,63 kg/m  
 $I_x = 61,97 \text{ cm}^4$   
 $W_x = 15,49 \text{ cm}^3$   
 $I_y = 15,52 \text{ cm}^4$   
 $W_y = 7,76 \text{ cm}^3$

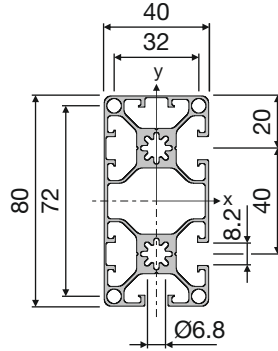
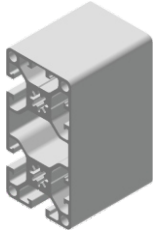
PE (m)  
 6 / 24 / 48 / 72

Technische Änderungen vorbehalten

**ALU-PROFILE**  
**PROFILES**  
**PROFILES**



**40x80 L-3N**



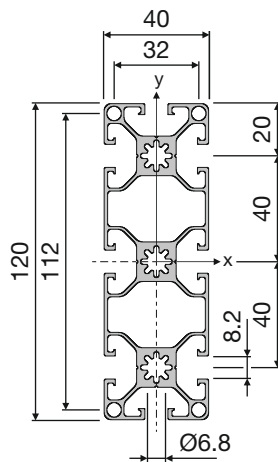
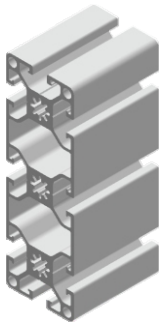
**05.01038.00**

M = 2,65 kg/m  
 $I_x = 63,33 \text{ cm}^4$   
 $W_x = 15,83 \text{ cm}^3$   
 $I_y = 15,53 \text{ cm}^4$   
 $W_y = 7,77 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72



**40x120 L**

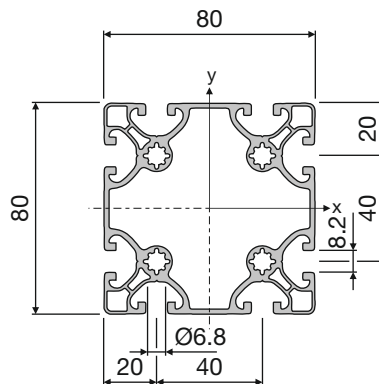
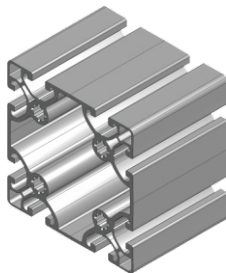


**05.01046.00**

M = 3,66 kg/m  
 $I_x = 190,62 \text{ cm}^4$   
 $W_x = 31,77 \text{ cm}^3$   
 $I_y = 21,32 \text{ cm}^4$   
 $W_y = 10,36 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72

**80x80 L**

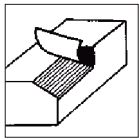


**05.02165.00**

M = 3,62 kg/m  
 $I_x = 99,47 \text{ cm}^4$   
 $W_x = 24,90 \text{ cm}^3$   
 $I_y = 99,47 \text{ cm}^4$   
 $W_y = 24,90 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72

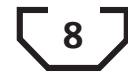
Technische Änderungen vorbehalten



# PROFILBEARBEITUNG

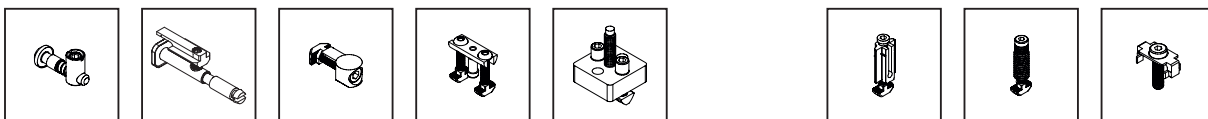
## PROFILE FINISHING

### USINAGE DE PROFILES



	1x	2x	3x	4x		
					05.xxxxx.09	
M8x40					05.xxxxx.10	M12x60
M8x40					05.xxxxx.11	M12x60
VSI 7					05.xxxxx.15 ■ 3.17	UNI
VSI 7					05.xxxxx.16	UNI
BV14					05.xxxxx.25 ■ 3.06	VSA 14
BV14					05.xxxxx.26	VSA 14
GV14					05.xxxxx.30 ■ 3.02	
GV14					05.xxxxx.31	
AGV					05.xxxxx.35 ■ 3.04	
AGV					05.xxxxx.36	
BV14V					05.xxxxx.85 ■ 3.06	UNI
BV14V					05.xxxxx.86	UNI
AGV					05.xxxxx.83 ■ 3.04	
AGV					05.xxxxx.84	

Technische Änderungen vorbehalten

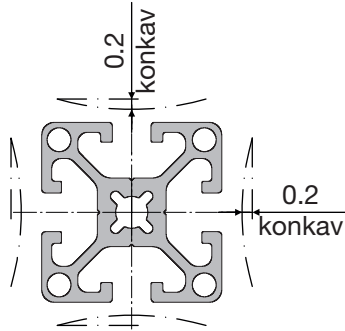


# ALU-PROFILE PROFILES PROFILES



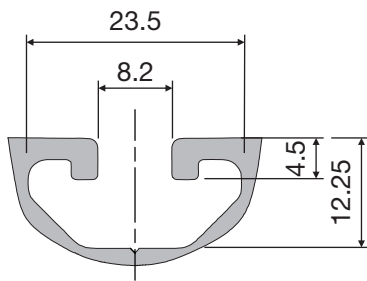
## Konkavität

40x40N    40x40-1N    40x40-2N90    40x40-2N180

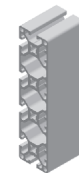
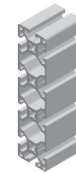
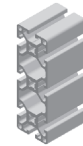
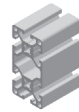


■ 2.31    ■ 2.31    ■ 2.31    ■ 2.31  
40x40N-45°    40x40N-R

## Nu

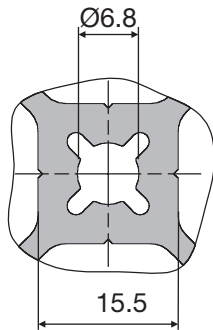


■ 2.32    ■ 2.32    ■ 2.32    ■ 2.32  
40x80N    40x120N    40x160N    40x160N-4N



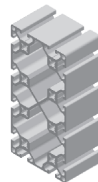
■ 2.32    ■ 2.32    ■ 2.33    ■ 2.33

## Kernloch

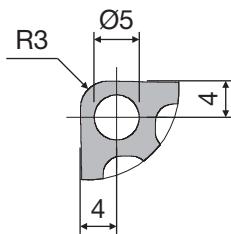


80x80N    80x80N-2N80x80N-4N90

■ 2.34    ■ 2.34    ■ 2.34  
80x120N    80x160N    40x40 KL 40x40 KL-180°



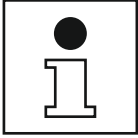
## Außenkante



■ 2.35    ■ 2.35    ■ 2.37    ■ 2.37  
40R80-30°    40R80-45°    40R80-60°    40R80-90°

■ 2.36    ■ 2.36    ■ 2.36    ■ 2.36

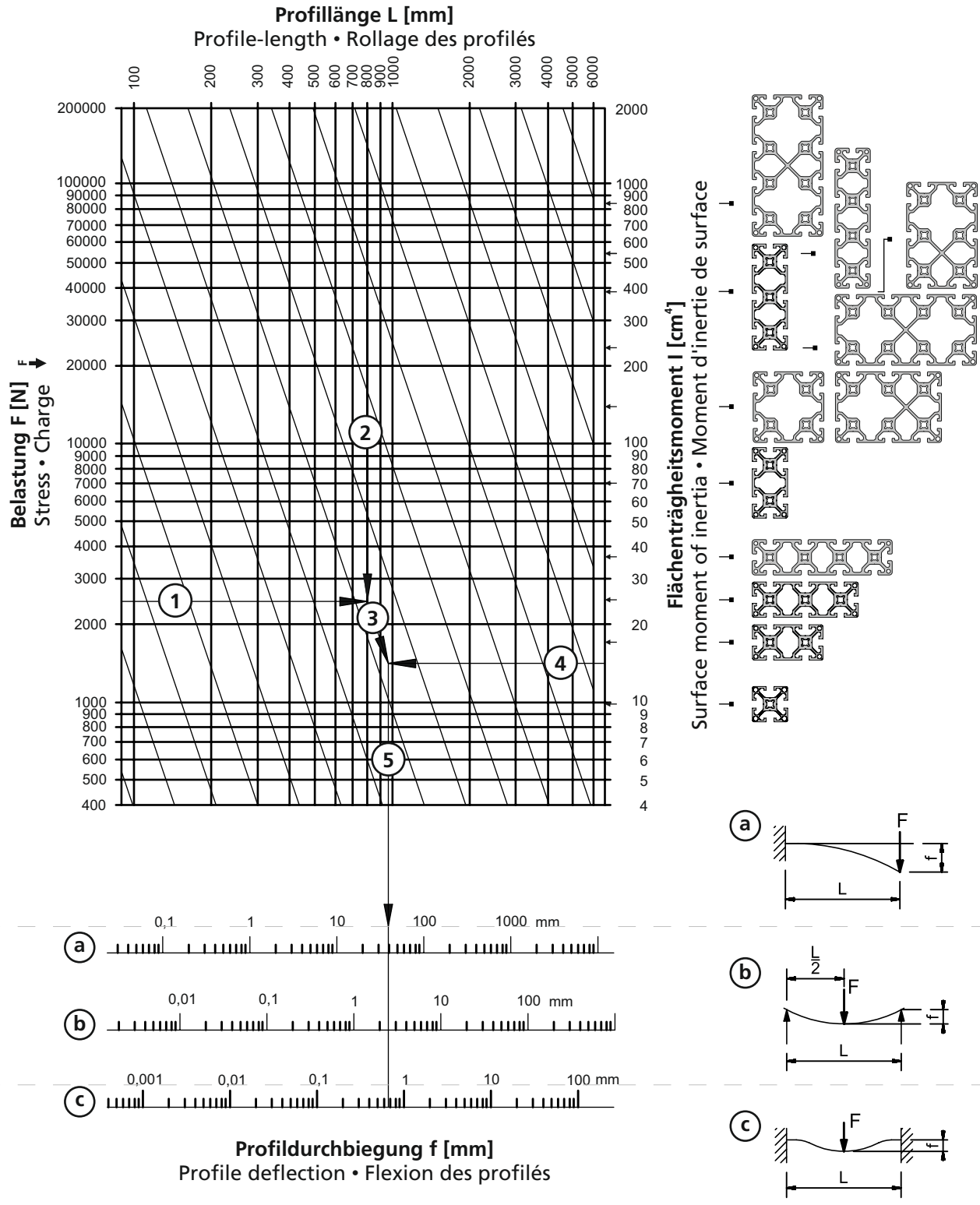
Technische Änderungen vorbehalten



**Durchbiegung der Profile**

Profile deflection

Flexion des profilés

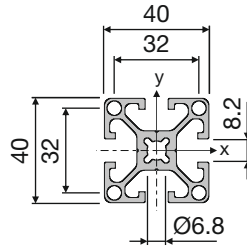
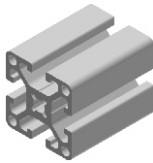


Technische Änderungen vorbehalten

# ALU-PROFILE PROFILES PROFILES



## 40x40 N

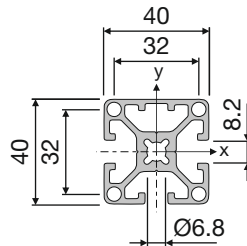
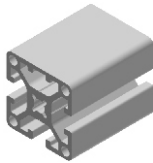


### 05.01002.00

M = 1,72 kg/m  
 $I_x = 9,66 \text{ cm}^4$   
 $W_x = 4,83 \text{ cm}^3$   
 $I_y = 9,66 \text{ cm}^4$   
 $W_y = 4,83 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

## 40x40 N-1N

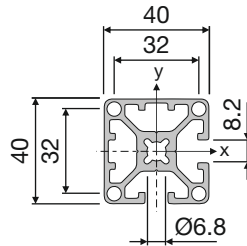
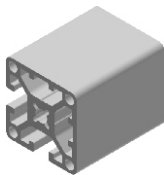


### 05.01026.00

M = 1,75 kg/m  
 $I_x = 10,06 \text{ cm}^4$   
 $W_x = 5,03 \text{ cm}^3$   
 $I_y = 9,52 \text{ cm}^4$   
 $W_y = 4,76 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

## 40x40 N-2N90

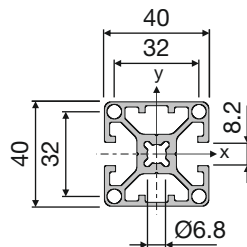
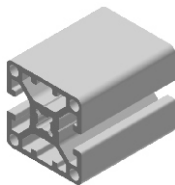


### 05.01027.00

M = 1,79 kg/m  
 $I_x = 10,07 \text{ cm}^4$   
 $W_x = 5,04 \text{ cm}^3$   
 $I_y = 10,07 \text{ cm}^4$   
 $W_y = 5,04 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

## 40x40 N-2N180

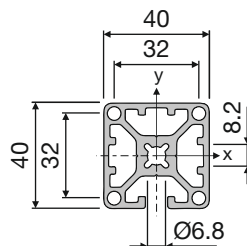
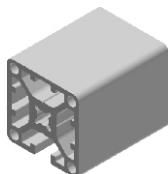


### 05.01028.00

M = 1,79 kg/m  
 $I_x = 10,61 \text{ cm}^4$   
 $W_x = 5,31 \text{ cm}^3$   
 $I_y = 9,53 \text{ cm}^4$   
 $W_y = 4,77 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

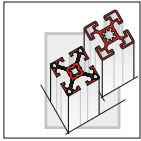
## 40x40 N-3N



### 05.01536.00

M = 1,83 kg/m  
 $I_x = 10,62 \text{ cm}^4$   
 $W_x = 5,31 \text{ cm}^3$   
 $I_y = 10,66 \text{ cm}^4$   
 $W_y = 5,33 \text{ cm}^3$

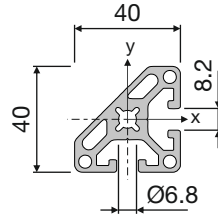
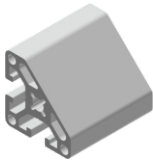
PE (m)  
 6 / 48 / 96 / 144



**ALU-PROFILE**  
PROFILES  
PROFILES



**40x40 N-45°**

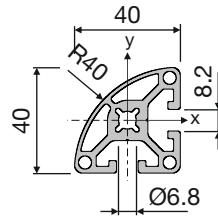
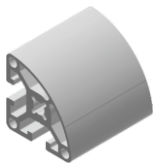


**05.01029.00**

M = 1,51 kg/m  
I<sub>x</sub> = 7,50 cm<sup>4</sup>  
W<sub>x</sub> = 3,75 cm<sup>3</sup>  
I<sub>y</sub> = 7,50 cm<sup>4</sup>  
W<sub>y</sub> = 3,75 cm<sup>3</sup>

PE (m)  
6 / 48 / 96 / 144

**40x40 N-R**

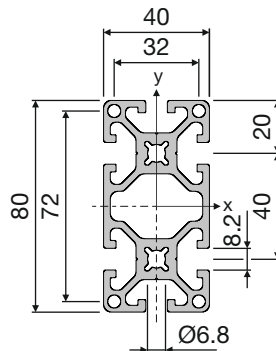
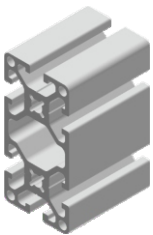


**05.01943.00**

M = 1,42 kg/m  
I<sub>x</sub> = 7,02 cm<sup>4</sup>  
W<sub>x</sub> = 3,51 cm<sup>3</sup>  
I<sub>y</sub> = 7,02 cm<sup>4</sup>  
W<sub>y</sub> = 3,51 cm<sup>3</sup>

PE (m)  
6 / 48 / 96 / 144

**40x80 N**

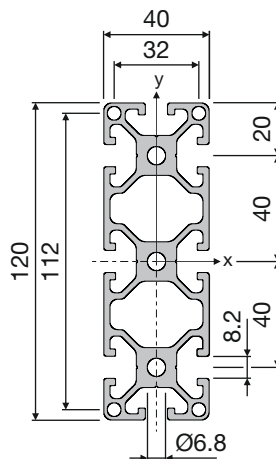
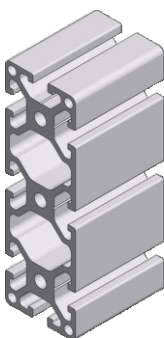


**05.01003.00**

M = 3,08 kg/m  
I<sub>x</sub> = 70,34 cm<sup>4</sup>  
W<sub>x</sub> = 17,59 cm<sup>3</sup>  
I<sub>y</sub> = 18,33 cm<sup>4</sup>  
W<sub>y</sub> = 9,17 cm<sup>3</sup>

PE (m)  
6 / 24 / 48 / 72

**40x120 N**



**05.01047.00**

M = 4,40 kg/m  
I<sub>x</sub> = 222,16 cm<sup>4</sup>  
W<sub>x</sub> = 37,03 cm<sup>3</sup>  
I<sub>y</sub> = 27,00 cm<sup>4</sup>  
W<sub>y</sub> = 13,50 cm<sup>3</sup>

PE (m)  
6 / 24 / 48 / 72

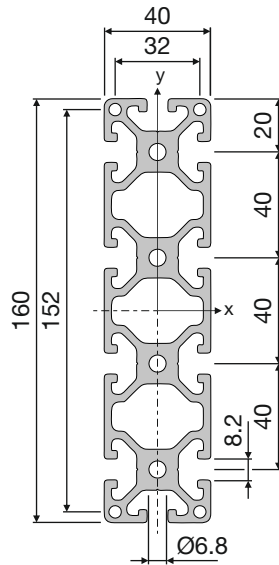
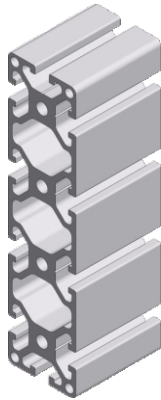
Technische Änderungen vorbehalten



**ALU-PROFILE**  
**PROFILES**  
**PROFILES**



**40x160 N**

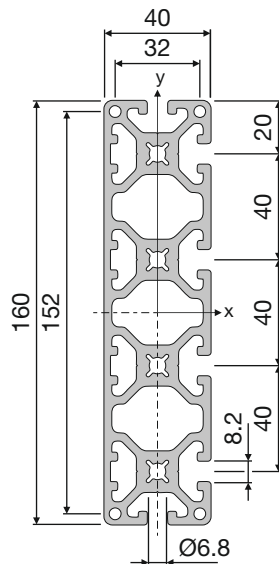
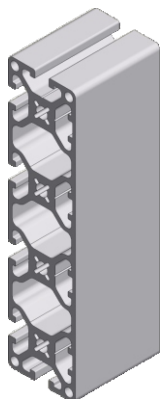


**05.01820.00**

M = 5,80 kg/m  
 $I_x = 503,40 \text{ cm}^4$   
 $W_x = 62,93 \text{ cm}^3$   
 $I_y = 37,28 \text{ cm}^4$   
 $W_y = 18,64 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72

**40x160 N-4N**

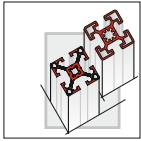


**05.01819.00**

M = 6,00 kg/m  
 $I_x = 514,34 \text{ cm}^4$   
 $W_x = 64,30 \text{ cm}^3$   
 $I_y = 37,28 \text{ cm}^4$   
 $W_y = 18,64 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72

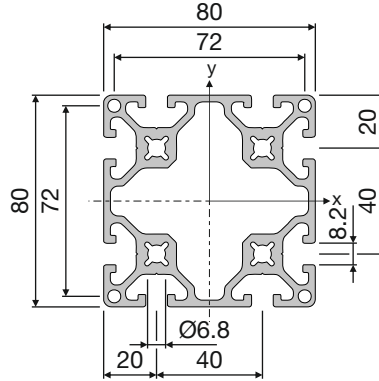
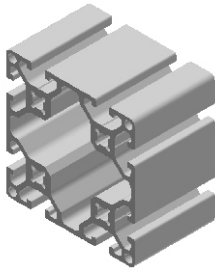
Technische Änderungen vorbehalten



**ALU-PROFILE**  
PROFILES  
PROFILES



**80x80 N**

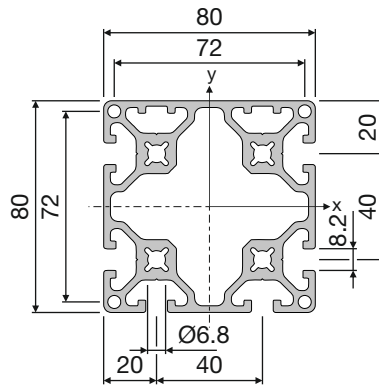
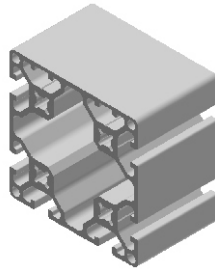


**05.01004.00**

M = 5,00 kg/m  
 $I_x = 125,70 \text{ cm}^4$   
 $W_x = 31,42 \text{ cm}^3$   
 $I_y = 125,70 \text{ cm}^4$   
 $W_y = 31,42 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72

**80x80 N-2N**

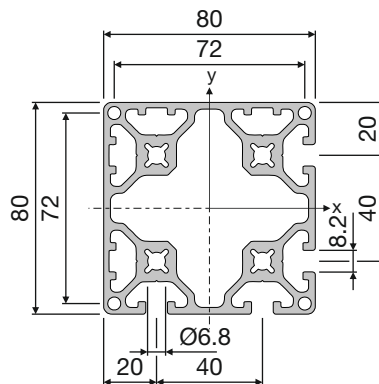
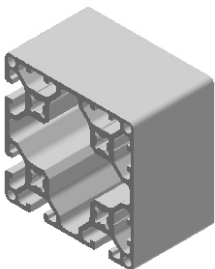


**05.01931.00**

M = 4,96 kg/m  
 $I_x = 130,31 \text{ cm}^4$   
 $W_x = 32,58 \text{ cm}^3$   
 $I_y = 126,94 \text{ cm}^4$   
 $W_y = 31,74 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72

**80x80 N-4N90**



**05.01932.00**

M = 5,05 kg/m  
 $I_x = 131,64 \text{ cm}^4$   
 $W_x = 32,91 \text{ cm}^3$   
 $I_y = 131,48 \text{ cm}^4$   
 $W_y = 32,87 \text{ cm}^3$

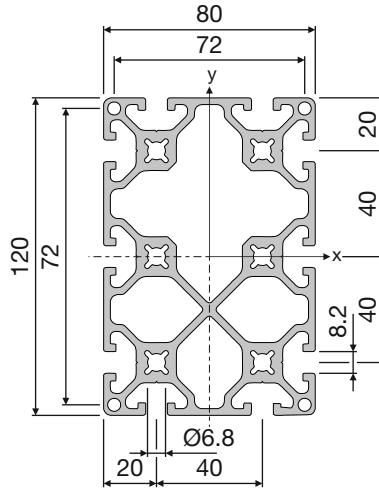
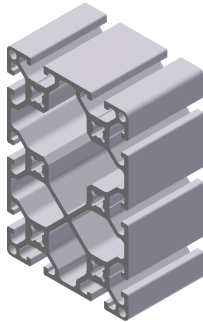
PE (m)  
 6 / 24 / 48 / 72

Technische Änderungen vorbehalten

**ALU-PROFILE**  
**PROFILES**  
**PROFILES**



**80x120 N**

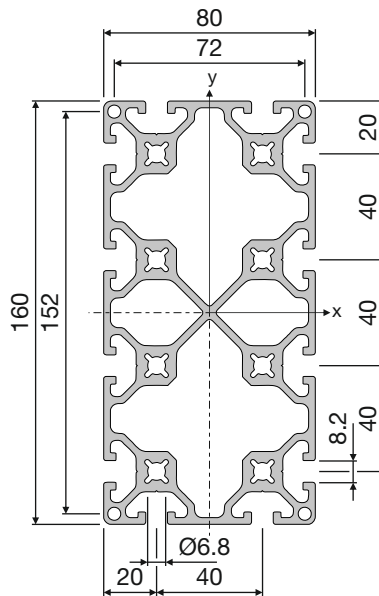
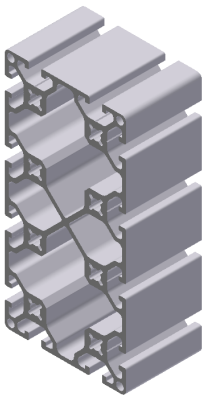


**05.01823.00**

M = 7,16 kg/m  
 $I_x = 384,71 \text{ cm}^4$   
 $W_x = 64,14 \text{ cm}^3$   
 $I_y = 182,71 \text{ cm}^4$   
 $W_y = 45,68 \text{ cm}^3$

PE (m)  
 6 / 12 / 24 / 36

**80x160 N**

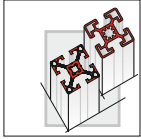


**05.01824.00**

M = 8,86 kg/m  
 $I_x = 820,19 \text{ cm}^4$   
 $W_x = 102,52 \text{ cm}^3$   
 $I_y = 238,14 \text{ cm}^4$   
 $W_y = 59,54 \text{ cm}^3$

PE (m)  
 6 / 12 / 24 / 36

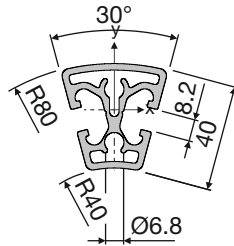
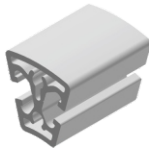
Technische Änderungen vorbehalten



**ALU-PROFILE**  
PROFILES  
PROFILES



**40R80 - 30°**

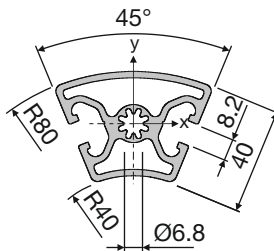


**05.01866.00**

M = 1,62 kg/m  
I<sub>x</sub> = 9,76 cm<sup>4</sup>  
W<sub>x</sub> = 4,80 cm<sup>3</sup>  
I<sub>y</sub> = 4,88 cm<sup>4</sup>  
W<sub>y</sub> = 3,07 cm<sup>3</sup>

PE (m)  
6 / 48 / 96 / 144

**40R80 - 45°**

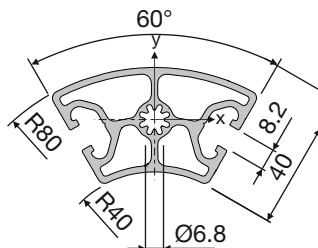
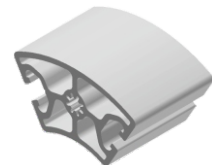


**05.01867.00**

M = 2,20 kg/m  
I<sub>x</sub> = 12,50 cm<sup>4</sup>  
W<sub>x</sub> = 5,63 cm<sup>3</sup>  
I<sub>y</sub> = 19,36 cm<sup>4</sup>  
W<sub>y</sub> = 6,53 cm<sup>3</sup>

PE (m)  
6 / 36 / 72 / 108

**40R80 - 60°**

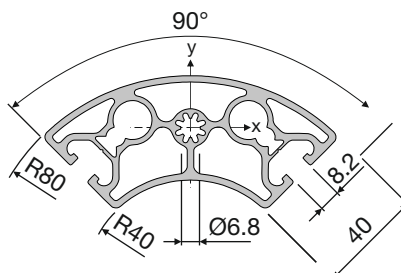
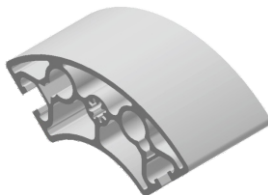


**05.01868.00**

M = 2,78 kg/m  
I<sub>x</sub> = 16,45 cm<sup>4</sup>  
W<sub>x</sub> = 6,76 cm<sup>3</sup>  
I<sub>y</sub> = 41,28 cm<sup>4</sup>  
W<sub>y</sub> = 10,62 cm<sup>3</sup>

PE (m)  
6 / 24 / 48 / 72

**40R80 - 90°**



**05.01869.00**

M = 3,92 kg/m  
I<sub>x</sub> = 25,70 cm<sup>4</sup>  
W<sub>x</sub> = 9,51 cm<sup>3</sup>  
I<sub>y</sub> = 123,94 cm<sup>4</sup>  
W<sub>y</sub> = 22,42 cm<sup>3</sup>

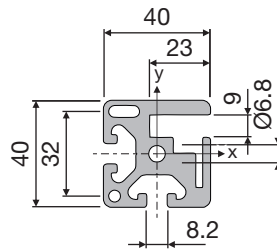
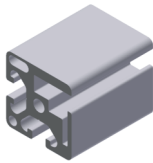
PE (m)  
6 / 18 / 36 / 54

Technische Änderungen vorbehalten

# ALU-PROFILE PROFILES PROFILES



## 40x40 KL



05.01940.00

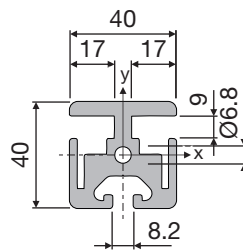
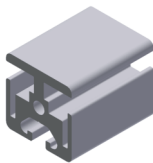
M = 2,10 kg/m  
 $I_x = 11,98 \text{ cm}^4$   
 $W_x = 5,99 \text{ cm}^3$   
 $I_y = 10,75 \text{ cm}^4$   
 $W_y = 5,38 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

Klemmleiste und Schrauben nicht im Lieferumfang enthalten  
 Clamping strips and screws are not included  
 Baguette et vis ne sont pas inclus

2

## 40x40 KL-180°



05.01942.00

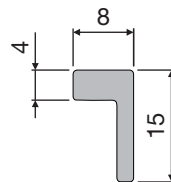
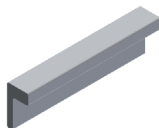
M = 2,26 kg/m  
 $I_x = 13,05 \text{ cm}^4$   
 $W_x = 6,53 \text{ cm}^3$   
 $I_y = 11,51 \text{ cm}^4$   
 $W_y = 5,76 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

Klemmleiste und Schrauben nicht im Lieferumfang enthalten  
 Clamping strips and screws are not included  
 Baguette et vis ne sont pas inclus

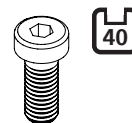
## Klemmleiste

Clamping strips · Baguette

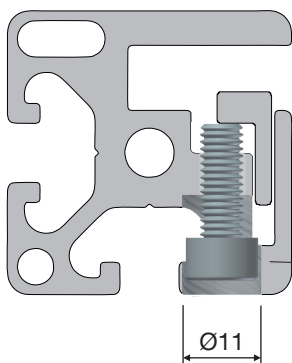


05.01922.00

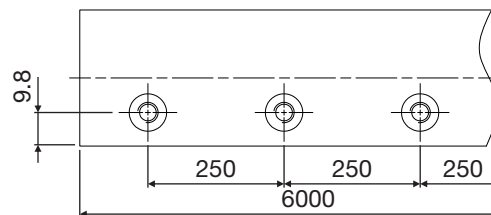
PE (m)  
 6



99.00005.00

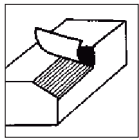


M6x16, DIN 7984  
 Bitte separat bestellen  
 Please order separately  
 Commander séparément



Bohrungen bereits im Profil vorhanden  
 Holes already provided in profiles  
 Profilés déjà usinés

Technische Änderungen vorbehalten



# PROFILBEARBEITUNG

## PROFILE FINISHING

### USINAGE DE PROFILES



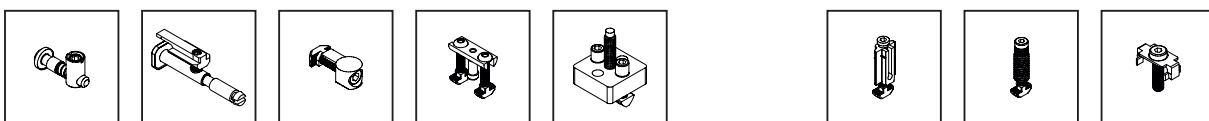
	1x	2x	3x	4x	4x	6x	8x
	<b>40x40</b>	<b>40x80</b>	<b>40x120</b>	<b>40x160</b>	<b>80x80</b>	<b>80x120</b>	<b>80x160</b>
		05.xxxxx.09					
M8x40		05.xxxxx.10		M12x60		05.xxxxx.12	
M8x40		M8x40	05.xxxxx.11	M12x60		M12x60	05.xxxxx.13

	<b>40x40</b>	<b>40x80</b>	<b>40x120</b>	<b>40x160</b>	<b>80x80</b>	<b>80x120</b>	<b>80x160</b>
VSI 7							
		05.xxxxx.15 ■ 3.17		UNI		05.xxxxx.40 ■ 3.11	
VSI 7		VSI 7	05.xxxxx.16	UNI		UNI	05.xxxxx.41
BV14		05.xxxxx.25 ■ 3.06		VSA 14		05.xxxxx.45 ■ 3.16	
BV14		BV14	05.xxxxx.26	VSA 14		VSA 14	05.xxxxx.46
GV14		05.xxxxx.30 ■ 3.02					
GV14		GV14	05.xxxxx.31				

### 40x80

BV14V		05.xxxxx.85 ■ 3.06	UNI		05.xxxxx.43 ■ 3.11
BV14V		05.xxxxx.86	UNI		05.xxxxx.44

Technische Änderungen vorbehalten



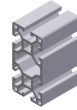
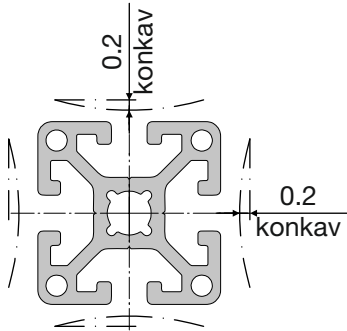
# ALU-PROFILE PROFILES PROFILES



## Konkavität

40x40 N-10K

40x80 N-10K

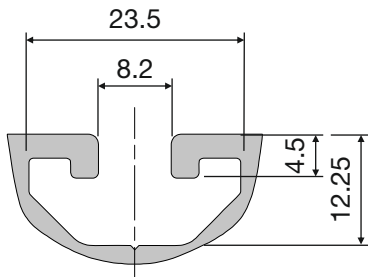


■ 2.41

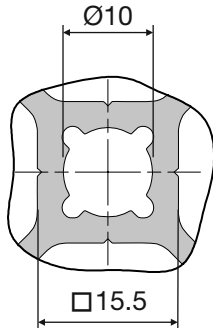
■ 2.41

2

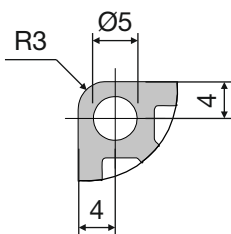
## Nut 8



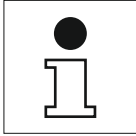
## Kernloch



## Außenkante



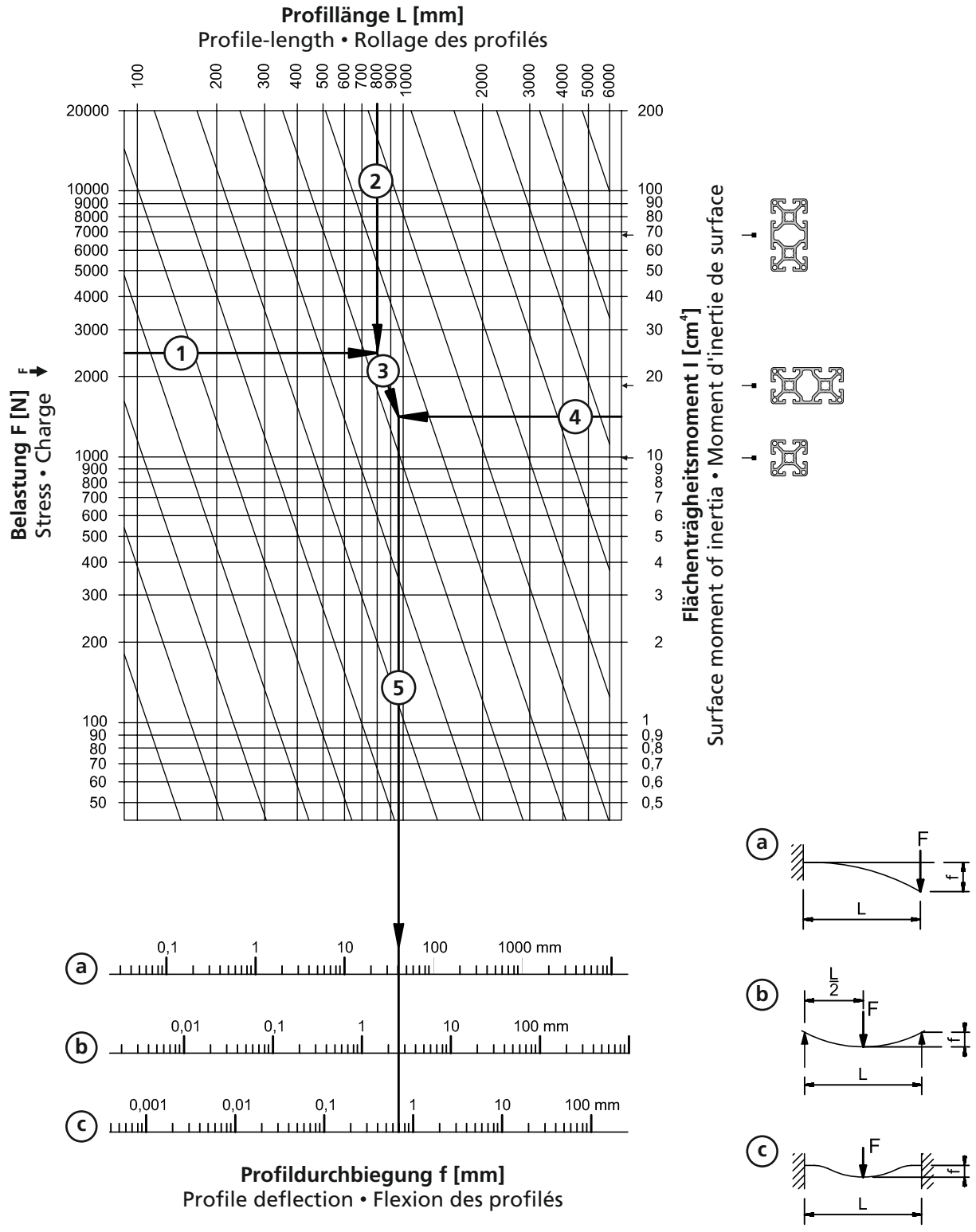
Technische Änderungen vorbehalten



**Durchbiegung der Profile**

Profile deflection

Flexion des profilés



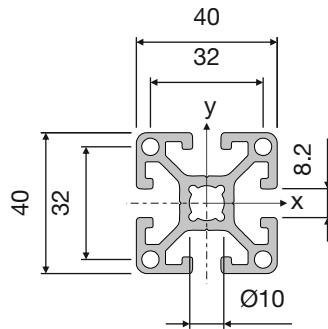
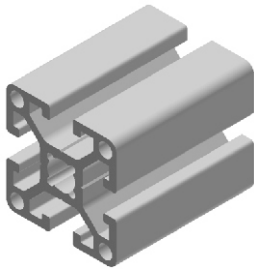
Technische Änderungen vorbehalten



**ALU-PROFILE**  
**PROFILES**  
**PROFILES**



**40x40 N-10K**



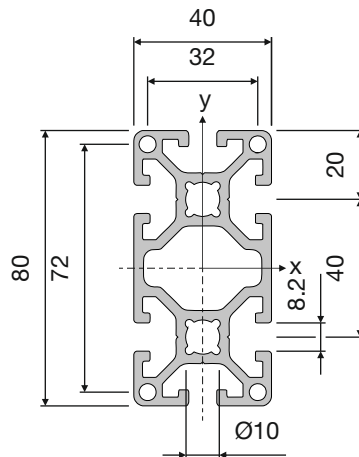
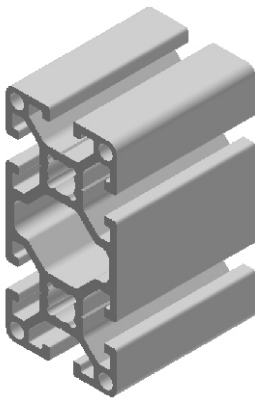
**05.01133.00**

M = 1,60 kg/m  
 $I_x = 9,46 \text{ cm}^4$   
 $W_x = 4,73 \text{ cm}^3$   
 $I_y = 9,46 \text{ cm}^4$   
 $W_y = 4,73 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144



**40x80 N-10K**

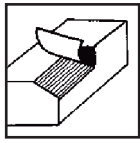


**05.01134.00**

M = 3,00 kg/m  
 $I_x = 66,48 \text{ cm}^4$   
 $W_x = 16,99 \text{ cm}^3$   
 $I_y = 18,41 \text{ cm}^4$   
 $W_y = 9,49 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72

Technische Änderungen vorbehalten



**PROFILBEARBEITUNG**  
**PROFILE FINISHING**  
**USINAGE DE PROFILES**

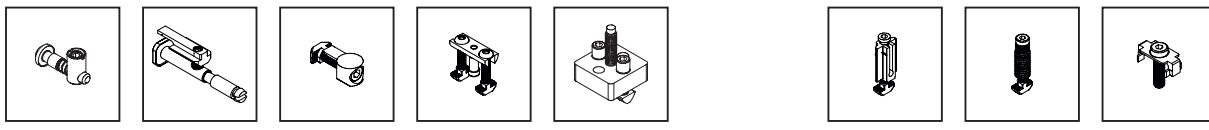


	<b>40x40-10K</b>		<b>05.xxxxx.09</b>
	<b>40x80-10K</b>		
M12x60		<b>05.xxxxx.12</b>	
M12x60		M12x60	<b>05.xxxxx.13</b>

	<b>40x40-10K</b>		<b>05.xxxxx.15</b> ■ 3.17	UNI		<b>05.xxxxx.40</b> ■ 3.11
	<b>40x80-10K</b>			UNI		<b>05.xxxxx.41</b>
VSI 7		VSI 7	<b>05.xxxxx.16</b>	VSA 14		<b>05.xxxxx.45</b> ■ 3.16
BV14		BV14	<b>05.xxxxx.25</b> ■ 3.06	VSA 14		<b>05.xxxxx.46</b>
BV14		BV14	<b>05.xxxxx.26</b>			
GV14			<b>05.xxxxx.30</b> ■ 3.02			
GV14		GV14	<b>05.xxxxx.31</b>			
AGV			<b>05.xxxxx.35</b> ■ 3.04			
AGV		AGV	<b>05.xxxxx.36</b>			

	<b>40x80</b>					
BV14V		BV14V	<b>05.xxxxx.85</b> ■ 3.06	UNI		<b>05.xxxxx.43</b> ■ 3.11
BV14V		BV14V	<b>05.xxxxx.86</b>	UNI		<b>05.xxxxx.44</b>
AGV			<b>05.xxxxx.83</b> ■ 3.04			
AGV		AKV	<b>05.xxxxx.84</b>			

Technische Änderungen vorbehalten

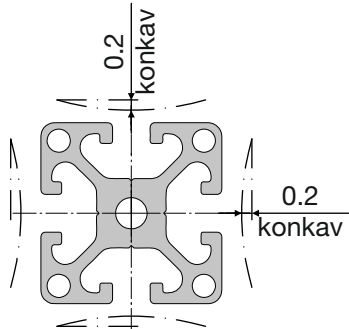


# ALU-PROFILE PROFILES PROFILES

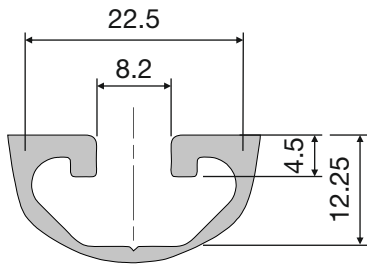


## Konkavität

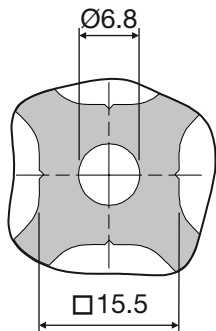
40x40MS	40x80MS	80x80MS
■ 2.45	■ 2.45	■ 2.45



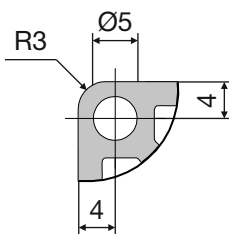
## Nut 8

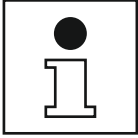


## Kernloch



## Außenkante

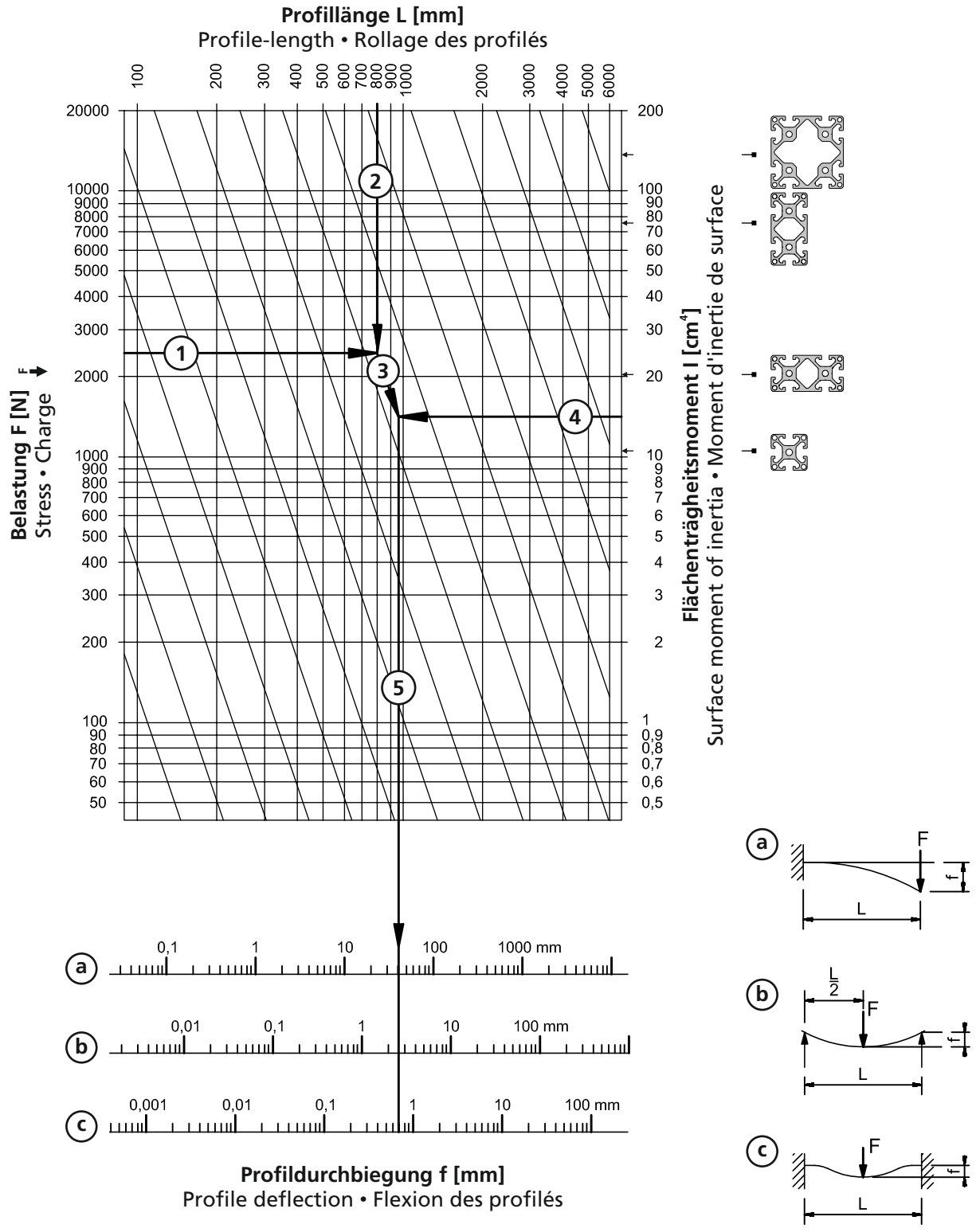




**Durchbiegung der Profile**

Profile deflection

Flexion des profilés

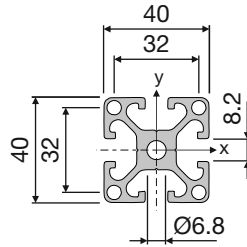
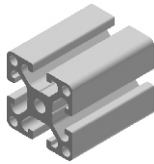


Technische Änderungen vorbehalten

**ALU-PROFILE**  
**PROFILES**  
**PROFILES**



**40x40 MS**

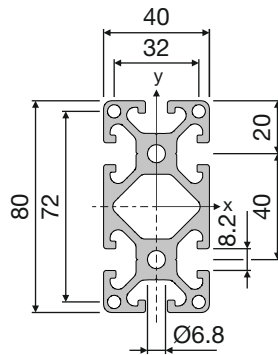
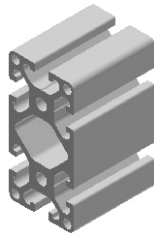


**05.01114.00**

M = 1,90 kg/m  
 $I_x = 10,52 \text{ cm}^4$   
 $W_x = 5,26 \text{ cm}^3$   
 $I_y = 10,52 \text{ cm}^4$   
 $W_y = 5,26 \text{ cm}^3$   
 PE (m)  
 6 / 48 / 96 / 144



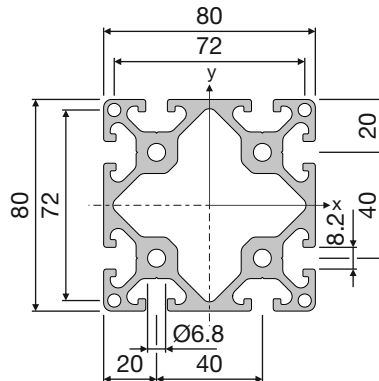
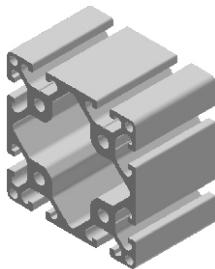
**40x80 MS**



**05.01115.00**

M = 3,55 kg/m  
 $I_x = 77,43 \text{ cm}^4$   
 $W_x = 18,98 \text{ cm}^3$   
 $I_y = 21,34 \text{ cm}^4$   
 $W_y = 10,67 \text{ cm}^3$   
 PE (m)  
 6 / 24 / 48 / 72

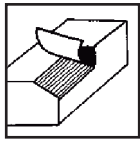
**80x80 MS**



**05.01116.00**

M = 5,66 kg/m  
 $I_x = 144,01 \text{ cm}^4$   
 $W_x = 36,00 \text{ cm}^3$   
 $I_y = 144,01 \text{ cm}^4$   
 $W_y = 36,00 \text{ cm}^3$   
 PE (m)  
 6 / 24 / 48 / 72

Technische Änderungen vorbehalten



# PROFILBEARBEITUNG

## PROFILE FINISHING

### USINAGE DE PROFILES

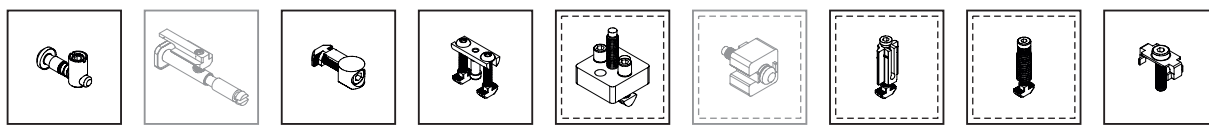


<b>40x40</b>	<b>40x80</b>	<b>80x80</b>	
	<b>05.xxxxx.09</b>		
M8x40	<b>05.xxxxx.10</b>		M12x60
M8x40	<b>05.xxxxx.11</b>		M12x60

<b>40x40</b>	<b>40x80</b>	<b>80x80</b>	
VSI 7	<b>05.xxxxx.15</b> ■ 3.17		UNI
VSI 7	<b>05.xxxxx.16</b>		UNI
BV14	<b>05.xxxxx.25</b> ■ 3.06		VSA 14
BV14	<b>05.xxxxx.26</b>		VSA 14
GV14	<b>05.xxxxx.30</b> ■ 3.02		
GV14	<b>05.xxxxx.31</b>		
AGV	<b>05.xxxxx.35</b> ■ 3.04		
AGV	<b>05.xxxxx.36</b>		

	<b>40x80</b>		
BV14V	<b>05.xxxxx.85</b> ■ 3.06		UNI
BV14V	<b>05.xxxxx.86</b>		UNI
AGV	<b>05.xxxxx.83</b> ■ 3.04		
AGV	<b>05.xxxxx.84</b>		

Technische Änderungen vorbehalten



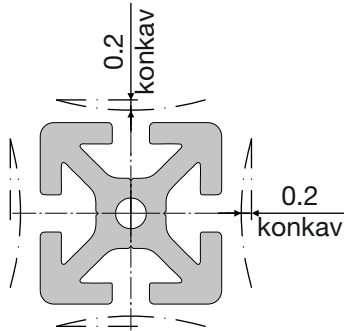
# ALU-PROFILE

## PROFILES

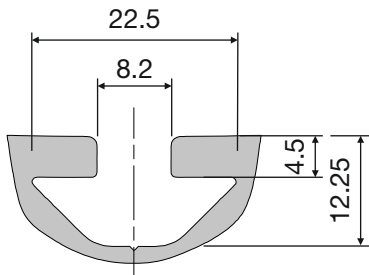
## PROFILES



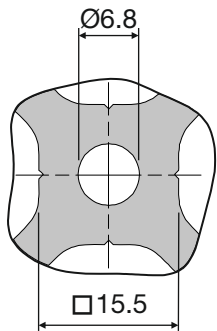
### Konkavität



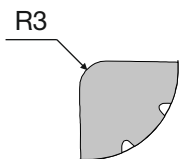
### Nut 8S



### Kernloch



### Außenkante



40x40S	40x80S	40x120S	40x160S
■ 2.49	■ 2.49	■ 2.49	■ 2.50
80x80S	80x120S	80x160S	
■ 2.50	■ 2.51	■ 2.51	
120x120S	120x160S		
■ 2.52	■ 2.52		

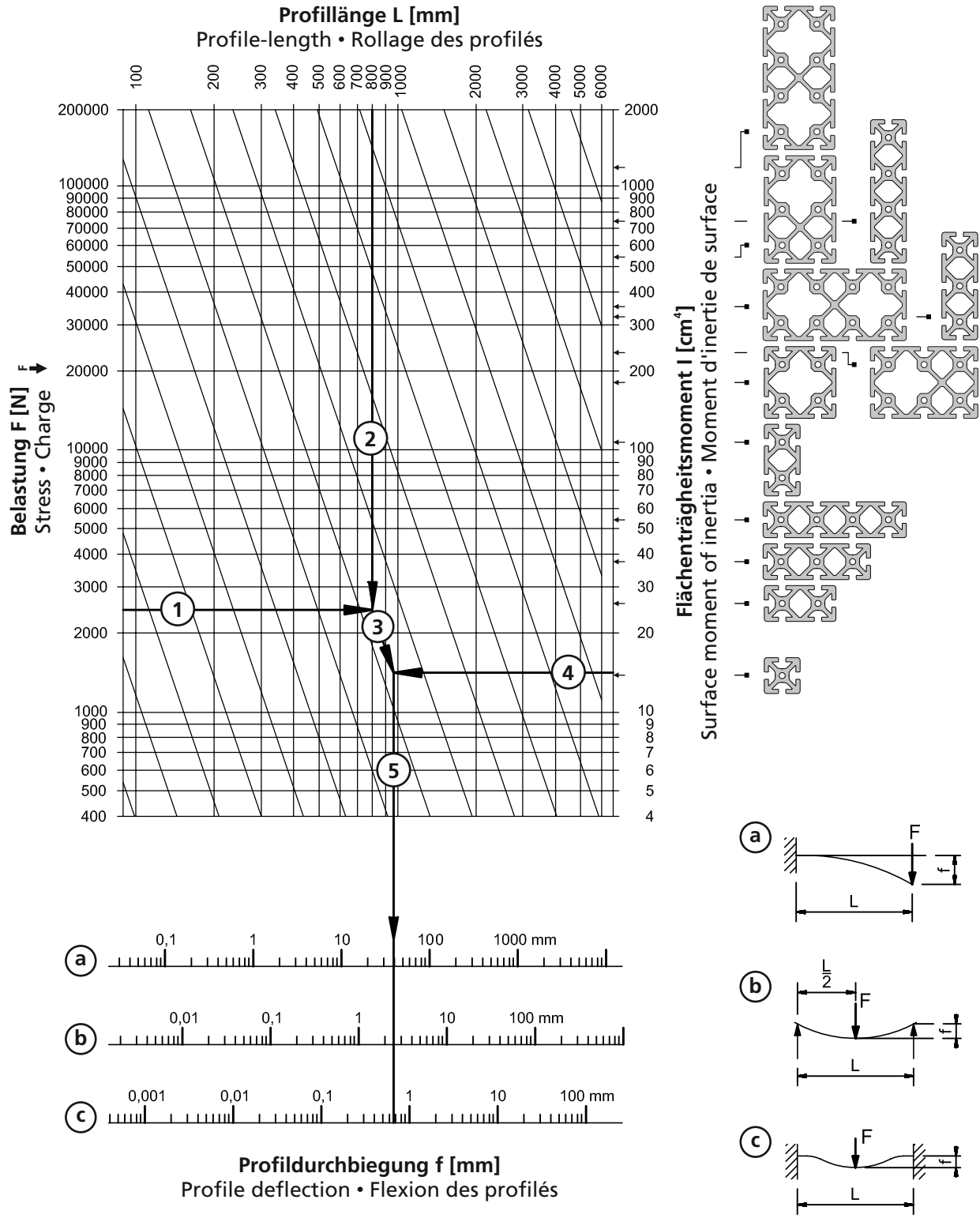
Technische Änderungen vorbehalten



**Durchbiegung der Profile**

Profile deflection

Flexion des profilés



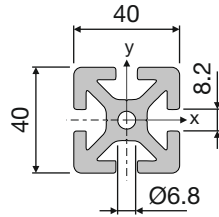
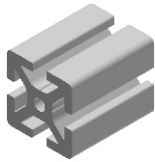
Technische Änderungen vorbehalten



**ALU-PROFILE**  
**PROFILES**  
**PROFILES**



**40x40 S**

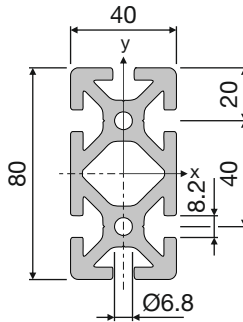
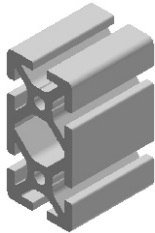


**05.01005.00**

M = 2,45 kg/m  
 $I_x = 13,90 \text{ cm}^4$   
 $W_x = 6,95 \text{ cm}^3$   
 $I_y = 13,90 \text{ cm}^4$   
 $W_y = 6,95 \text{ cm}^3$   
 PE (m)  
 6 / 48 / 96 / 144



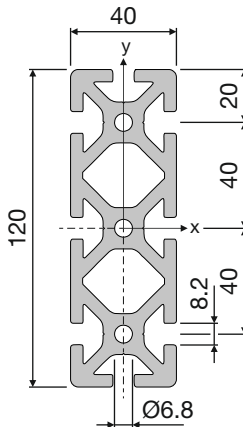
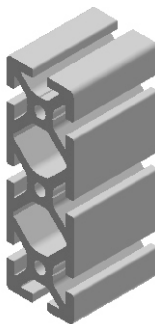
**40x80 S**



**05.01006.00**

M = 4,38 kg/m  
 $I_x = 99,52 \text{ cm}^4$   
 $W_x = 24,88 \text{ cm}^3$   
 $I_y = 26,31 \text{ cm}^4$   
 $W_y = 13,16 \text{ cm}^3$   
 PE (m)  
 6 / 24 / 48 / 72

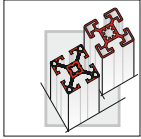
**40x120 S**



**05.01008.00**

M = 6,33 kg/m  
 $I_x = 314,79 \text{ cm}^4$   
 $W_x = 153,17 \text{ cm}^3$   
 $I_y = 38,73 \text{ cm}^4$   
 $W_y = 19,80 \text{ cm}^3$   
 PE (m)  
 6 / 24 / 48 / 72

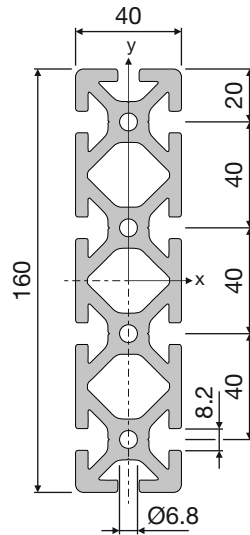
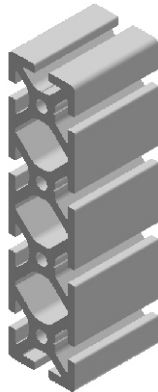
Technische Änderungen vorbehalten



**ALU-PROFILE**  
**PROFILES**  
**PROFILES**



**40x160 S**

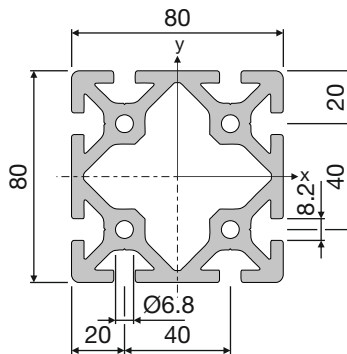
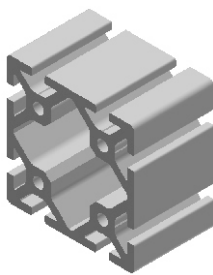


**05.01814.00**

M = 8,28 kg/m  
 $I_x = 717,64 \text{ cm}^4$   
 $W_x = 89,71 \text{ cm}^3$   
 $I_y = 51,14 \text{ cm}^4$   
 $W_y = 25,14 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72

**80x80 S**



**05.01007.00**

M = 6,88 kg/m  
 $I_x = 179,43 \text{ cm}^4$   
 $W_x = 44,86 \text{ cm}^3$   
 $I_y = 179,43 \text{ cm}^4$   
 $W_y = 44,86 \text{ cm}^3$

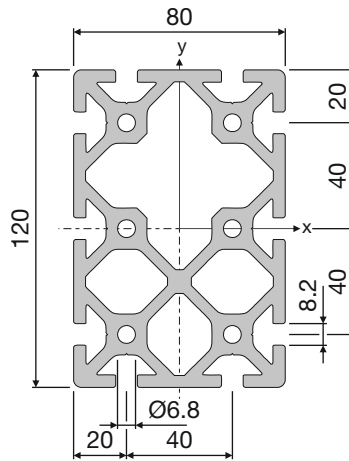
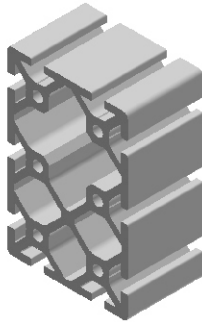
PE (m)  
 6 / 24 / 48 / 72

Technische Änderungen vorbehalten

**ALU-PROFILE**  
**PROFILES**  
**PROFILES**



**80x120 S**

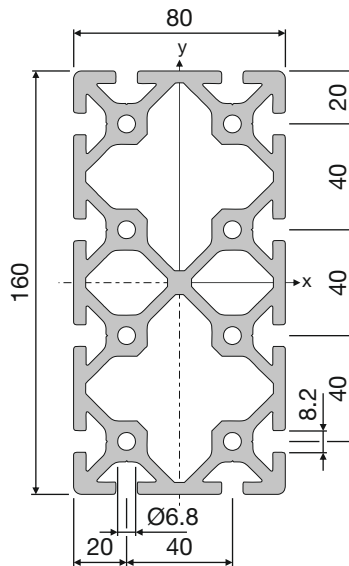
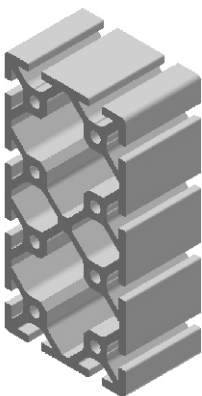


**05.01817.00**

M = 9,85 kg/m  
 $I_x = 537,80 \text{ cm}^4$   
 $W_x = 89,63 \text{ cm}^3$   
 $I_y = 255,13 \text{ cm}^4$   
 $W_y = 63,78 \text{ cm}^3$

PE (m)  
 6 / 12 / 24 / 36

**80x160 S**

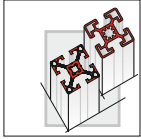


**05.01818.00**

M = 12,18 kg/m  
 $I_x = 1139,68 \text{ cm}^4$   
 $W_x = 142,46 \text{ cm}^3$   
 $I_y = 331,86 \text{ cm}^4$   
 $W_y = 82,97 \text{ cm}^3$

PE (m)  
 6 / 12 / 24 / 36

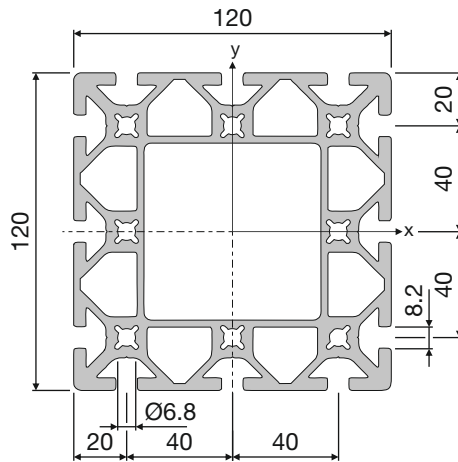
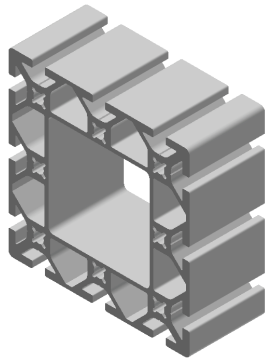
Technische Änderungen vorbehalten



**ALU-PROFILE**  
**PROFILES**  
**PROFILES**



**120x120 S**

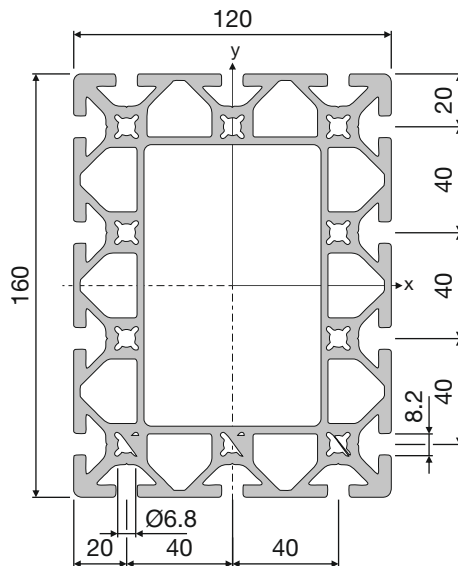
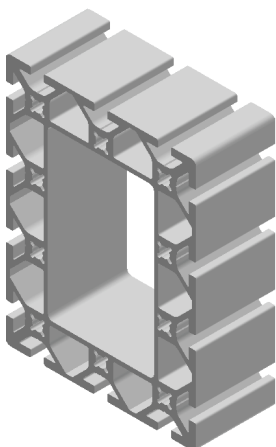


**05.01709.00**

M = 11,13 kg/m  
 $I_x = 691,97 \text{ cm}^4$   
 $W_x = 115,33 \text{ cm}^3$   
 $I_y = 691,97 \text{ cm}^4$   
 $W_y = 115,33 \text{ cm}^3$

PE (m)  
 6 / 12 / 24 / 36

**120x160 S**

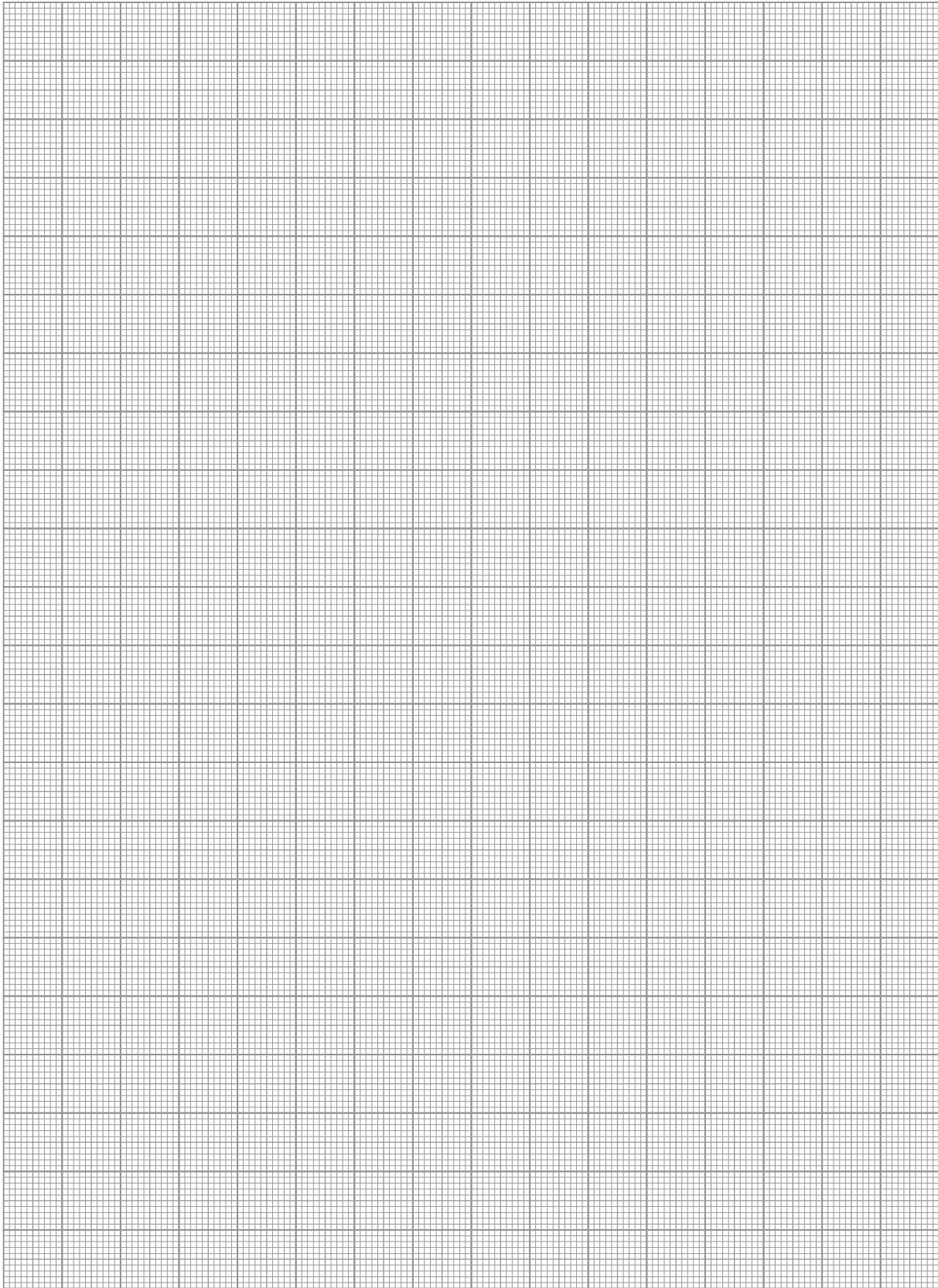


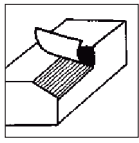
**05.01710.00**

M = 13,48 kg/m  
 $I_x = 1490,66 \text{ cm}^4$   
 $W_x = 186,33 \text{ cm}^3$   
 $I_y = 883,09 \text{ cm}^4$   
 $W_y = 147,18 \text{ cm}^3$

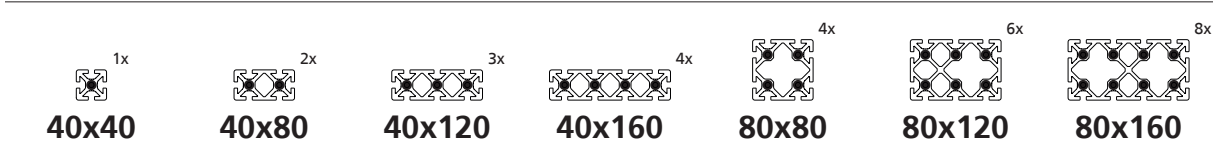
PE (m)  
 6 / 12 / 24 / 36

Technische Änderungen vorbehalten

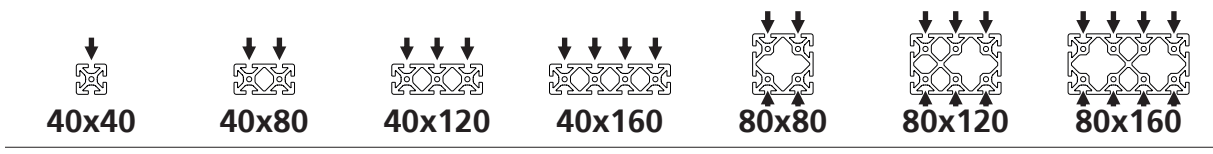




# PROFILBEARBEITUNG PROFILE FINISHING USINAGE DE PROFILES

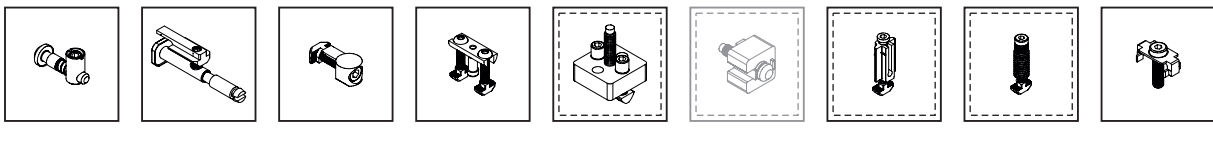


		<b>05.xxxxx.09</b>				
M8x40		<b>05.xxxxx.10</b>		M12x60		<b>05.xxxxx.12</b>
M8x40		<b>05.xxxxx.11</b>		M12x60		<b>05.xxxxx.13</b>



VSI 7		<b>05.xxxxx.15</b>	■ 3.17	UNI		<b>05.xxxxx.40</b>	■ 3.11
VSI 7		<b>05.xxxxx.16</b>		UNI		<b>05.xxxxx.41</b>	
BV14		<b>05.xxxxx.25</b>	■ 3.06	VSA 14		<b>05.xxxxx.45</b>	■ 3.16
BV14		<b>05.xxxxx.26</b>		VSA 14		<b>05.xxxxx.46</b>	
GV14		<b>05.xxxxx.30</b>	■ 3.02				
GV14		<b>05.xxxxx.31</b>					
AGV		<b>05.xxxxx.35</b>	■ 3.04				
AGV		<b>05.xxxxx.36</b>					

		<b>05.xxxxx.85</b>	■ 3.06	UNI		<b>05.xxxxx.43</b>	■ 3.11
BV14V		<b>05.xxxxx.86</b>		UNI		<b>05.xxxxx.44</b>	
AGV		<b>05.xxxxx.83</b>	■ 3.04				
AGV		<b>05.xxxxx.84</b>					

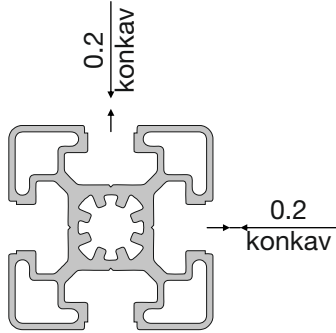


Technische Änderungen vorbehalten

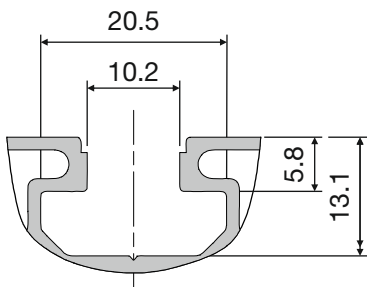
# ALU-PROFILE PROFILES PROFILES



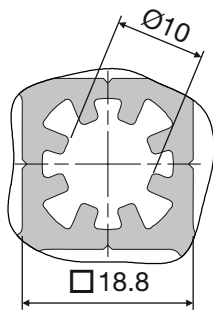
## Konkavität



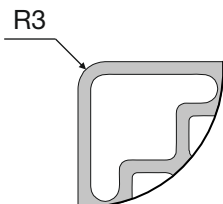
## Nut 10



## Kernloch

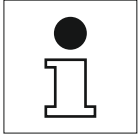


## Außenkante



45x45EL-1.4	45x45L-1.6	45x45L-1N	45x45L-2N90
■ 2.57	■ 2.57	■ 2.57	■ 2.57
45x45L-2N180	45x45L-3N	45x45L-R	45x60L
■ 2.57	■ 2.57	■ 2.58	■ 2.58
45x90EL-2.9	60x60L	45x180L	90x180L
■ 2.58	■ 2.59	■ 2.59	■ 2.59

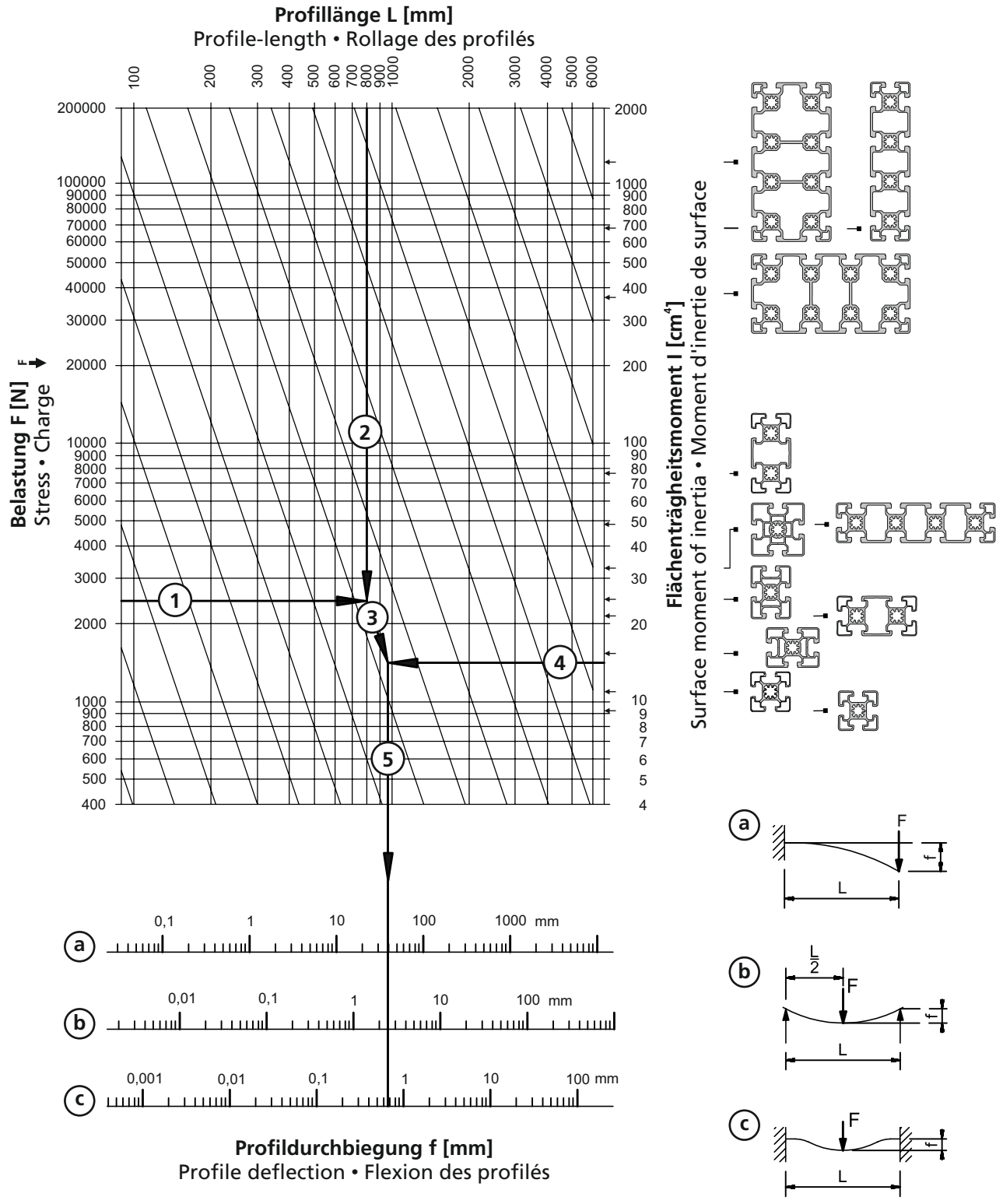
Technische Änderungen vorbehalten



**Durchbiegung der Profile**

Profile deflection

Flexion des profilés



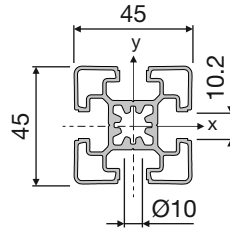
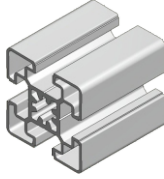
Technische Änderungen vorbehalten



# ALU-PROFILE PROFILES PROFILES



## 45x45 EL-1.4

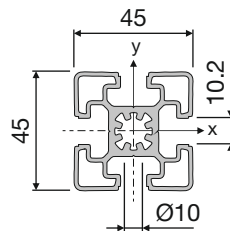
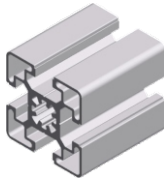


05.01517.00

M = 1,40 kg/m  
 $I_x = 9,28 \text{ cm}^4$   
 $W_x = 4,12 \text{ cm}^3$   
 $I_y = 9,28 \text{ cm}^4$   
 $W_y = 4,12 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

## 45x45 L-1.6

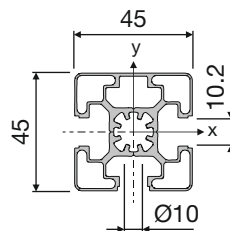
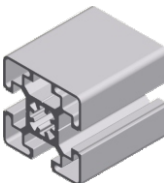


05.01041.00

M = 1,60 kg/m  
 $I_x = 10,17 \text{ cm}^4$   
 $W_x = 4,52 \text{ cm}^3$   
 $I_y = 10,17 \text{ cm}^4$   
 $W_y = 4,52 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

## 45x45 L-1N

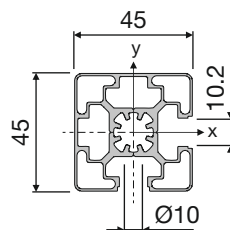
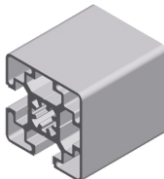


05.01900.00

M = 1,65 kg/m  
 $I_x = 10,95 \text{ cm}^4$   
 $W_x = 4,87 \text{ cm}^3$   
 $I_y = 10,19 \text{ cm}^4$   
 $W_y = 4,53 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

## 45x45 L-2N90

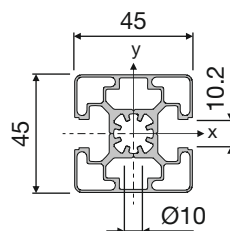
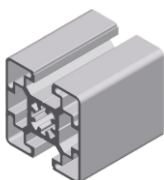


05.01901.00

M = 1,69 kg/m  
 $I_x = 10,97 \text{ cm}^4$   
 $W_x = 4,88 \text{ cm}^3$   
 $I_y = 10,97 \text{ cm}^4$   
 $W_y = 4,88 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

## 45x45 L-2N180

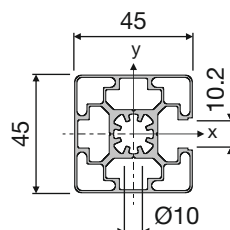
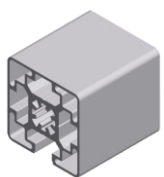


05.01902.00

M = 1,69 kg/m  
 $I_x = 11,73 \text{ cm}^4$   
 $W_x = 4,88 \text{ cm}^3$   
 $I_y = 10,21 \text{ cm}^4$   
 $W_y = 4,88 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

## 45x45 L-3N



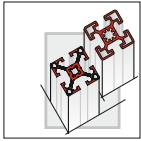
05.01903.00

M = 1,74 kg/m  
 $I_x = 11,75 \text{ cm}^4$   
 $W_x = 4,88 \text{ cm}^3$   
 $I_y = 10,97 \text{ cm}^4$   
 $W_y = 4,88 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

2

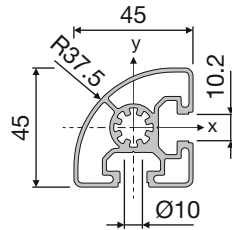
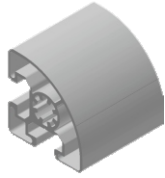
Technische Änderungen vorbehalten



**ALU-PROFILE**  
PROFILES  
PROFILES



**45x45 L-R**

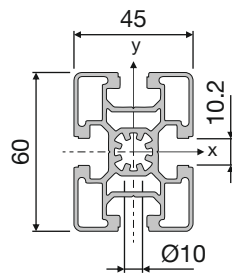
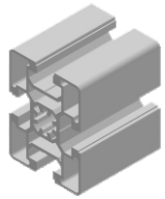


**05.01904.00**

M = 1,32 kg/m  
I<sub>x</sub> = 8,19 cm<sup>4</sup>  
W<sub>x</sub> = 3,64 cm<sup>3</sup>  
I<sub>y</sub> = 8,19 cm<sup>4</sup>  
W<sub>y</sub> = 3,64 cm<sup>3</sup>

PE (m)  
6 / 48 / 96 / 144

**45x60 L**

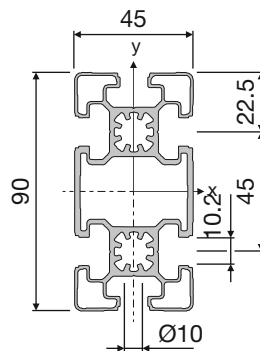
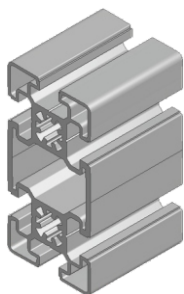


**05.01043.00**

M = 2,19 kg/m  
I<sub>x</sub> = 25,14 cm<sup>4</sup>  
W<sub>x</sub> = 8,38 cm<sup>3</sup>  
I<sub>y</sub> = 14,73 cm<sup>4</sup>  
W<sub>y</sub> = 6,55 cm<sup>3</sup>

PE (m)  
6 / 24 / 48 / 72

**45x90 L-2.9**



**05.01518.00**

M = 2,94 kg/m  
I<sub>x</sub> = 78,52 cm<sup>4</sup>  
W<sub>x</sub> = 17,45 cm<sup>3</sup>  
I<sub>y</sub> = 21,48 cm<sup>4</sup>  
W<sub>y</sub> = 9,55 cm<sup>3</sup>

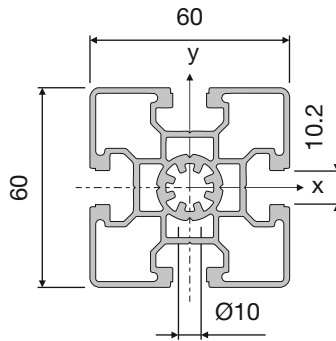
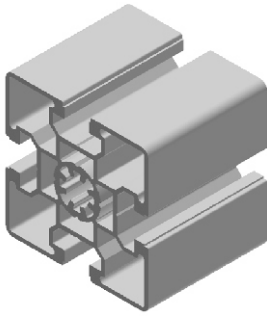
PE (m)  
6 / 24 / 48 / 72

Technische Änderungen vorbehalten

**ALU-PROFILE**  
**PROFILES**  
**PROFILES**



**60x60 L**

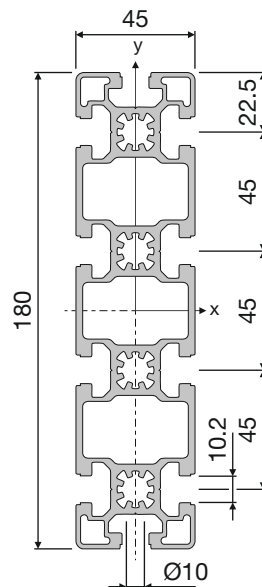
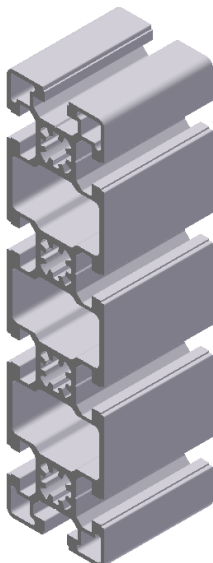


**05.01012.00**

M = 2,58 kg/m  
 $I_x = 30,01 \text{ cm}^4$   
 $W_x = 10,01 \text{ cm}^3$   
 $I_y = 30,01 \text{ cm}^4$   
 $W_y = 10,01 \text{ cm}^3$

PE (m)  
 6 / 18 / 36 / 72

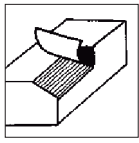
**45x180 L**



**05.01044.00**

M = 6,24 kg/m  
 $I_x = 686,62 \text{ cm}^4$   
 $W_x = 76,14 \text{ cm}^3$   
 $I_y = 49,57 \text{ cm}^4$   
 $W_y = 22,01 \text{ cm}^3$

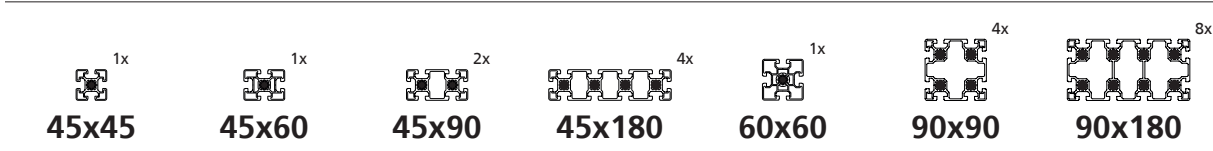
PE (m)  
 6 / 12 / 24 / 36



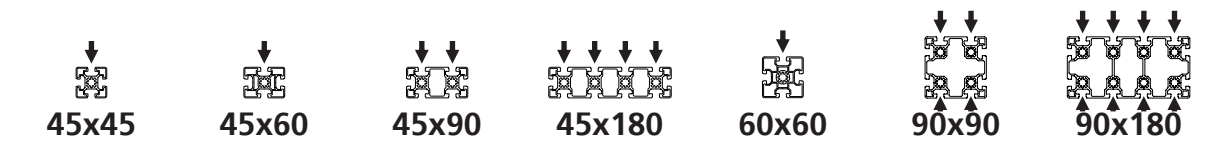
# PROFILBEARBEITUNG

## PROFILE FINISHING

### USINAGE DE PROFILES



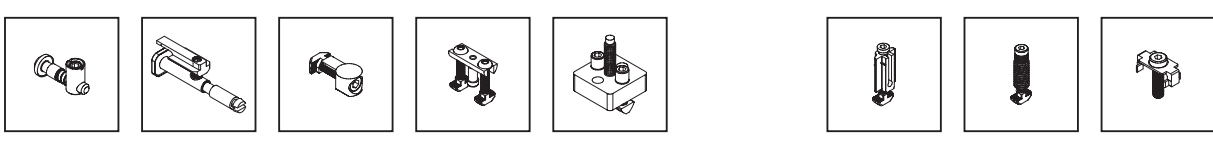
		05.xxxxx.09			
M12x60		05.xxxxx.10	M16x115		05.xxxxx.12
M12x60		05.xxxxx.11	M16x115		05.xxxxx.13



VSI 9.5		05.xxxxx.15	■ 3.17	AGV		05.xxxxx.35	■ 3.04
VSI 9.5		05.xxxxx.16		AGV		05.xxxxx.36	
BV17		05.xxxxx.25	■ 3.06	UNI		05.xxxxx.40	■ 3.11
BV17		05.xxxxx.26		UNI		05.xxxxx.41	
GV16		05.xxxxx.30	■ 3.02	VSA 20		05.xxxxx.45	■ 3.16
GV16		05.xxxxx.31		VSA 20		05.xxxxx.46	

BV17V		05.xxxxx.85	■ 3.06	UNI		05.xxxxx.43	■ 3.11
BV17V		05.xxxxx.86		UNI		05.xxxxx.44	

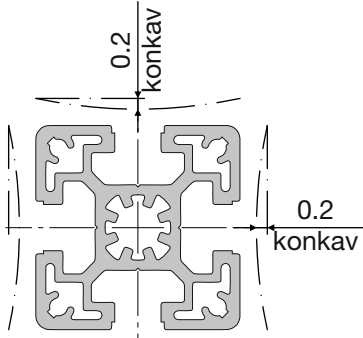
Technische Änderungen vorbehalten



# ALU-PROFILE PROFILES PROFILES



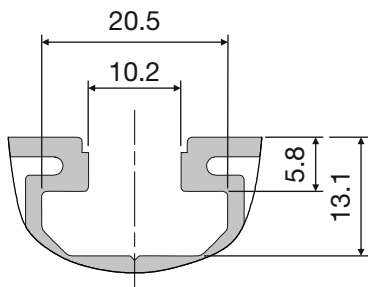
## Konkavität



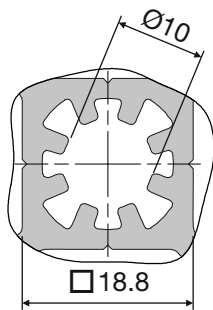
45x45N-1.9	45x60N-2.85	45x90N-3.4	90x90N
■ 2.65	■ 2.65	■ 2.65	■ 2.65

2

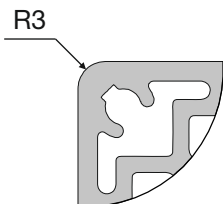
## Nut



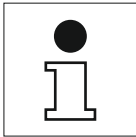
## Kernloch



## Außenkante



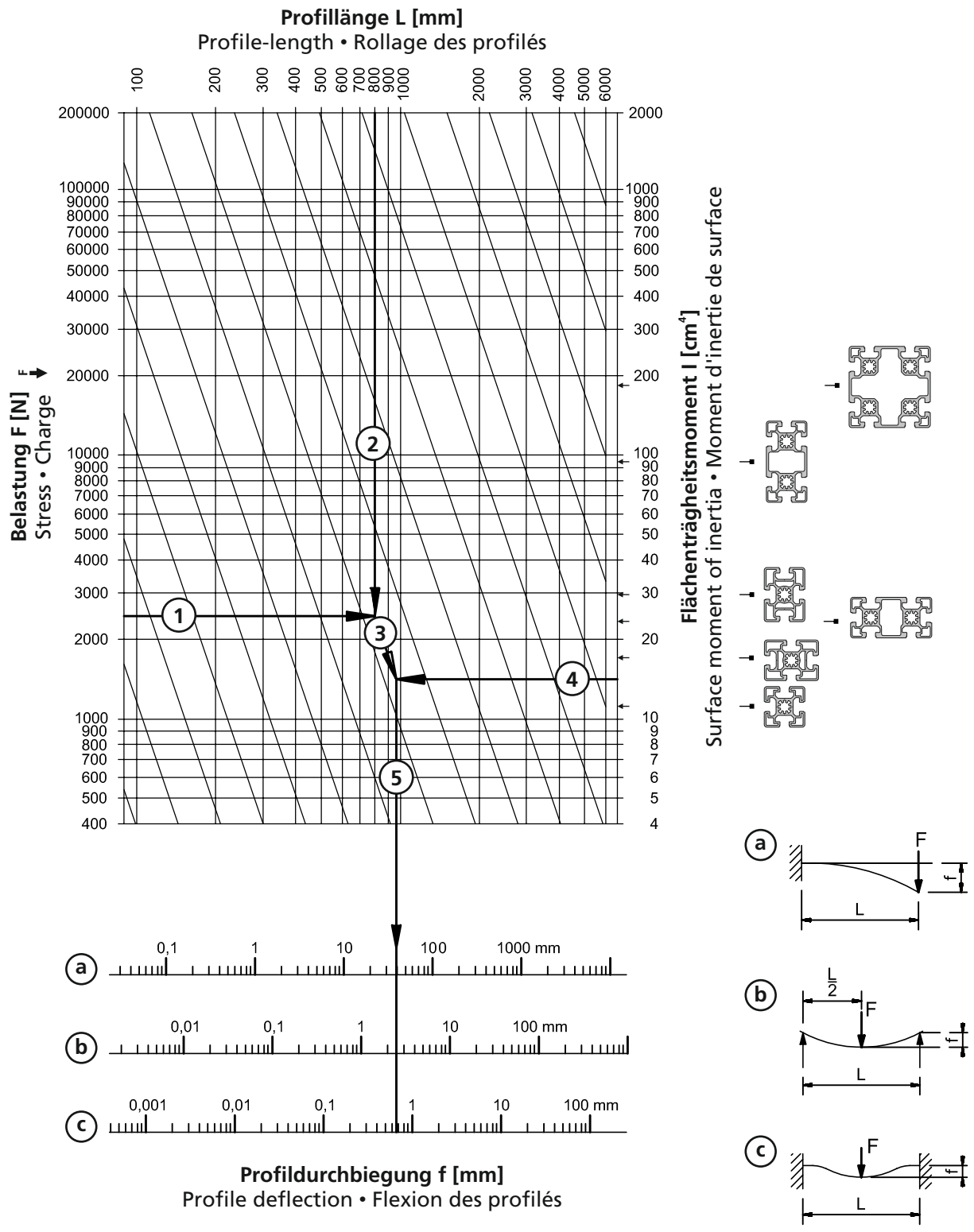
Technische Änderungen vorbehalten



**Durchbiegung der Profile**

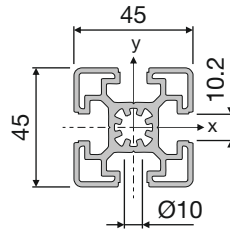
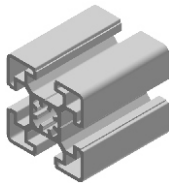
Profile deflection

Flexion des profilés



Technische Änderungen vorbehalten

**45x45 N-1.9**

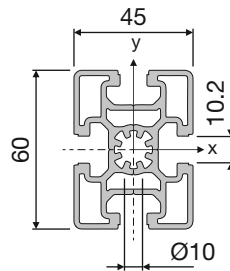
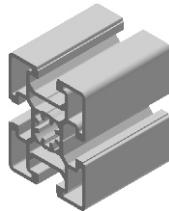


**05.01498.00**

M = 1,88 kg/m  
I<sub>x</sub> = 12,95 cm<sup>4</sup>  
W<sub>x</sub> = 5,76 cm<sup>3</sup>  
I<sub>y</sub> = 12,95 cm<sup>4</sup>  
W<sub>y</sub> = 5,76 cm<sup>3</sup>

PE (m)  
6 / 48 / 96 / 144

**45x60 N-2.85**

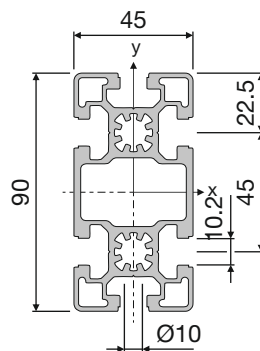
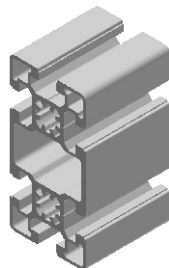


**05.01499.00**

M = 2,85 kg/m  
I<sub>x</sub> = 29,72 cm<sup>4</sup>  
W<sub>x</sub> = 9,91 cm<sup>3</sup>  
I<sub>y</sub> = 17,63 cm<sup>4</sup>  
W<sub>y</sub> = 7,84 cm<sup>3</sup>

PE (m)  
6 / 24 / 48 / 72

**45x90 N-3.4**

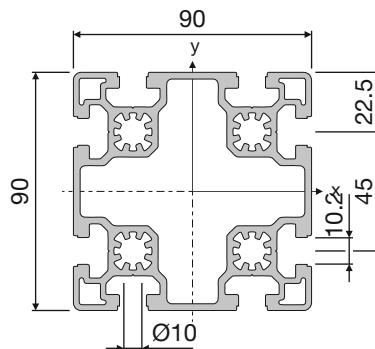
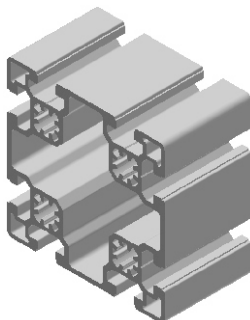


**05.01013.00**

M = 3,40 kg/m  
I<sub>x</sub> = 94,84 cm<sup>4</sup>  
W<sub>x</sub> = 21,08 cm<sup>3</sup>  
I<sub>y</sub> = 24,90 cm<sup>4</sup>  
W<sub>y</sub> = 11,07 cm<sup>3</sup>

PE (m)  
6 / 24 / 48 / 72

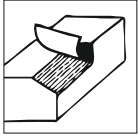
**90x90 N**



**05.01014.00**

M = 5,68 kg/m  
I<sub>x</sub> = 190,13 cm<sup>4</sup>  
W<sub>x</sub> = 38,28 cm<sup>3</sup>  
I<sub>y</sub> = 190,13 cm<sup>4</sup>  
W<sub>y</sub> = 38,28 cm<sup>3</sup>

PE (m)  
6 / 24 / 48 / 72





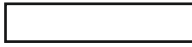



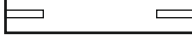
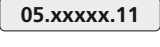


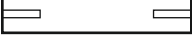
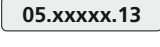







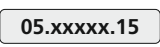

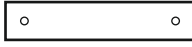

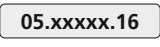
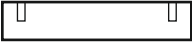



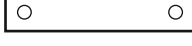

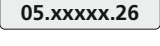
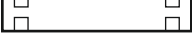
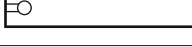
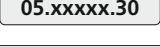
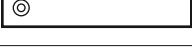
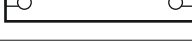

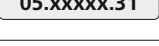
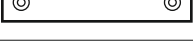
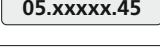
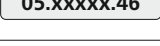
# PROFILBEARBEITUNG

## PROFILE FINISHING

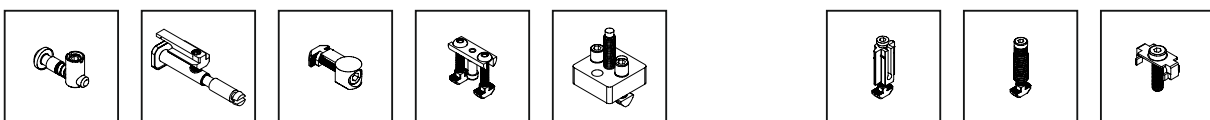
### USINAGE DE PROFILS



 1x <b>45x45</b>	 1x <b>45x60</b>	 2x <b>45x90</b>	 4x <b>90x90</b>
	 05.xxxxx.09		
M12x60 	 05.xxxxx.10		
M12x60  M12x60	 05.xxxxx.11		
M16x115 	 05.xxxxx.12		
M16x115  M16x115	 05.xxxxx.13		

 ↓ <b>45x45</b>	 ↓ <b>45x60</b>	 ↓ ↓ <b>45x90</b>	 ↓ ↓ <b>90x90</b>
VSI 9.5 	 05.xxxxx.15 ■ 3.17		AGV 
VSI 9.5 	VSI 9.5 	 05.xxxxx.16	AGV  AGV
BV17 	 05.xxxxx.25 ■ 3.06		UNI 
BV17 	BV17 	 05.xxxxx.26	UNI  UNI
GV16 	 05.xxxxx.30 ■ 3.02		VSA 20 
GV16 	GV16 	 05.xxxxx.31	VSA 20  VSA 20
			 05.xxxxx.45 ■ 3.16
			 05.xxxxx.46

Technische Änderungen vorbehalten

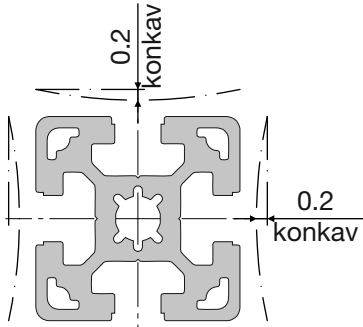




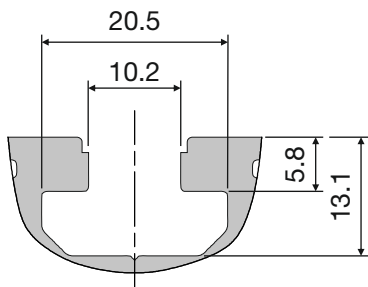
# ALU-PROFILE PROFILES PROFILES



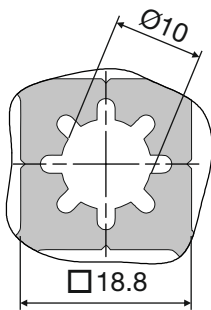
## Konkavität



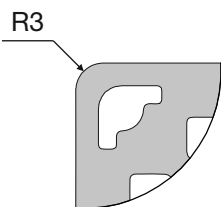
## Nut



## Kernloch



## Außenkante



45x45MS-2.1

45x45S

45x60S

45x90S



■ 2.69

■ 2.69

■ 2.69

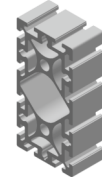
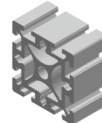
■ 2.69

60x60S

60x90S

90x90S

90x180S



■ 2.70

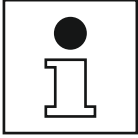
■ 2.70

■ 2.70

■ 2.71

2

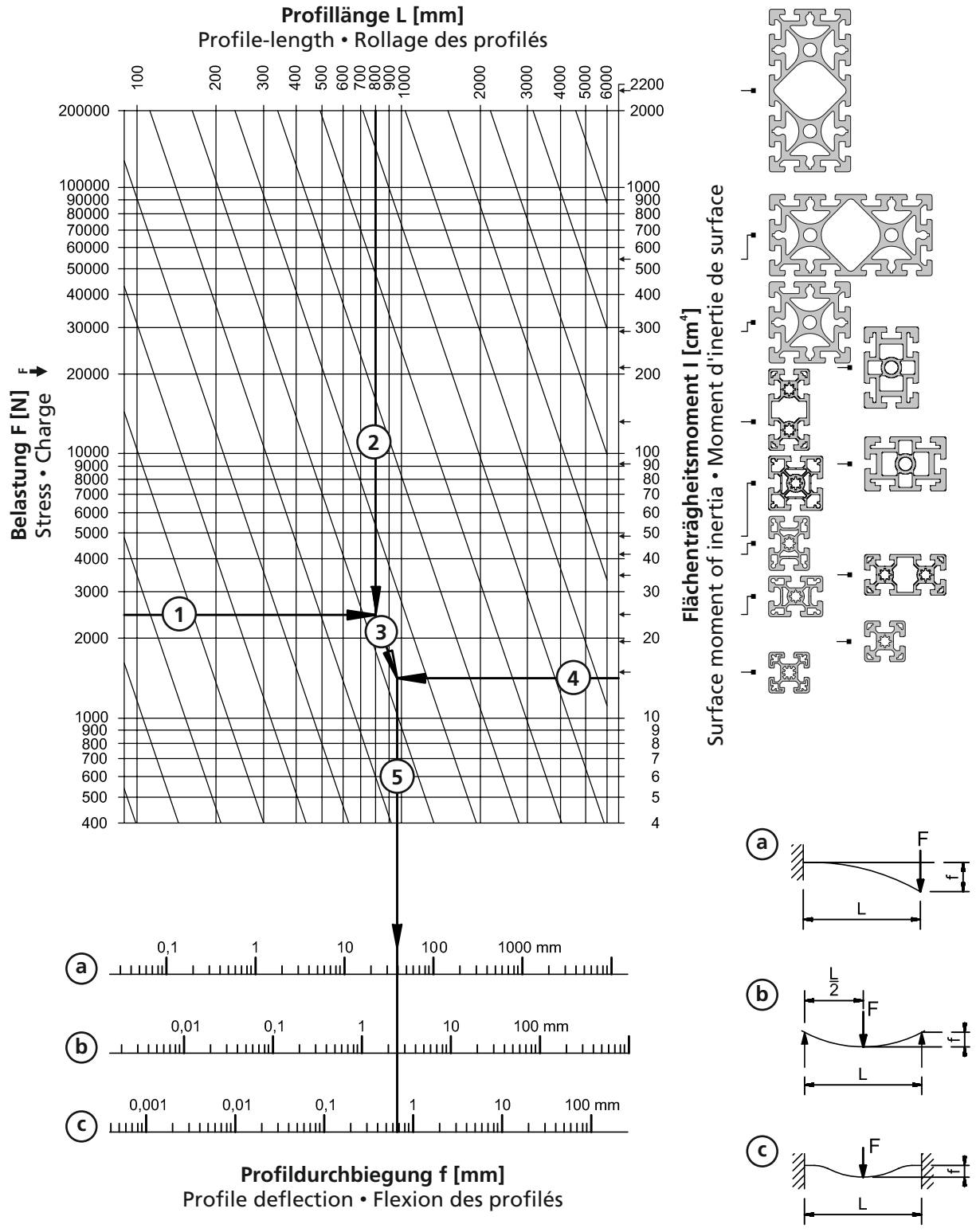
Technische Änderungen vorbehalten



**Durchbiegung der Profile**

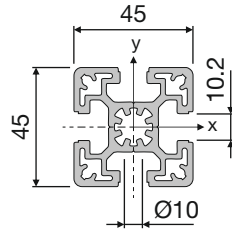
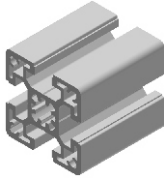
Profile deflection

Flexion des profilés



Technische Änderungen vorbehalten

**45x45 MS-2.1**

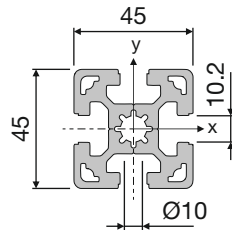
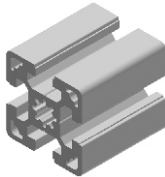


**05.01009.00**

M = 2,10 kg/m  
 $I_x = 15,56 \text{ cm}^4$   
 $W_x = 6,92 \text{ cm}^3$   
 $I_y = 15,56 \text{ cm}^4$   
 $W_y = 6,92 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

**45x45 S**

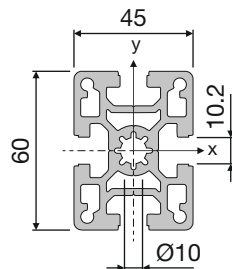
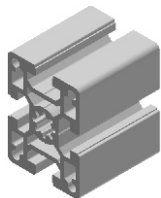


**05.01010.00**

M = 2,62 kg/m  
 $I_x = 18,95 \text{ cm}^4$   
 $W_x = 8,42 \text{ cm}^3$   
 $I_y = 18,95 \text{ cm}^4$   
 $W_y = 8,42 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

**45x60 S**

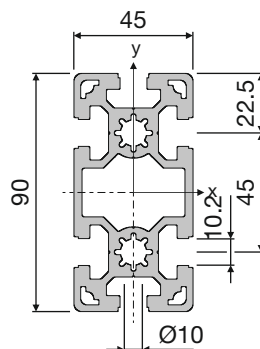
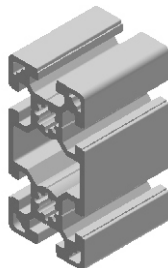


**05.01011.00**

M = 3,30 kg/m  
 $I_x = 41,06 \text{ cm}^4$   
 $W_x = 13,69 \text{ cm}^3$   
 $I_y = 23,68 \text{ cm}^4$   
 $W_y = 10,52 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72

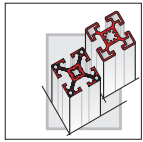
**45x90 S**



**05.01015.00**

M = 4,40 kg/m  
 $I_x = 134,96 \text{ cm}^4$   
 $W_x = 29,99 \text{ cm}^3$   
 $I_y = 33,27 \text{ cm}^4$   
 $W_y = 14,79 \text{ cm}^3$

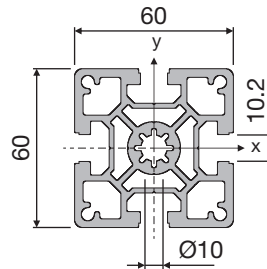
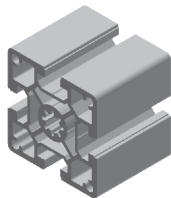
PE (m)  
 6 / 24 / 48 / 72



# ALU-PROFILE PROFILES PROFILES



## 60x60 S

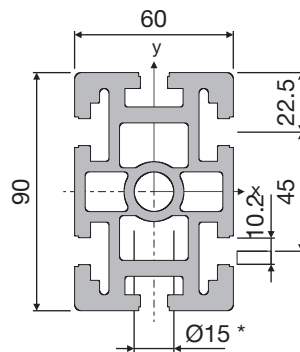
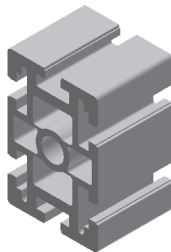


### 05.01017.00

M = 3,82 kg/m  
 $I_x = 48,36 \text{ cm}^4$   
 $W_x = 16,12 \text{ cm}^3$   
 $I_y = 48,36 \text{ cm}^4$   
 $W_y = 16,12 \text{ cm}^3$

PE (m)  
 6 / 18 / 36 / 54

## 60x90 S



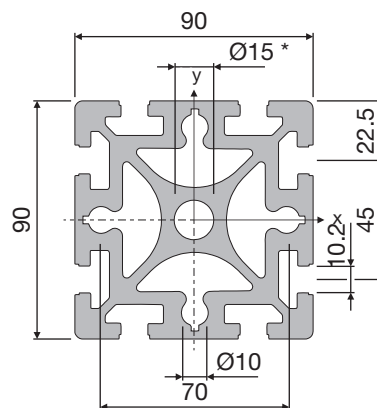
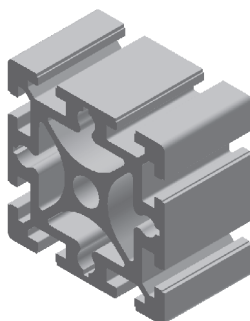
### 05.01016.00

M = 6,87 kg/m  
 $I_x = 215,97 \text{ cm}^4$   
 $W_x = 47,99 \text{ cm}^3$   
 $I_y = 91,41 \text{ cm}^4$   
 $W_y = 30,47 \text{ cm}^3$

PE (m)  
 6 / 18 / 36 / 54

\*  
**Gewinde M16 im Kernloch Ø15 nur mit Gewindeformwerkzeug fertigen!**  
 Only manufacture the M16 thread in the core hole with a diameter of 15 using a thread forming tool!  
 Produire le filetage M16 avec trou de noyau de Ø15 uniquement avec un outil de taraudage !

## 90x90 S



### 05.01018.00

M = 10,43 kg/m  
 $I_x = 298,12 \text{ cm}^4$   
 $W_x = 66,25 \text{ cm}^3$   
 $I_y = 298,12 \text{ cm}^4$   
 $W_y = 66,25 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72

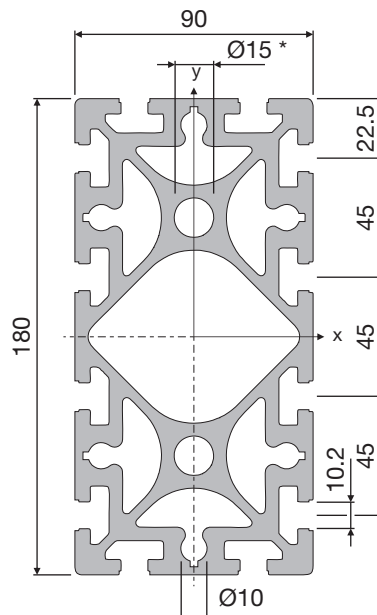
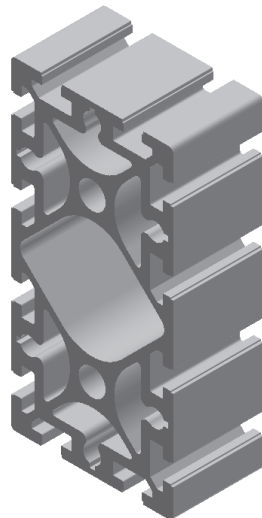
\*  
**Gewinde M16 im Kernloch Ø15 nur mit Gewindeformwerkzeug fertigen!**  
 Only manufacture the M16 thread in the core hole with a diameter of 15 using a thread forming tool!  
 Produire le filetage M16 avec trou de noyau de Ø15 uniquement avec un outil de taraudage !

Technische Änderungen vorbehalten

**ALU-PROFILE**  
**PROFILES**  
**PROFILES**



**90x180 S**



**05.01019.00**

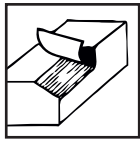
M = 17,57 kg/m  
 $I_x = 2180,42 \text{ cm}^4$   
 $W_x = 242,27 \text{ cm}^3$   
 $I_y = 557,95 \text{ cm}^4$   
 $W_y = 123,99 \text{ cm}^3$

PE (m)  
 6 / 12 / 24 / 36

\*  
**Gewinde M16 im Kernloch Ø15 nur mit Gewindeformwerkzeug fertigen!**  
 Only manufacture the M16 thread in the core hole with a diameter of 15 using a thread forming tool!  
 Produire le filetage M16 avec trou de noyau de Ø15 uniquement avec un outil de taraudage !

2

Technische Änderungen vorbehalten
































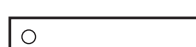
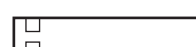
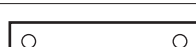
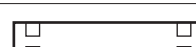
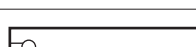
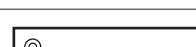
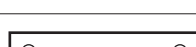
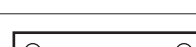
# PROFILBEARBEITUNG

## PROFILE FINISHING

### USINAGE DE PROFILES

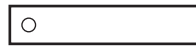
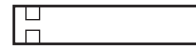




 1x	 1x	 2x	 1x	 1x	 1x	 2x
<b>45x45</b>	<b>45x60</b>	<b>45x90</b>	<b>60x60</b>	<b>60x90</b>	<b>90x90</b>	<b>90x180</b>
		 05.xxxxx.09				
M12x60			 05.xxxxx.10			M16x115
M12x60	 M12x60		 M16x115			 M16x115 05.xxxxx.11
		 05.xxxxx.12				
		 M16x115 05.xxxxx.13				

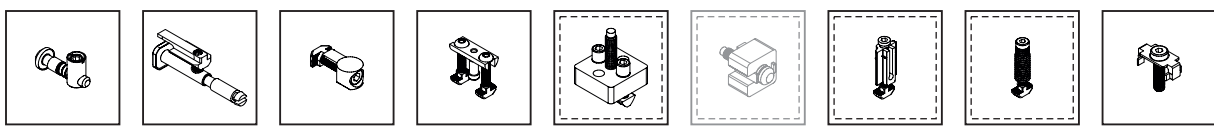
 ↓	 ↓	 ↓ ↓	 ↓	 ↓ ↓	 ↓ ↓	 ↓ ↓ ↓ ↓
<b>45x45</b>	<b>45x60</b>	<b>45x90</b>	<b>60x60</b>	<b>60x90</b>	<b>90x90</b>	<b>90x180</b>
VSI 9.5	 05.xxxxx.15 ■ 3.17		AGV	 05.xxxxx.35 ■ 3.04		
VSI 9.5	 VSI 9.5 05.xxxxx.16		AGV	 AGV 05.xxxxx.36		
BV17	 05.xxxxx.25 ■ 3.06		UNI	 05.xxxxx.40 ■ 3.11		
BV17	 BV17 05.xxxxx.26		UNI	 UNI 05.xxxxx.41		
GV16	 05.xxxxx.30 ■ 3.02		VSA 20	 05.xxxxx.45 ■ 3.16		
GV16	 GV16 05.xxxxx.31		VSA 20	 VSA 20 05.xxxxx.46		

### ↔ ↔

## 45x90

BV17V		05.xxxxx.85 ■ 3.06	UNI		05.xxxxx.43 ■ 3.11
BV17V	 BV17V	05.xxxxx.86	UNI	 UNI	05.xxxxx.44

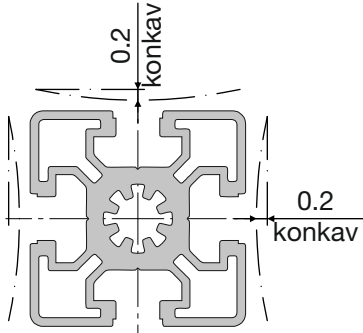
Technische Änderungen vorbehalten



**ALU-PROFILE**  
**PROFILES**  
**PROFILES**

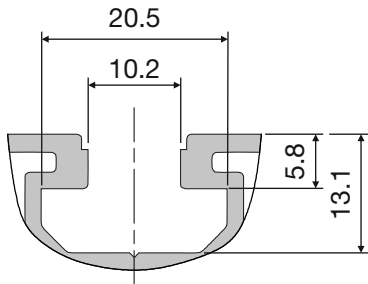


**Konkavität**

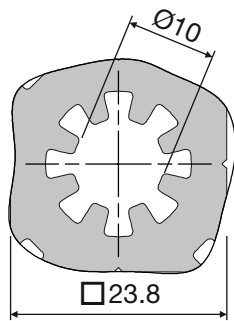


50x50L	50x100L	100x100L
■ 2.75	■ 2.75	■ 2.75

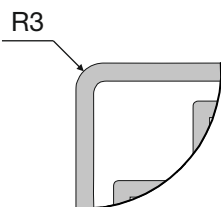
**Nut**



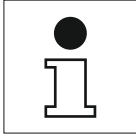
**Kernloch**



**Außenkante**



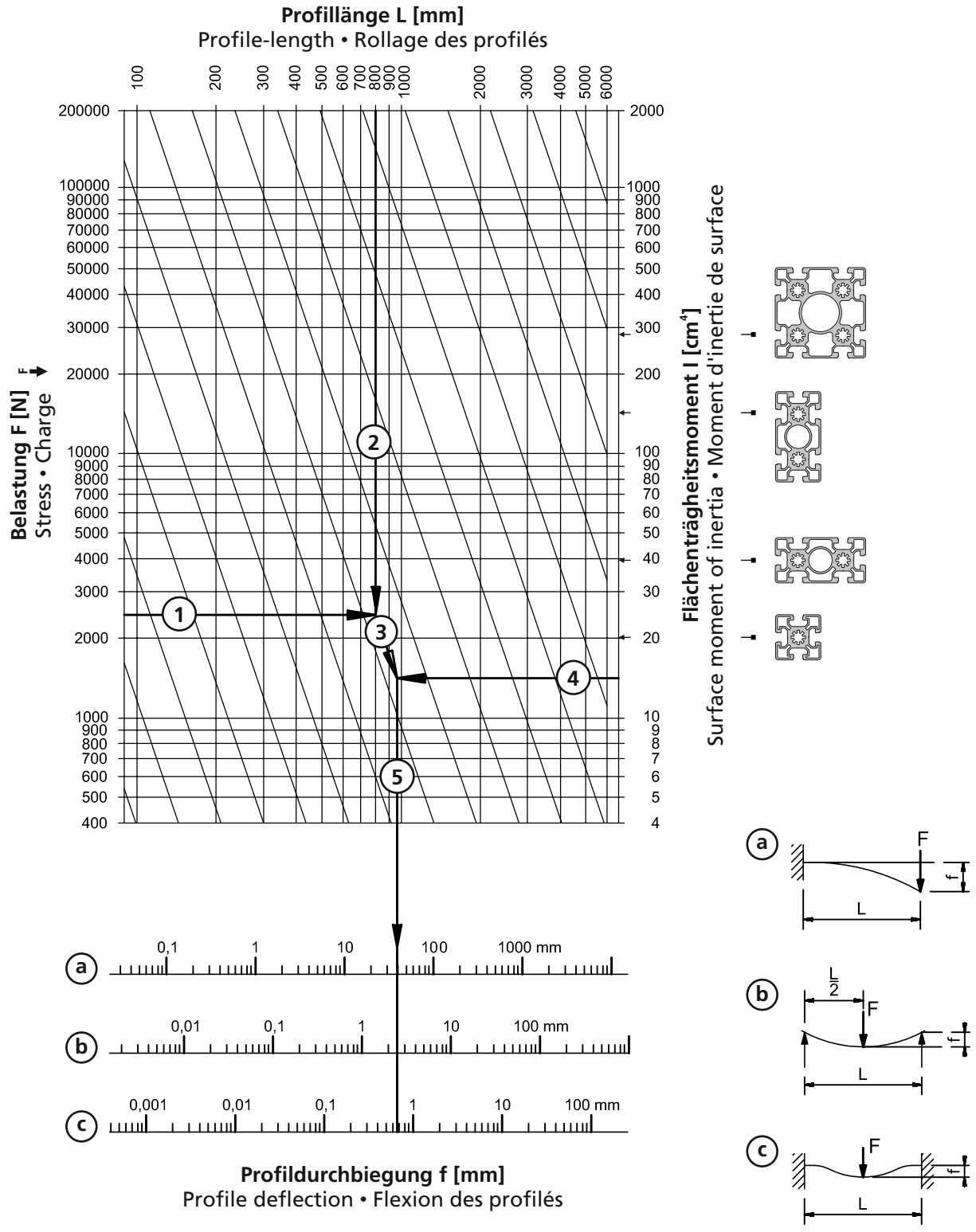
Technische Änderungen vorbehalten



**Durchbiegung der Profile**

Profile deflection

Flexion des profilés



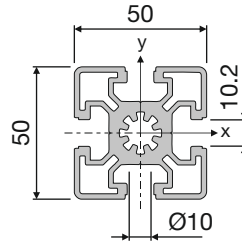
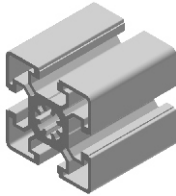
Technische Änderungen vorbehalten



**ALU-PROFILE**  
**PROFILES**  
**PROFILES**



**50x50 L**



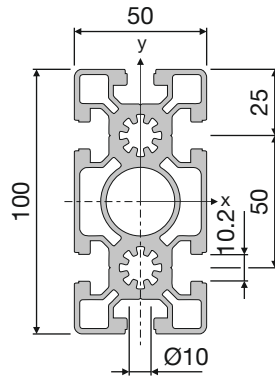
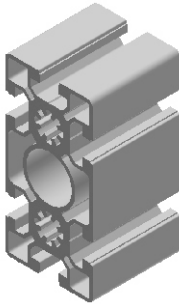
**05.01700.00**

M = 2,52 kg/m  
 $I_x = 19,17 \text{ cm}^4$   
 $W_x = 7,67 \text{ cm}^3$   
 $I_y = 19,17 \text{ cm}^4$   
 $W_y = 7,67 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144



**50x100 L**

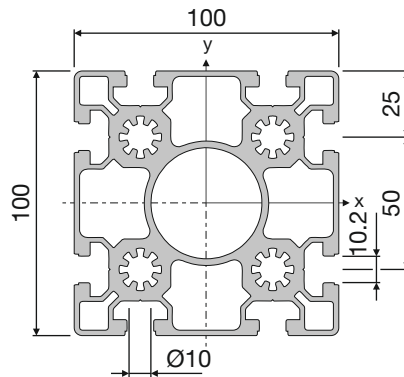
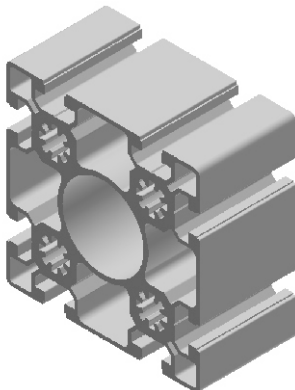


**05.01702.00**

M = 5,00 kg/m  
 $I_x = 166,60 \text{ cm}^4$   
 $W_x = 33,32 \text{ cm}^3$   
 $I_y = 39,75 \text{ cm}^4$   
 $W_y = 15,90 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72

**100x100 L**

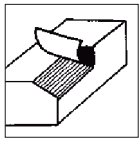


**05.01703.00**

M = 8,28 kg/m  
 $I_x = 293,00 \text{ cm}^4$   
 $W_x = 58,60 \text{ cm}^3$   
 $I_y = 293,00 \text{ cm}^4$   
 $W_y = 58,60 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72

Technische Änderungen vorbehalten



# PROFILBEARBEITUNG

## PROFILE FINISHING

### USINAGE DE PROFILES



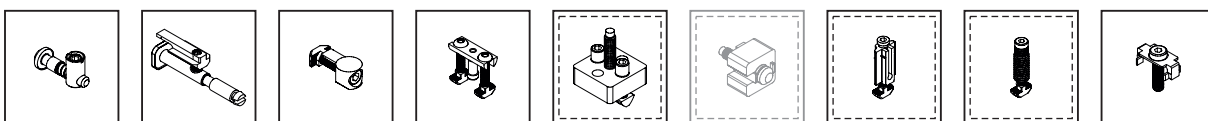
	1x	2x	4x	
	<b>50x50</b>	<b>50x100</b>	<b>100x100</b>	
				<b>05.xxxxx.09</b>
M12x60				<b>05.xxxxx.10</b>
M12x60				<b>05.xxxxx.11</b>
M16x115				<b>05.xxxxx.12</b>
M16x115				<b>05.xxxxx.13</b>

	50x50	50x100	100x100	
VSI 9.5				<b>05.xxxxx.15</b> ■ 3.17
VSI 9.5				<b>05.xxxxx.16</b>
BV17				<b>05.xxxxx.25</b> ■ 3.06
BV17				<b>05.xxxxx.26</b>
GV16				<b>05.xxxxx.30</b> ■ 3.02
GV16				<b>05.xxxxx.31</b>
AGV				<b>05.xxxxx.35</b> ■ 3.04
AGV				<b>05.xxxxx.36</b>
UNI				<b>05.xxxxx.40</b> ■ 3.11
UNI				<b>05.xxxxx.41</b>
VSA 20				<b>05.xxxxx.45</b> ■ 3.16
VSA 20				<b>05.xxxxx.46</b>

### 50x100

BV17V		<b>05.xxxxx.85</b> ■ 3.06	UNI		<b>05.xxxxx.43</b> ■ 3.11
BV17V		<b>05.xxxxx.86</b>	UNI		<b>05.xxxxx.44</b>

Technische Änderungen vorbehalten



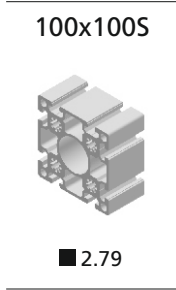
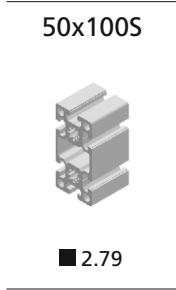
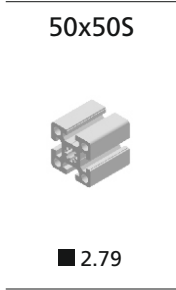
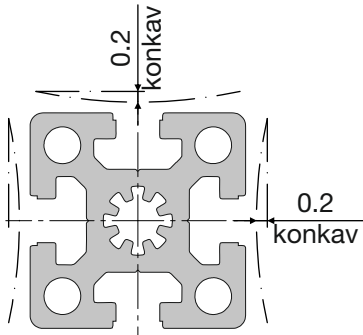
# ALU-PROFILE

## PROFILES

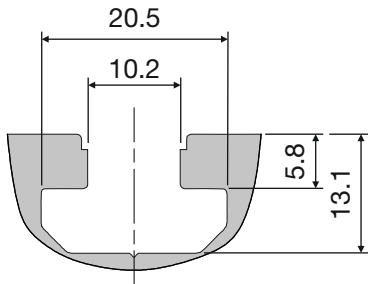
## PROFILES



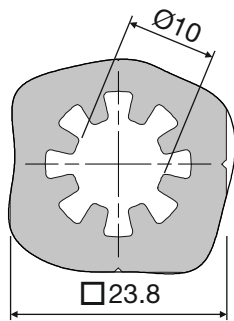
### Konkavität



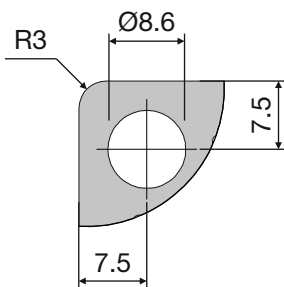
### Nut

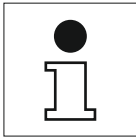


### Kernloch



### Außenkante

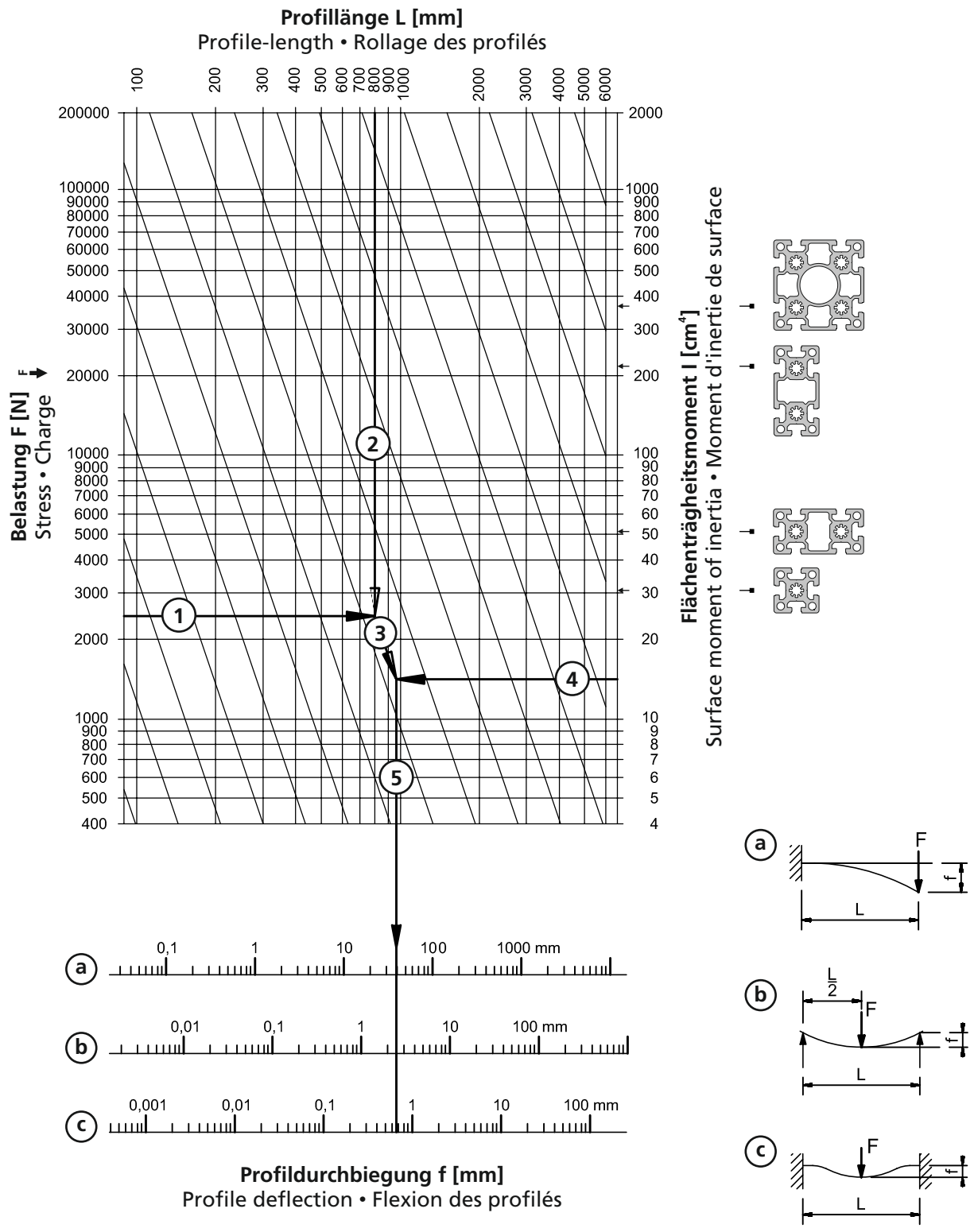




**Durchbiegung der Profile**

Profile deflection

Flexion des profilés

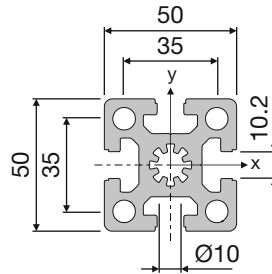
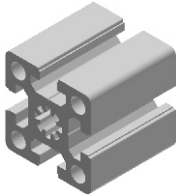


Technische Änderungen vorbehalten

**ALU-PROFILE**  
**PROFILES**  
**PROFILES**



**50x50 S**



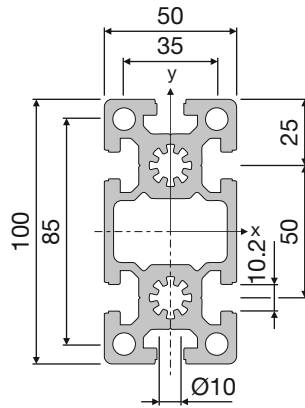
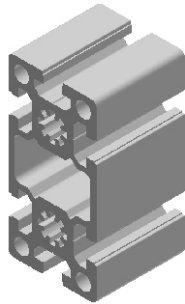
**05.01705.00**

M = 3,54 kg/m  
 $I_x = 29,62 \text{ cm}^4$   
 $W_x = 11,85 \text{ cm}^3$   
 $I_y = 29,62 \text{ cm}^4$   
 $W_y = 11,85 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144



**50x100 S**

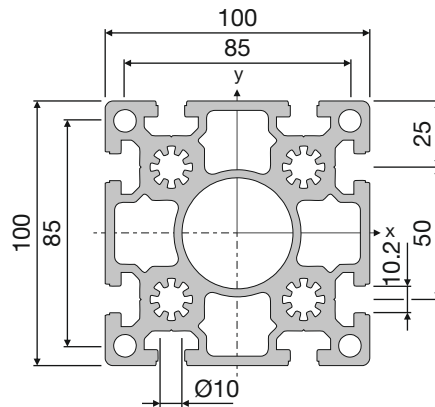
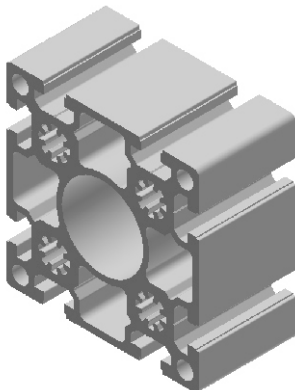


**05.01706.00**

M = 5,92 kg/m  
 $I_x = 219,85 \text{ cm}^4$   
 $W_x = 43,97 \text{ cm}^3$   
 $I_y = 52,23 \text{ cm}^4$   
 $W_y = 20,89 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72

**100x100 S**

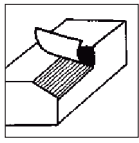


**05.01707.00**

M = 10,45 kg/m  
 $I_x = 383,00 \text{ cm}^4$   
 $W_x = 76,60 \text{ cm}^3$   
 $I_y = 383,00 \text{ cm}^4$   
 $W_y = 76,60 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72

Technische Änderungen vorbehalten



**PROFILBEARBEITUNG**  
**PROFILE FINISHING**  
**USINAGE DE PROFILES**



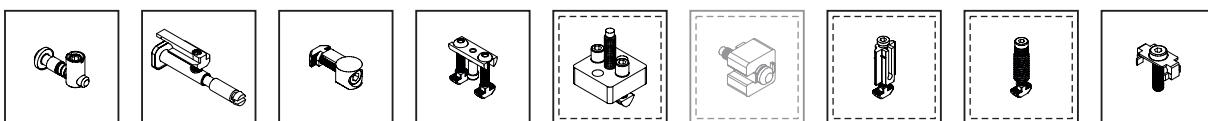
	1x 	2x 	4x 	
				05.xxxxx.09
M12x60				05.xxxxx.10
M12x60				05.xxxxx.11
M16x115				05.xxxxx.12
M16x115				05.xxxxx.13

VSI 9.5				05.xxxxx.15 ■ 3.17
VSI 9.5				05.xxxxx.16
BV17				05.xxxxx.25 ■ 3.06
BV17				05.xxxxx.26
GV16				05.xxxxx.30 ■ 3.02
GV16				05.xxxxx.31
AGV				05.xxxxx.35 ■ 3.04
AGV				05.xxxxx.36
UNI				05.xxxxx.40 ■ 3.11
UNI				05.xxxxx.41
VSA 20				05.xxxxx.45 ■ 3.16
VSA 20				05.xxxxx.46

**50x100**

BV17V		05.xxxxx.85 ■ 3.06	UNI		05.xxxxx.43 ■ 3.11
BV17V		05.xxxxx.86	UNI		05.xxxxx.44

Technische Änderungen vorbehalten



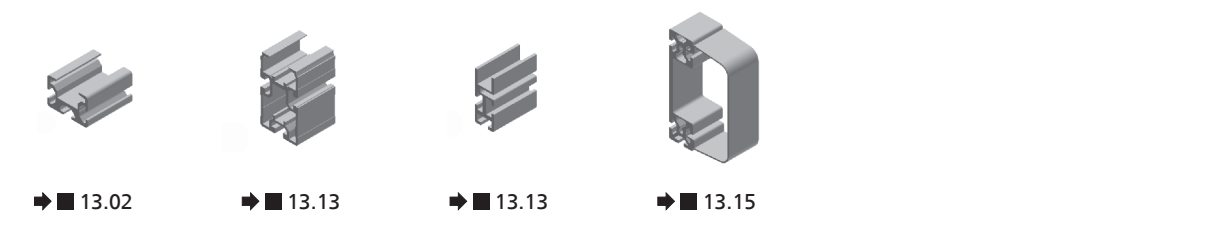
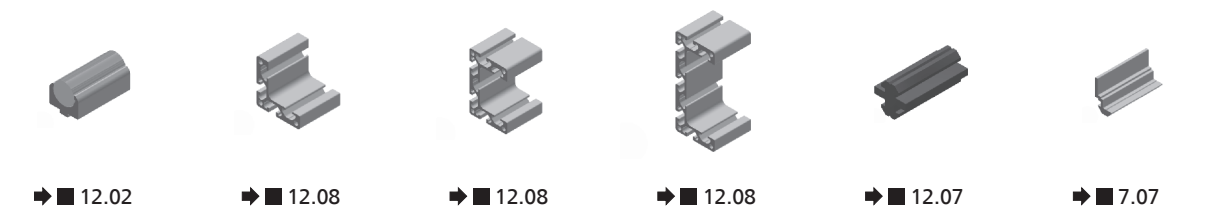
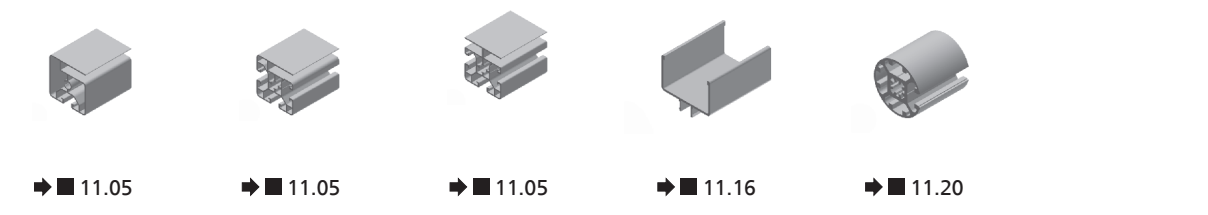
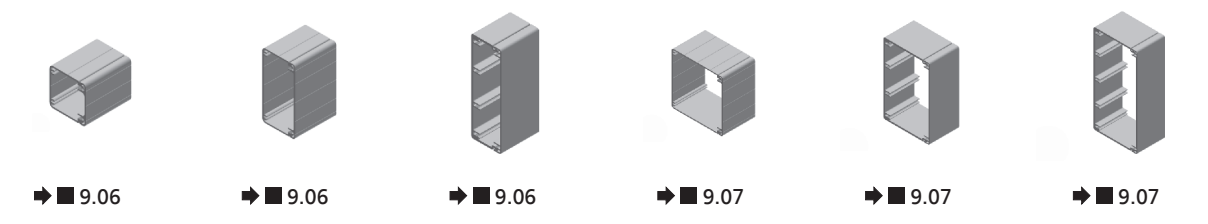
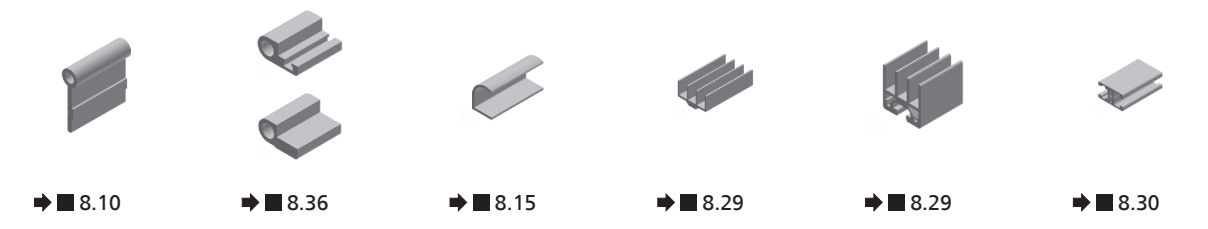
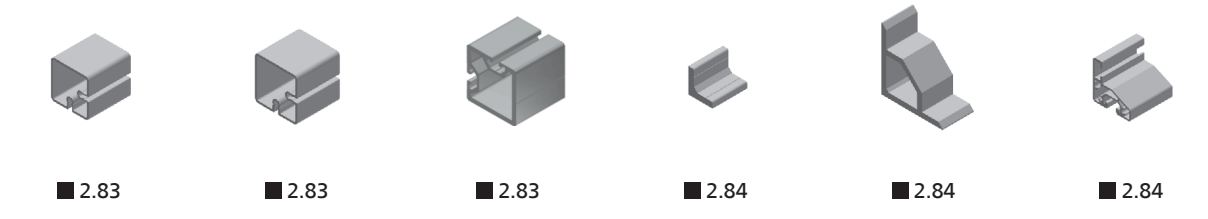
# ZUSATZ-PROFILE

## ADDITIONAL PROFILES

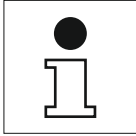
### PROFILES COMPLEMENTAIRES



2



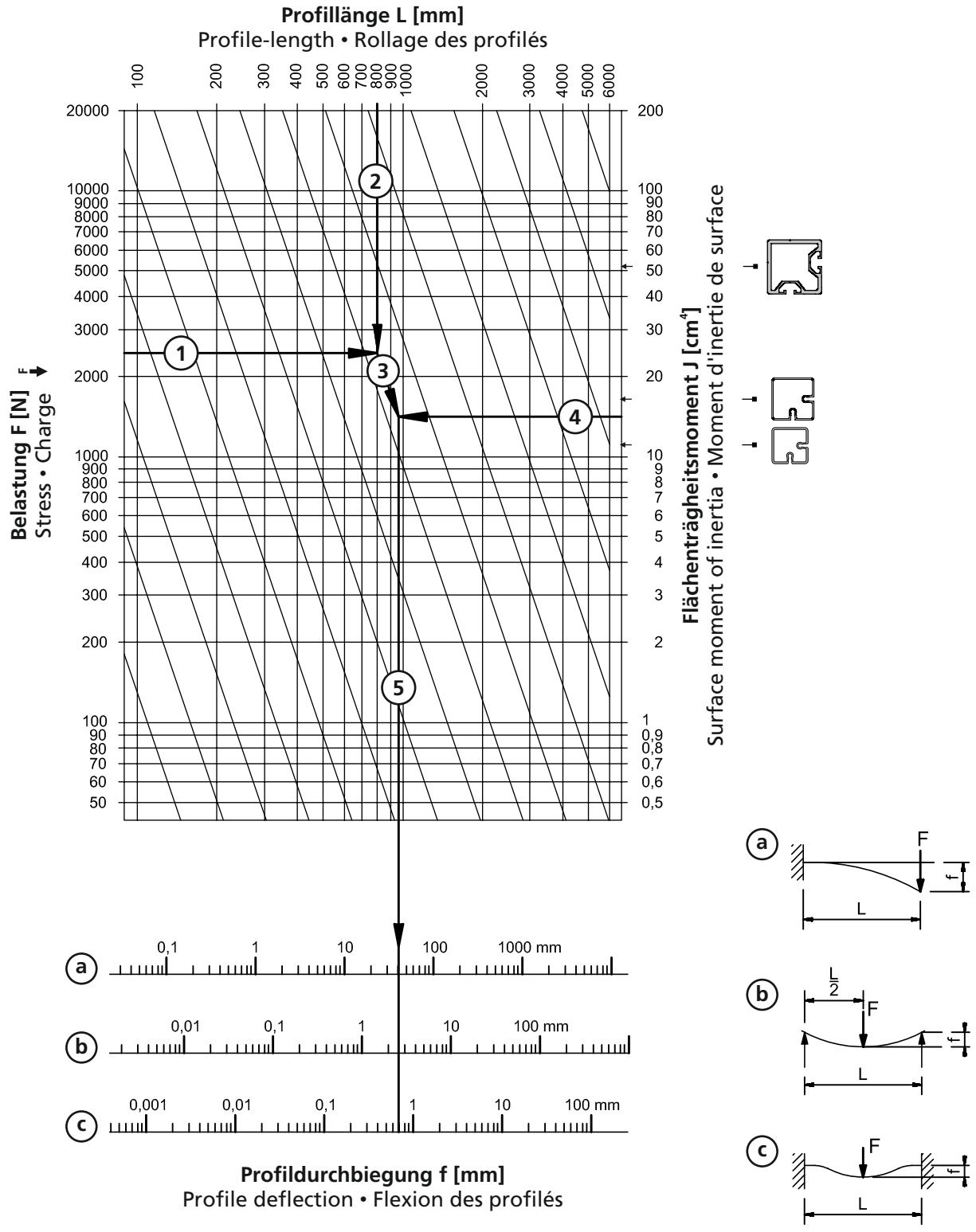
Technische Änderungen vorbehalten



**Durchbiegung der Profile**

Profile deflection

Flexion des profilés



Technische Änderungen vorbehalten



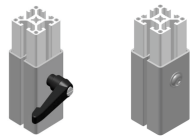
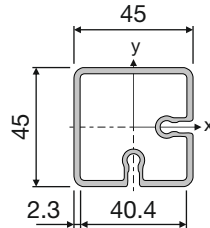
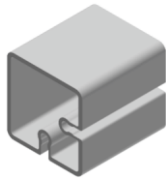
# TELESKOPPROFILE

## TELESCOPE PROFILES

### PROFILES TELESCOPIQUES



**40/45**



**05.01946.00**

M = 1,20 kg/m  
 $I_x = 11,80 \text{ cm}^4$   
 $W_x = 5,24 \text{ cm}^3$   
 $I_y = 11,80 \text{ cm}^4$   
 $W_y = 5,24 \text{ cm}^3$

PE (m)  
 6 / 48 / 96

M8 L=65mm



**05.01971.00**

M8 x 14



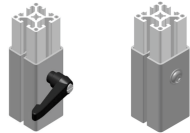
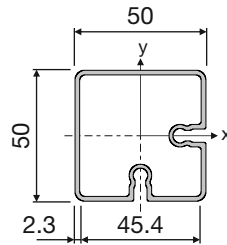
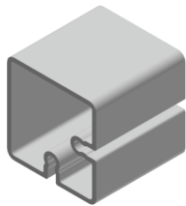
**05.01436.00**



**05.01652.00**

1x

**45/50**



**05.01947.00**

M = 1,40 kg/m  
 $I_x = 17,07 \text{ cm}^4$   
 $W_x = 7,59 \text{ cm}^3$   
 $I_y = 17,07 \text{ cm}^4$   
 $W_y = 7,59 \text{ cm}^3$

PE (m)  
 6 / 48 / 96

M8 L=65mm



**05.01971.00**

M8 x 14



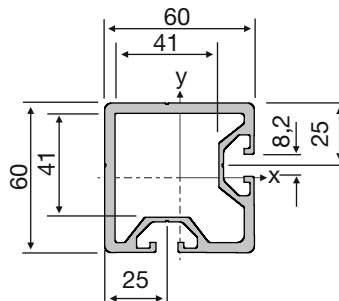
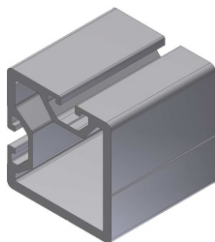
**05.01436.00**



**05.01064.00**

1x

**60x60**



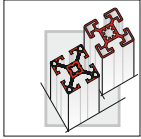
**05.01951.00**

M = 3,02 kg/m  
 $I_x = 52,04 \text{ cm}^4$   
 $W_x = 17,28 \text{ cm}^3$   
 $I_y = 53,06 \text{ cm}^4$   
 $W_y = 17,63 \text{ cm}^3$

PE (m)  
 6

Technische Änderungen vorbehalten

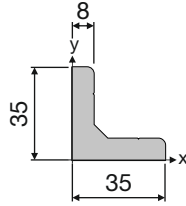
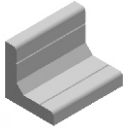
2



**WINKELPROFILE**  
**ANGLE PROFILES**  
**PROFILES D'EQUERRE**



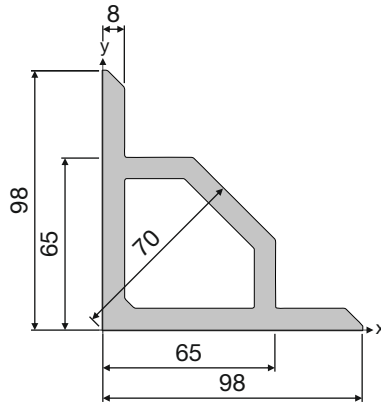
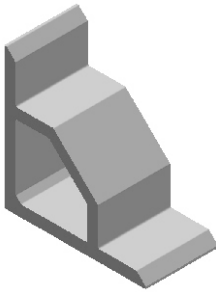
**35x35**



**05.01150.00**

M = 1,37 kg/m  
 $I_x = 11,84 \text{ cm}^4$   
 $W_x = 6,77 \text{ cm}^3$   
 $I_y = 11,84 \text{ cm}^4$   
 $W_y = 6,77 \text{ cm}^3$   
 PE (m)  
 6 / 48 / 96

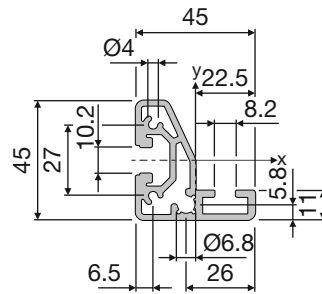
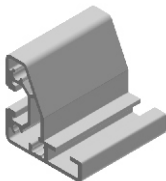
**98x98**



**05.01154.00**

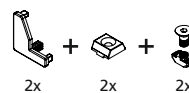
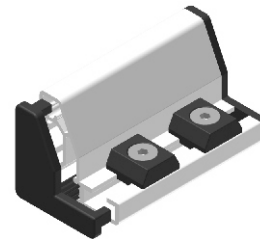
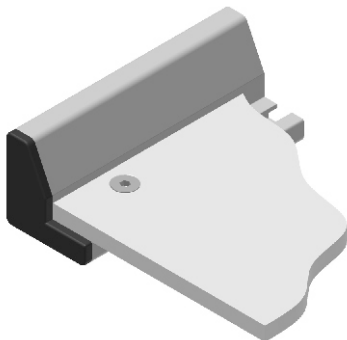
M = 5,78 kg/m  
 $I_x = 380,13 \text{ cm}^4$   
 $W_x = 77,58 \text{ cm}^3$   
 $I_y = 380,13 \text{ cm}^4$   
 $W_y = 77,58 \text{ cm}^3$   
 PE (m)  
 6 / 24 / 48

**45x45**



**05.01034.00**

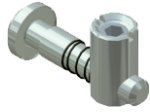
M = 1,19 kg/m  
 $I_x = 9,74 \text{ cm}^4$   
 $W_x = 4,33 \text{ cm}^3$   
 $I_y = 9,28 \text{ cm}^4$   
 $W_y = 4,13 \text{ cm}^3$   
 PE (m)  
 6 / 48 / 96



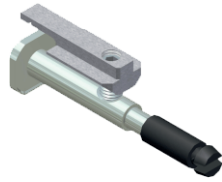
**05.01478.00**

Technische Änderungen vorbehalten

**VERBINDER**  
CONNECTION  
JUNCTION



■ 3.02



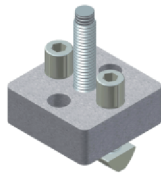
■ 3.04



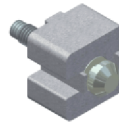
■ 3.05



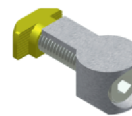
■ 3.06



■ 3.08



■ 3.10



■ 3.11



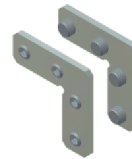
■ 3.12



■ 3.12.2



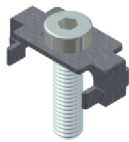
■ 3.13



■ 3.14



■ 3.15



■ 3.16



■ 3.18



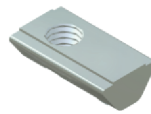
■ 3.20



■ 3.22



■ 3.23



■ 3.24



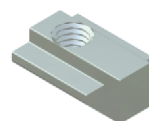
■ 3.28



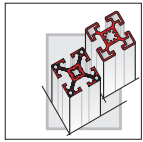
■ 3.29



■ 3.30



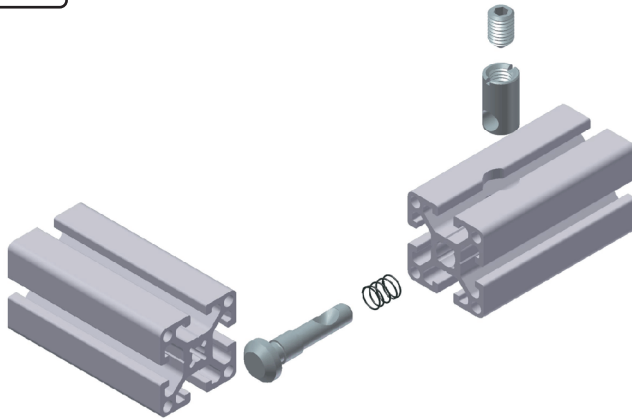
■ 3.30



# GRUNDVERBINDER BASE CONNECTOR JONCTION DE BASE



**GV**



Bestehend aus:  
 Hammerbolzen St, vz.  
 Hülse St, vz.  
 Feder  
 Gewindestift

Consisting of:  
 Hammerhead bolt St, galv.  
 Sleeve St, galv.  
 Spring  
 Setscrew

Comprenant :  
 Pièce d'ancrage Ac, zing.  
 Barillet GV Ac, zing.  
 Ressort  
 Vis pointeau

### Innovative Vorteile

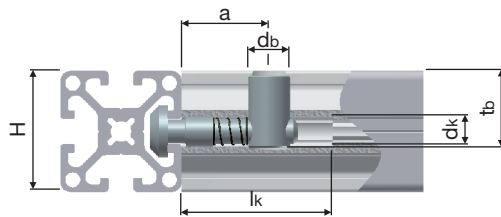
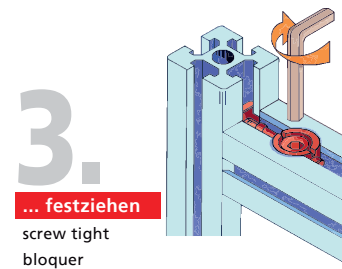
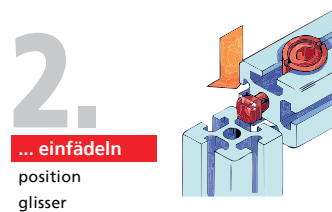
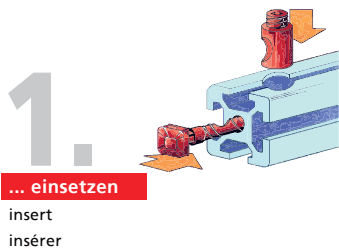
- Einfache und schnelle Montage
- Ringschnitten an Verbinderkopf (GV-0)
- Elektrisch leitfähige Verbindung
- Hohe Vielfalt der Verbinderfamilie
- Als Außen- und Innenverbindung einsetzbar

### Innovative advantages

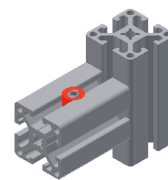
- Easy and fast fitting
- Cutting edge on connector head (GV-0)
- Electrical conductive connector
- Highly versatile connector family
- Can be used as inner-fitting and outerfitting connector

### Atouts novateurs

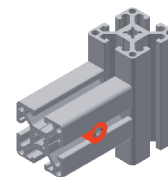
- Montage rapide et simple
- Empreinte anti-glissement (GV-0)
- Assemblage conducteur
- Positionnement réglable et universel
- Etude simplifiée



H	db	dk	a	tb	lk
	Ø7,5	Ø5,0	15	14,3	30
	Ø10,5	(Ø 6,8)	18	22	-
	Ø14,2	(Ø10,2)	29	20,5	-
	Ø14,2	Ø10,2	29	26	45
	Ø14,2	(Ø10,2)	29	26	-
	Ø16,2	(Ø10,2)	29	30	-
	Ø16,2	(Ø10,2)	29	32,5	-



Innenliegende Verbindung  
 Inner-fitting connector  
 Positionnement interne



Außenliegende Verbindung  
 Outer-fitting connector  
 Positionnement externe

➔ ■ 14.01



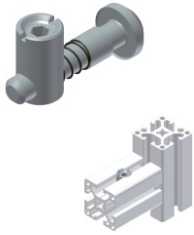
Technische Änderungen vorbehalten

# GRUNDVERBINDER BASE CONNECTOR JONCTION DE BASE



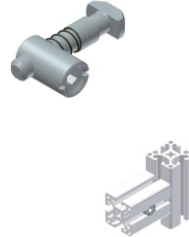
5 8E 8 10

## GV-0



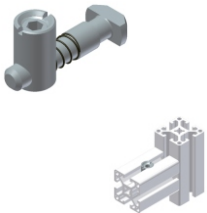
	15Nm	05.01590.00
	19Nm	05.02150.00
	26Nm	05.01596.00
	30Nm	05.01351.00
	35Nm	05.01352.00
	35Nm	05.01270.00

## GV-01



	26Nm	05.01597.00
	33Nm	05.01110.00
	38Nm	05.01112.00
	38Nm	05.01271.00

## GV-02



	26Nm	05.01598.00
	33Nm	05.01111.00
	38Nm	05.01113.00
	38Nm	05.01272.00

## GS-01



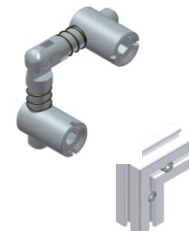
	26Nm	05.02243.00
	12Nm	05.01353.00
	15Nm	05.01357.00
	13Nm	05.01357.50

## GS-02



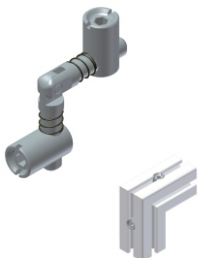
	10Nm	05.02244.00
	12Nm	05.01354.00
	15Nm	05.01358.00
	13Nm	05.01361.00

## GGV-01



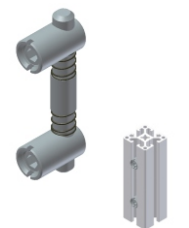
	10Nm	05.02245.00
	12Nm	05.01585.00
	15Nm	05.01553.00
	13Nm	05.01557.00

## GGV-02



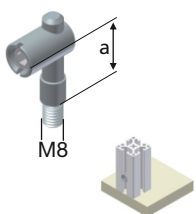
	10Nm	05.02246.00
	12Nm	05.01586.00
	15Nm	05.01554.00
	13Nm	05.01555.00

## GST



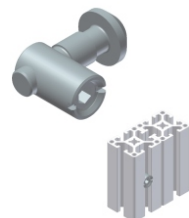
	26Nm	05.02247.00
	33Nm	05.01355.00
	38Nm	05.01359.00
	38Nm	05.01359.50

## GSR



	26Nm	05.02248.00
	33Nm	05.01356.00
	38Nm	05.01360.00
	38Nm	05.01360.50

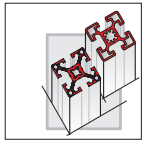
## GVP



	26Nm	05.02249.00
	33Nm	05.01445.00
	38Nm	05.01556.00
	38Nm	05.01556.50

3

Technische Änderungen vorbehalten



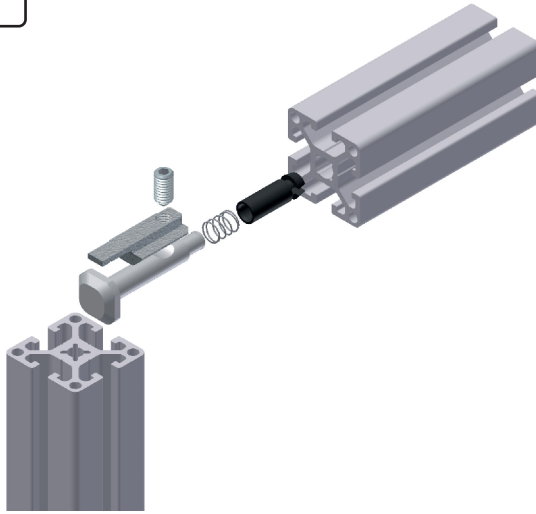
# AUTOMATIK-GV

## AUTOMATIC - BC (BASIC CONNECTOR)

### GV AUTOMATIQUE



#### AGV



Bestehend aus:  
 AGV-Stein GD-Zn  
 Druckfeder PA  
 Federhülse PA  
 Hammerbolzen St, vz.  
 Gewindestift

Consisting of:  
 AGV block GD-Zn  
 Compression spring PA  
 Spring sleeve PA  
 Hammerhead bolts St, galv.  
 Setscrew

Comprenant :  
 Pièce d'ancrage AGV GD-Zn  
 Ressort PA  
 Manchon sur ressort PA  
 Coulisseau AGV Ac, zing.  
 Vis pointeau

#### Innovative Vorteile

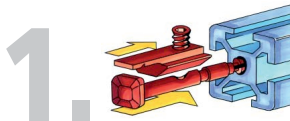
- Sehr einfache und schnelle Montage
- Automatische Zentrierung
- Geringe Profilbearbeitung
- Verdrehgesichert durch Kopfform
- Ringschneide an Verbinderkopf
- Elektrische Leitfähigkeit
- Positionsgerechte, automatische Fügstellung

#### Innovative advantages

- Quick and easy to fit
- Automatic centring
- Minimum work on profile
- Head design prevents twisting
- Cutting edge on connector head
- Electrically conductive
- Automatic correct joint positioning

#### Atouts novateurs

- Montage très simple et rapide
- Auto-positionnement de l'ancrage
- Usinage minime du profilé
- Anti-rotation du profilé
- Empreinte anti-glissement
- Assemblage conducteur
- Autocentrage



1. ... einschieben

push in  
insérer



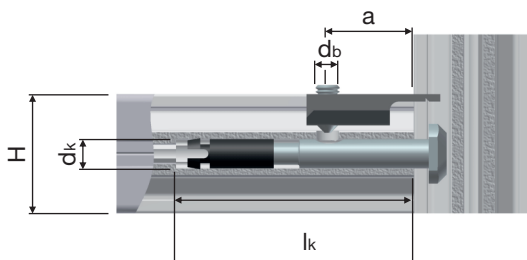
2. ... platzieren

position  
positionner



3. ... festziehen

screw tight  
bloquer



H	db	dk	a	lk	Nm
30 8E	Ø5,4	(Ø6,8)	18	-	10
30 8K	Ø7,6	(Ø10,2)	30	-	15
40 8	Ø7,6	Ø10 *	30	80	15
40 8	Ø7,6	(Ø10,2)	30	-	15
45 10	Ø9,6	(Ø10,2)	30	-	25
50 10	Ø9,6	(Ø10,2)	30	-	25

30 8E	05.01780.00
ohne Federhülse	
30 8K	05.02242.00
ohne Federhülse	
40 40 8	05.01781.10
45 10	05.01782.10
50 10	05.01757.00

\* = Aufbohren des Kernlochs mit  $d_k$

\* = Drilling the core hole with  $d_k$

\* = Le forage du trou de base avec  $d_k$



14.01

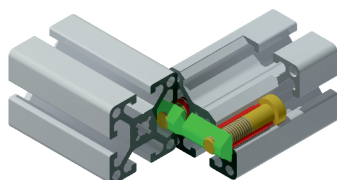
# HÜLSENVERBINDER

## SLEEVE CONNECTORS

### FIXATION - HV



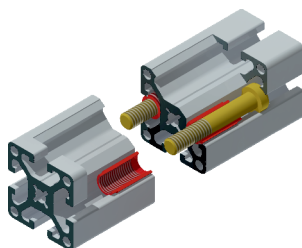
#### HV



Bestehend aus:  
 Hülse, SF St, vz.  
 ISO-Schraube St, vz.  
 Nutenstein St, vz.

Consisting of:  
 Sleeve, SF St, galv.  
 ISO screw St, galv.  
 Sliding block St, galv.

#### HV-Stoßverbinder



Comprenant:  
 Douilles-insert Ac, zing.  
 Vis ISO Ac, zing.  
 Coulisseau Ac, zing.



#### Innovative Vorteile

- Hülse selbstzentrierend durch langen Zentrierschaft
- Keine Profilbearbeitung
- Leichtes Eindrehen der Hülse durch Selbstfurchende Gewindeform "FM-Spezial" und Gleit-Mo-Beschichtung
- Hohe Verbindungsfestigkeit
- Stabile, verdrehgesicherte Verbindung
- Elektrische Leitfähigkeit

#### Innovative advantages

- Sleeve self-centring with long centring shaft
- No work on profiles
- Self-tapping thread "FM-Spezial" and Gleit-Mo coating make it easier to screw in sleeves
- High connecting strength
- Sturdy, non-twisting connection
- Electrically conductive

#### Atouts novateurs

- Insert autocentreur
- Aucun usinage du profilé
- Vissage facile par insert autotaraudeur "FM-Spezial" et enduction GleitMo
- Stabilité impeccable
- Antirotation du profilé
- Assemblage conducteur



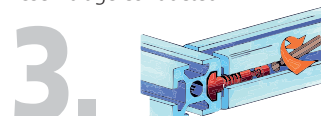
1. ... einschrauben

screw in  
visser



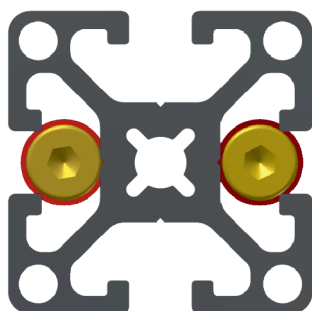
2. ... einfädeln

position  
insérer



3. ... festziehen

screw tight  
bloquer



Hülsenverbinder müssen grundsätzlich **PAARWEISE** eingesetzt werden.

Sleeve connectors must be used in **PAIRS**

Utilisation impérative par **PAIRE**

#### HV

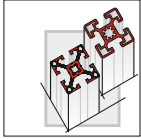


15 Nm	20	5		05.02173.10
19 Nm	30	8E		05.02127.10
22 Nm	40	8		05.02128.10 *
25 Nm	45	10		05.02129.10 *
25 Nm	45	10		05.02129.00

#### HV-Stoßverbinder

12 Nm	20	5		05.02439.00
20 Nm	40	8		05.02440.00 *
25 Nm	45	10		05.02441.00 *
* wird benötigt Sternschlüssel-Bit SX-50				05.02126.00

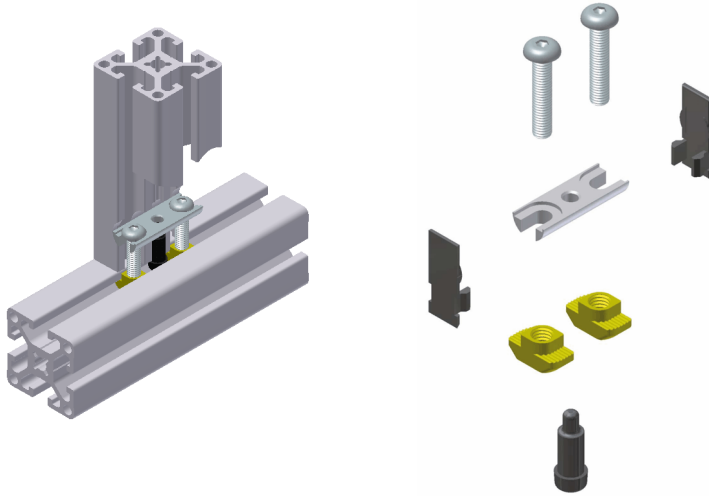
Technische Änderungen vorbehalten



# BOLZENVERBINDER BOLT CONNECTOR JONCTION A BOULONS



**BV**



Bestehend aus:  
 Bolzen St, vz.  
 ISO-Schrauben  
 Hammermuttern PA  
 Fixierbolzen  
 Abdeckkappen

Consisting of:  
 Bolts St, galv.  
 ISO screws  
 Hammer nuts PA  
 Fastening bolts  
 Caps

Comprenant:  
 Ancrage demi-lune Ac, zing.  
 Vis ISO  
 Ecrou de rainure  
 Centreur PA  
 Capuchon

### Innovative Vorteile

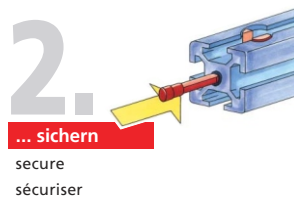
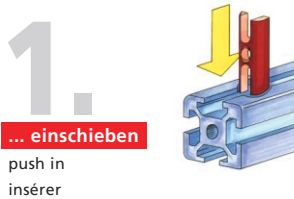
- Sehr hohe Verbindungs- und Verdrehfestigkeit
- Selbstzentrierend durch Zentrierzapfen
- Beidseitig gleichmäßiger Anzug über Hammermuttern
- Leitfähige Verbindung durch Riefen an der Hammermutter

### Innovative advantages

- High connecting strength and twist resistance
- Centring pin for self-centring
- Even tightening on both sides with hammer nuts
- Ribbing on hammer nuts for conductive connection

### Atouts novateurs

- Stabilité et blocage impeccables
- Autocentrage par pion axial
- Serrage bilatéral uniforme par vis et écrou de rainure
- Assemblage conducteur



### Ausführung

- A** Stahl, verzinkt  
Zugfestigkeit ca. 550N/mm<sup>2</sup>
- B** Zinkdruckguss  
Zugfestigkeit ca. 300N/mm<sup>2</sup>

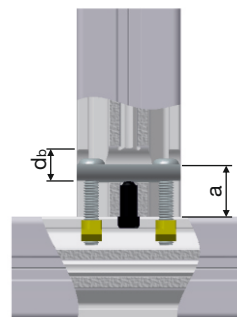
### Design

- A** Galvanized steel  
tensile strength 550N/mm<sup>2</sup>
- B** Zinc diecast  
tensile strength 300N/mm<sup>2</sup>

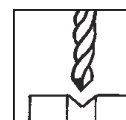
### Matières

- A** Acier zingué  
Résistance 550N/mm<sup>2</sup>
- B** Zamak  
Résistance 300N/mm<sup>2</sup>

H	d <sub>h</sub>	a	Nm
30	Ø11,2	18	6
30 <sup>long</sup>	Ø11,2	18	6
40	Ø14,2	20	22
45	Ø17,2	22,5	25
50	Ø17,2	22,5	25



➔ ■ 14.01



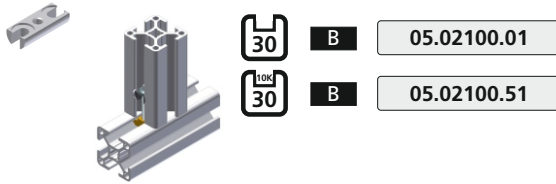
Technische Änderungen vorbehalten



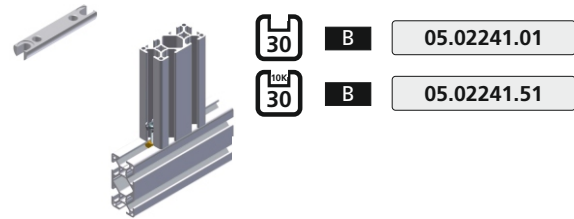
**BOLZENVERBINDER**  
**BOLT CONNECTOR**  
**JONCTION A BOULONS**



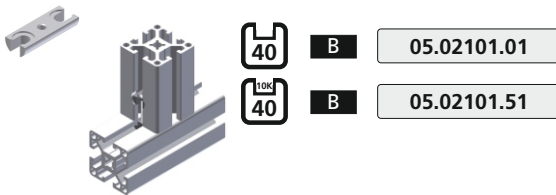
**BV Ø11 L=30**



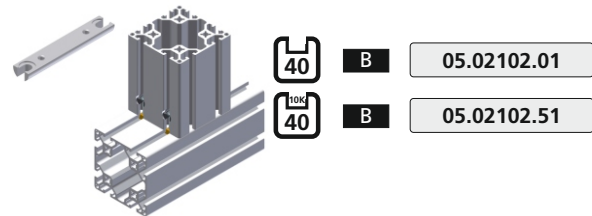
**BV Ø11 L=60**



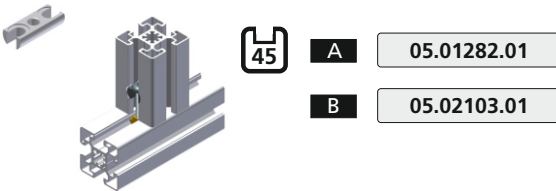
**BV Ø14 L=40**



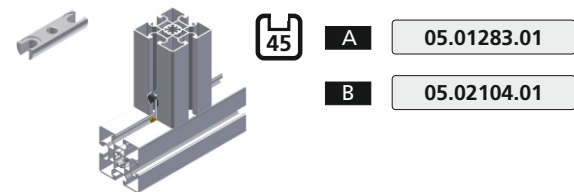
**BV Ø14 L=80**



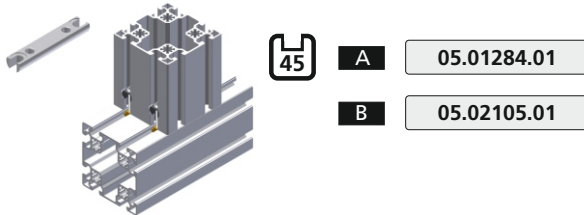
**BV Ø17 L=45**



**BV Ø17 L=60**

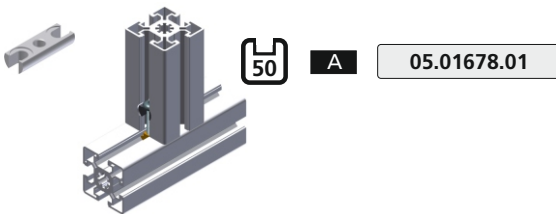


**BV Ø17 L=90**

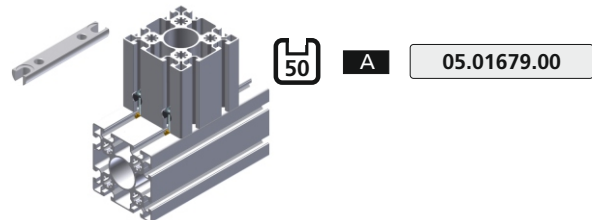


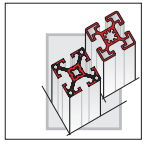
Artikel auf dieser Seite:  
 PE (St.) = 10

**BV Ø17 L=50**



**BV Ø17 L=100**

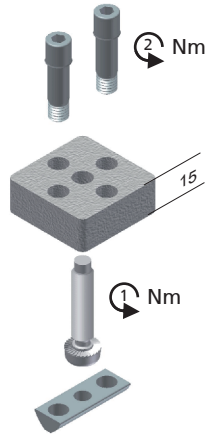
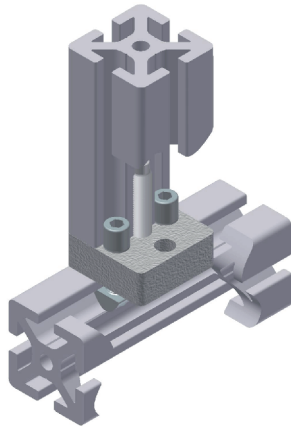




# PLATTENVERBINDER PLATE CONNECTOR FIXATION PV



**PV**



Bestehend aus:  
Platte GD-Zn  
Passschraube St, vz.  
FM-Schraube  
Nutenstein

Consisting of:  
Plate GD-Zn  
Set screw St, galv.  
FM screw  
Sliding block

Comprenant:  
Platine GD-Zn  
Vis épaulée Ac, zing.  
Vis FM autotaraudeuse  
Barrette écrou

### Innovative Vorteile

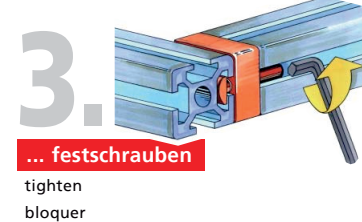
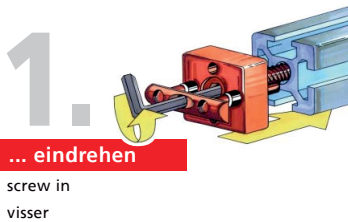
- Einfaches Verbinden ohne Profilbearbeitung
- Leichtes Eindrehen durch selbst-furchende Verbinderschraube mit "FM-Spezial"-Gewinde
- Exakte und automatische Zentrierung
- Schnelle Montage durch vormontierte Einheit
- Leitfähige Verbindung

### Innovative advantages

- Easy connection without work on profile
- Self-tapping connector screw with "FM-Spezial"-thread for easy screwing in
- Exact and automatic centring
- Pre-assembled unit for quick fitting
- Conductive connection

### Atouts novateurs

- Fixation aisée - aucune opération d'usinage
- Vissage facile par vis autotaraudeuse
- Autocentrage automatique
- Assemblage conducteur
- Compatibilité avec tous profilés et rainures existants



### Ausführung

- A** Zinkdruckguss  
Zugfestigkeit ca. 300N/mm<sup>2</sup>
- B** RAL 9006

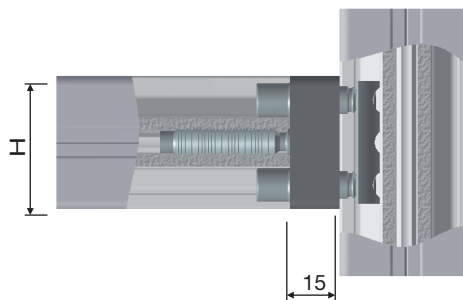
### Design

- A** Zinc diecast  
tensile strength 300N/mm<sup>2</sup>
- B** RAL 9006

### Matières

- A** Zamak  
Résistance ca. 300N/mm<sup>2</sup>
- B** RAL 9006

H	① Nm	② Nm
40	25	22
45	35	26
50	35	26

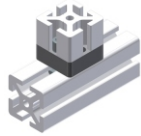


Technische Änderungen vorbehalten

# PLATTENVERBINDER PLATE CONNECTOR FIXATION PV



## 40x40



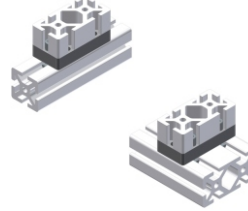
	<b>A</b>	05.01760.00
	<b>B</b>	05.01760.20



		05.01761.00
--	--	-------------

Eine Nut offen  
· One groove open  
· Une rainure ouverte

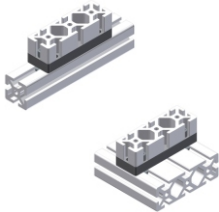
## 40x80



	<b>A</b>	05.01762.00
	<b>B</b>	05.01762.20

	<b>A</b>	05.01762.02
	<b>B</b>	05.01762.22

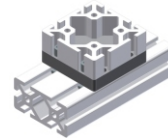
## 40x120



	<b>A</b>	05.01689.00
	<b>B</b>	05.01689.20

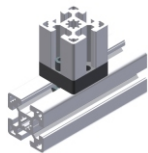
	<b>A</b>	05.01689.02
	<b>B</b>	05.01689.22

## 80x80



	<b>A</b>	05.01764.00
	<b>B</b>	05.01764.20

## 45x45



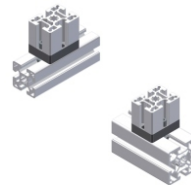
	<b>A</b>	05.01766.00
	<b>B</b>	05.01766.20



		05.01767.00
--	--	-------------

Eine Nut offen  
· One groove open  
· Une rainure ouverte

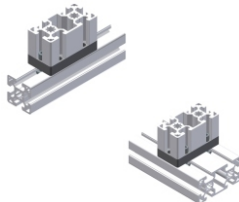
## 45x60



	<b>A</b>	05.01699.00
	<b>B</b>	05.01699.20

	<b>A</b>	05.01768.00
	<b>B</b>	05.01768.20

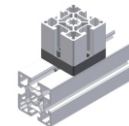
## 45x90



	<b>A</b>	05.01769.00
	<b>B</b>	05.01769.20

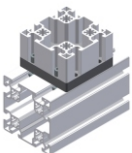
	<b>A</b>	05.01769.02
	<b>B</b>	05.01769.22

## 60x60



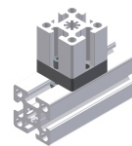
	<b>A</b>	05.01770.00
	<b>B</b>	05.01770.20

## 90x90



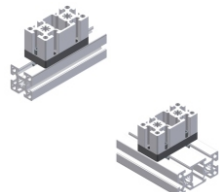
	<b>A</b>	05.01772.00
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## 50x50



	<b>A</b>	05.01680.00
	<b>B</b>	05.01680.20

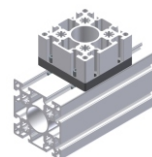
## 50x100



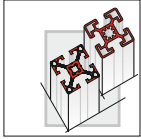
	<b>A</b>	05.01682.00
	<b>B</b>	05.01682.20

	<b>A</b>	05.01682.02
	<b>B</b>	05.01682.22

## 100x100



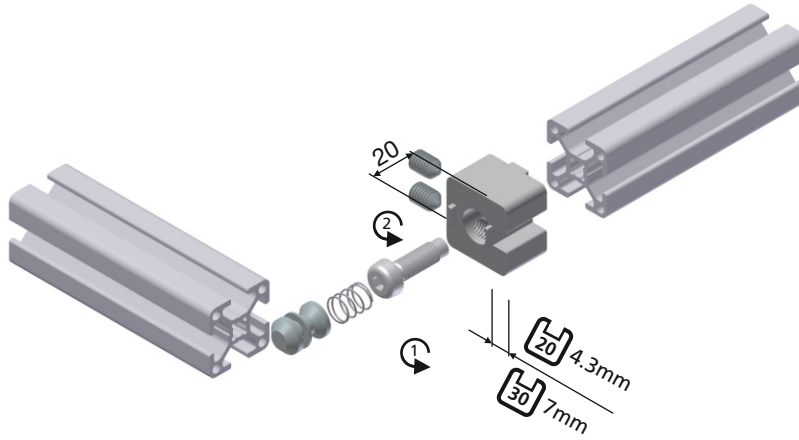
	<b>A</b>	05.01683.00
	<b>B</b>	05.01683.20



# END-VERBINDER END CONNECTOR NOIX TERMINALE - END



**END**



Bestehend aus:  
Grundkörper GD-Zn  
FM-Schraube St, vz.  
Feder  
Gewindestift  
Bolzen

Consisting of:  
Basic unit GD-Zn  
FM screw St, galv.  
Spring  
Set screw  
Bolts

Comprenant:  
Noix GD-Zn  
Vis FM autotaraudeuse  
Ressort Ac, zing.  
Pion de guidage  
Vis pointeau

### Innovative Vorteile

- Einfaches verbinden
- Ohne Profilbearbeitung
- Leichtes eindrehen durch selbstfurchende Schraube
- Aufnahme von Flächenelementen

### Innovative advantages

- Easy to connect
- Without work on profile
- Easy to screw in self-tapping connecting screw
- Attachment of panel elements

### Atouts novateurs

- Fixation aisée
- Aucun usinage
- Vissage facile par vis autotaraudeuse
- Adaptation de panneaux de remplissage

### Ausführung

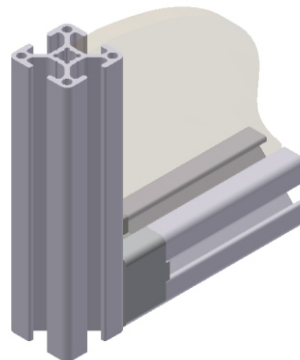
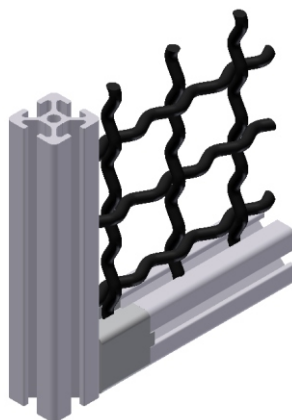
- A** GD-Zn, natur
- B** GD-Zn, RAL 9006

### Design

- A** Zinc diecast (GD-Zn), natural
- B** Zinc diecast (GD-Zn), RAL 9006

### Matières

- A** Zamak, nature
- B** Zamak, RAL 9006



**20** **5** **A** 05.01640.00

**B** 05.01642.00

1 15 Nm

2 15 Nm

**30** **8E** **A** 05.01641.00

**B** 05.01643.00

1 25 Nm

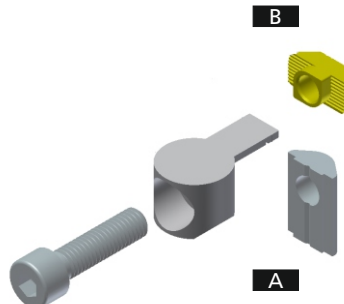
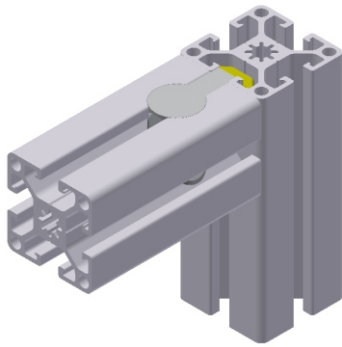
2 18 Nm

Technische Änderungen vorbehalten

# UNI-VERBINDER UNI CONNECTOR FIXATION UNI



## UNI



Bestehend aus:  
UNI-Verbinderstück GD-Zn  
ISO-Schraube St, vz.  
Hammermutter oder  
Nutenstein

Consisting of:  
UNI connector GD-Zn  
ISO screw St, galv.  
Hammer nuts or  
Sliding block

Comprenant:  
Barillet UNI GD-Zn  
Vis ISO Ac, zing.  
Ecrou de rainure ou  
Barrette écrou

3

### Innovative Vorteile

- Für alle Profilmuten einsetzbar
- Nachträglicher Einbau
- Verdrehgesicherte Verbindung
- Leitfähige Verbindung durch Riefen an der Hammermutter
- Universell einsetzbar, da kombinierbar mit allen Nuten

### Innovative advantages

- Suitable for all profile slots
- Retrofittable
- Non-twisting connector
- Ribbing on hammer nut for conductive connection
- Combinable with all slots for universal application

### Atouts novateurs

- Positionnement réglable et universel
- Insérable dans une structure sans redémontage
- Anti-rotation du profilé
- Assemblage conducteur
- Compatibilité avec tous profilés et rainures existants

Verbinder sollten **PAARWEISE** eingesetzt werden

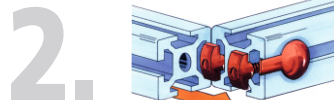
Connectors should be used in **PAIRS**

Résistance optimale par **PAIRE**



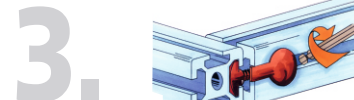
**1. ... einschieben**

push in  
insérer



**2. ... einfädeln**

position  
glisser



**3. ... festziehen**

tighten  
bloquer



H	Db	db	a	tb	Nm
20 5	Ø12	Ø4,3	10	8,5	5
30 8E	Ø16	Ø5,5	15	12,7	15
40 8	Ø20	Ø7	20	16	25
45 10	Ø20	Ø7	20	16	30
50 10	Ø20	Ø7	20	16	30

20 5 A 05.01608.00

30 8E A 05.01609.00

B 05.01609.50

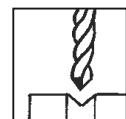
40 8 A 05.01610.00

B 05.01610.50

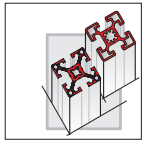
45 10 A 05.01644.00

50 10 B 05.01644.50

➔ ■ 14.01



Technische Änderungen vorbehalten



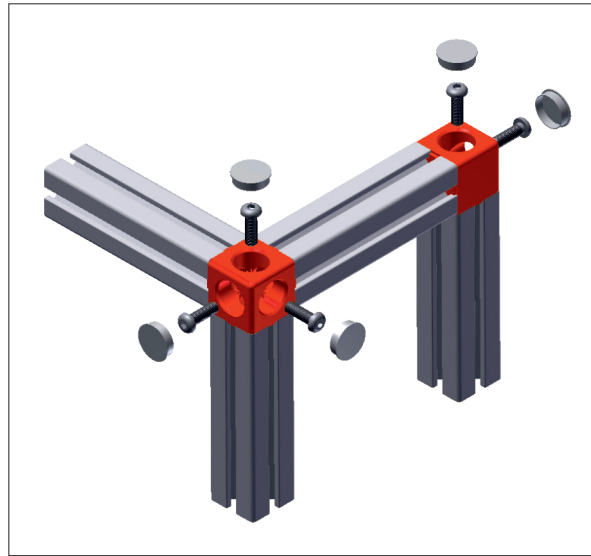
# WÜRFELVERBINDER CUBE CONNECTOR RACCORD DE CUBE



- Für verdrehgesicherte Eckverbindungen
- Keine Endenbearbeitung
- Leichtes Eindrehen durch selbstfurchende Verbinderschraube mit "FM-Spezial"-Gewinde

- For non-twisting corner connection
- No work on profile
- Self-tapping screw with "FM-Spezial"- thread for easy screwing in

- Pour jonction antirotation d'angle
- Aucun usinage de profile
- Vissage facile pour vis autotaradeuse



**20-90°/2** 5

	GD-AI	RAL 9006
	05.02276.00	05.02276.20
	05.02276.05	05.02276.25

**20-90°/3** 5

	GD-AI	RAL 9006
	05.02277.00	05.02277.20
	05.02277.05	05.02277.25

**30-90°/2** 8E

	GD-AI	RAL 9006
	05.02203.00	05.02203.20
	05.02203.05	05.02203.25

**30-90°/3** 8E

	GD-AI	RAL 9006
	05.02204.00	05.02204.20
	05.02204.05	05.02204.25

Technische Änderungen vorbehalten

**WÜRFELVERBINDER**  
**CUBE CONNECTOR**  
**RACCORD DE CUBE**



**40-90°/2** 8

GD-AI RAL 9006

+	<b>05.02205.00</b>	<b>05.02205.20</b>
+  +	<b>05.02205.05</b>	<b>05.02205.25</b>

**40-90°/3** 8

GD-AI RAL 9006

+	<b>05.02206.00</b>	<b>05.02206.20</b>
+  +	<b>05.02206.05</b>	<b>05.02206.25</b>

**45-90°/2** 10

GD-AI RAL 9006

+	<b>05.02209.00</b>	<b>05.02209.20</b>
+  +	<b>05.02209.05</b>	<b>05.02209.25</b>

**45-90°/3** 10

GD-AI RAL 9006

+	<b>05.02210.00</b>	<b>05.02210.20</b>
+  +	<b>05.02210.05</b>	<b>05.02210.25</b>

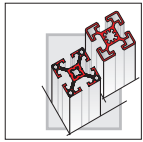
**50-90°/3** 10

GD-AI RAL 9006

+  +	<b>05.02212.05</b>	<b>05.02212.25</b>
------	--------------------	--------------------



Technische Änderungen vorbehalten



# ECKWINKEL 20, 30, 40, 45

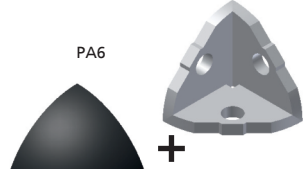
3-WAY CONNECTION ANGLE 20, 30, 40, 45

CORNIERE D'ANGLE 20, 30, 40, 45




**A** GD-Zn





PA6



+

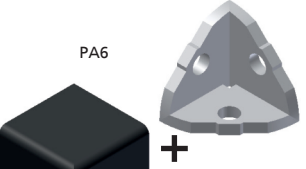


+


 M 5x16  
  SF 8x40  
 SF 12x40

**B** GD-Zn





PA6



+



+

 M 5x16  
  SF 8x40  
 SF 12x40

**C** GD-Zn

PA6



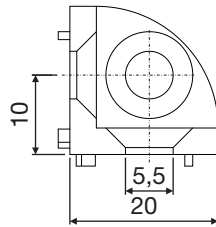
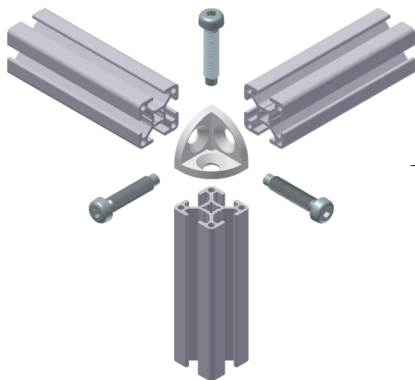
+



+

 SF 8x40  
 SF 12x40

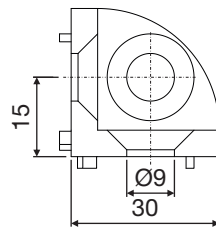
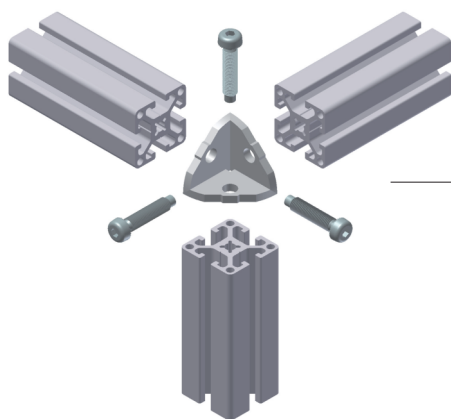
**20**   **30**



 **A** 05.02080.00

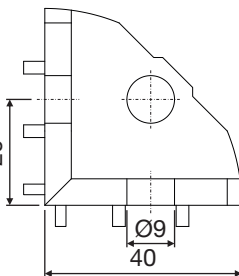
 **B** 05.02080.10

**40**   **45**



 **A** 05.02146.00

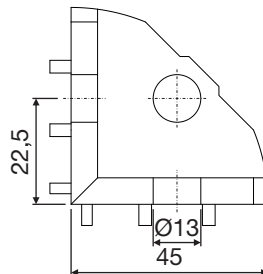
 **B** 05.02146.10



 **A** 05.02147.00

 **B** 05.02147.10

 **C** 05.02147.20



 **A** 05.02124.00

 **B** 05.02124.10

Technische Änderungen vorbehalten

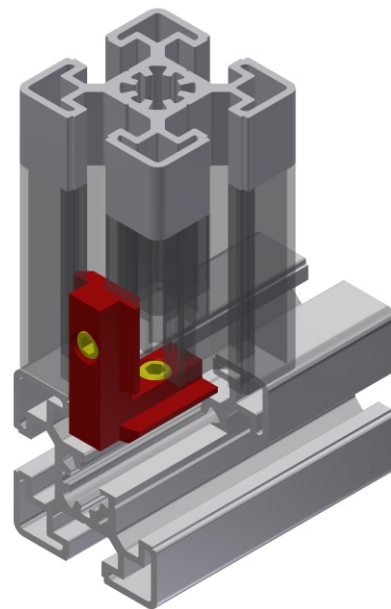
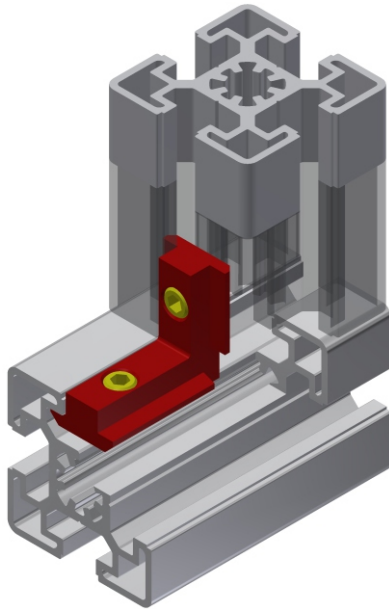


**INNENWINKEL**  
INTERNAL ANGLE  
ANGLE INTÉRIEUR



Typ **A**

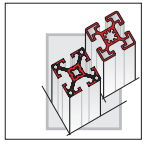
Typ **M**



3

		<b>A</b>	05.02389.00
		<b>M</b>	05.02388.00
		<b>A</b>	05.02391.00
		<b>M</b>	05.02390.00

Technische Änderungen vorbehalten



# FM-SCHRAUBEN

## FM-SCREW

### VIS FM



#### Innovative Vorteile

- Kein Gewinde schneiden
- Selbstfurchende Gewindeform
- Hohe Verbindungsfestigkeit
- Perfektes Handling durch tiefen Innensechskant
- Hohe Sicherung durch starke Sperrverzahnung am Schraubenkopf
- Elektrisch leitfähig

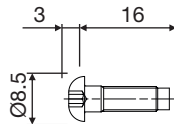
#### Innovative advantages

- No thread cutting
- Self-tapping thread form
- High connecting strength
- Deep hexagon socket for perfect handling
- Strong lock toothing on screw head for high safety
- Electrically conductive

#### Atouts novateurs

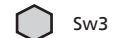
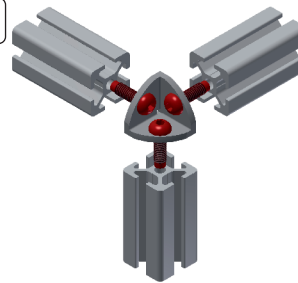
- Taraudage superflu
- Vissage facile autotaraudeur
- Blocage impeccable
- Serrage optimum - profondeur accentuée du six pans creux
- Blocage grip sous la tête de vis
- Assemblage conducteur

### SF 5x16



Anwendung

**END**

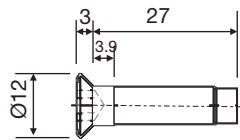


Sw3

15 Nm  
Festigkeitsklasse 8.8  
Strength class 8.8  
Classification de résistance 8.8

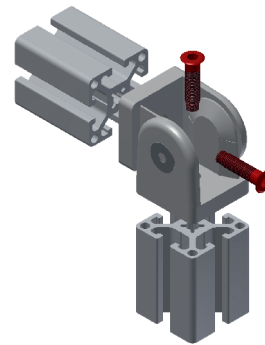
05.01126.00

### Senkschb. SF 7,1x30



Anwendung

**Gelenk**

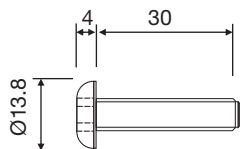


SW5

25 Nm  
Festigkeitsklasse 8.8  
Strength class 8.8  
Classification de résistance 8.8

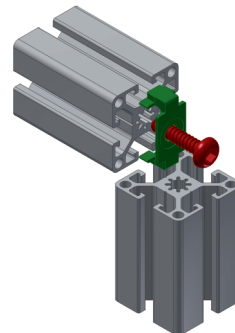
05.01538.00

### Flachkopfschb. SF 7,4x30



Anwendung

**VSI**  
**PV**  
**Gelenk**



SW5

25 Nm  
Festigkeitsklasse 8.8  
Strength class 8.8  
Classification de résistance 8.8

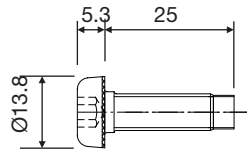
05.01125.50

Technische Änderungen vorbehalten

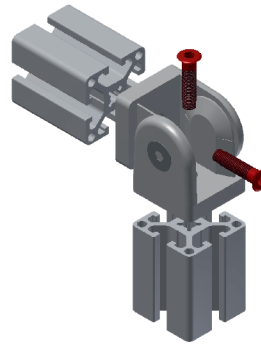
**FM-SCHRAUBEN**  
**FM-SCREW**  
**VIS FM**



**SF 8x25**



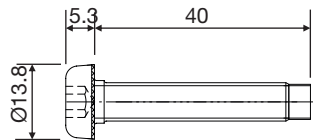
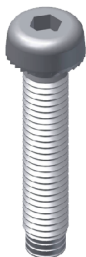
Anwendung  
**VSI**  
**PV**  
**Gelenk**



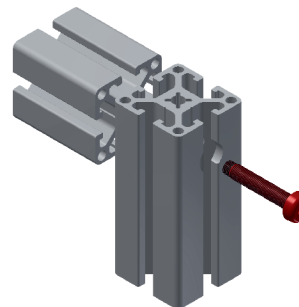
SW5  
 25 Nm  
 Festigkeitsklasse 8.8  
 Strength class 8.8  
 Classification de résistance 8.8  
**05.01124.00**



**SF 8x40**

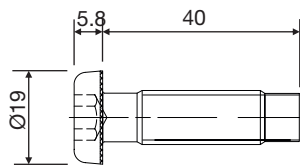


Anwendung  
**VSA**

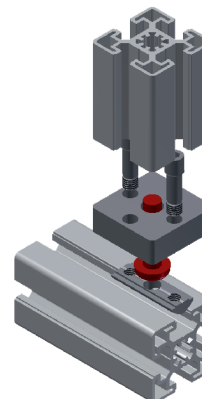


SW5  
 25 Nm  
 Festigkeitsklasse 8.8  
 Strength class 8.8  
 Classification de résistance 8.8  
**05.01125.00**

**SF 12x40**

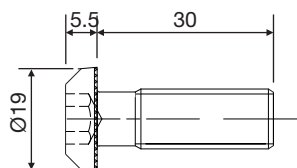


Anwendung  
**PV**  
**VSI**



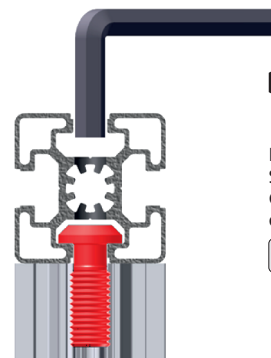
Sw8  
 35 Nm  
 Festigkeitsklasse 8.8  
 Strength class 8.8  
 Classification de résistance 8.8  
**05.01127.00**

**M12x30\***



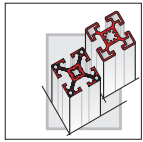
Anwendung  
**VSI**

\*M12



Sw8  
 40 Nm  
 Festigkeitsklasse 8.8  
 Strength class 8.8  
 Classification de résistance 8.8  
**05.01083.00**

Technische Änderungen vorbehalten



# GEHRUNGSVERBINDER MITRE CONNECTOR JOINT A ONGLET



### Innovative Vorteile

- Gehrungsverbindung von Profilen, die unter 30° bzw. 45° gesägt sind
- Vibrationsfreie Verbindung durch Spezialschrauben

### Innovative advantages

- Mitre connector of profiles that are sawn below 30° or 45°
- Special screws for non-vibrating connection

### Atouts novateurs

- Assemblages coupés d'onglet à 30° et 45°
- Aucun usinage

### Ausführung

Stahlblech, verzinkt

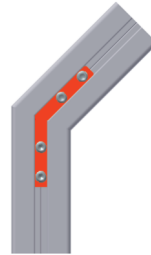
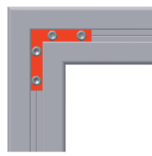
### Design

Sheet steel, galv.

### Version

Plaque d'acier zinguée

### Anwendungsbeispiele Applications • Applications



GEV-8

6 Nm  
05.01290.00

GEV-10

10 Nm  
05.01291.00

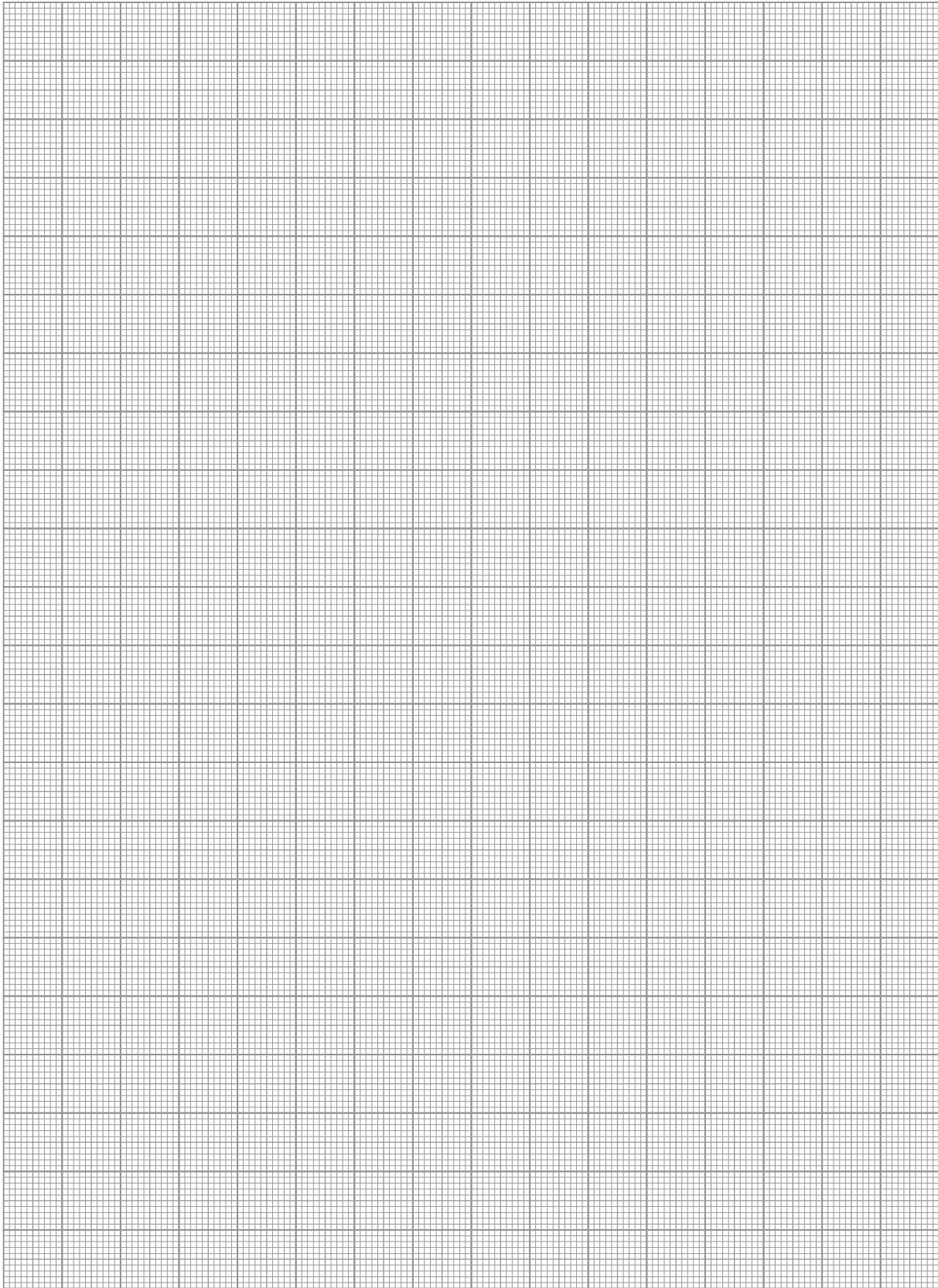
GEV-8-45°

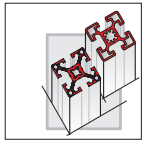
6 Nm  
05.01253.00

GEV-10-45°

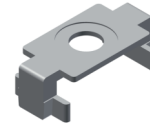
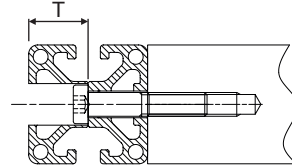
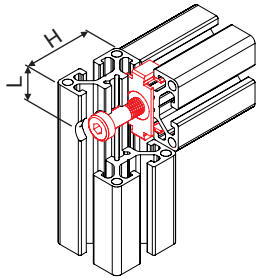
10 Nm  
05.01254.00

Technische Änderungen vorbehalten



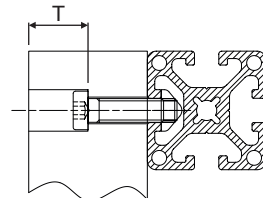
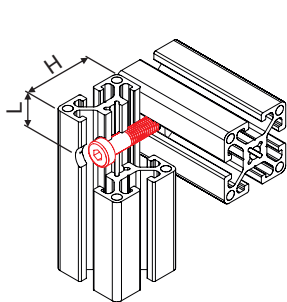


**VERBINDERSCHRAUBE AUSSEN**  
**CONNECTOR SCREW EXTERNAL**  
**VIS DE JONCTION EXTERIEUR**



Verdrehsicherung  
 Anti-torsion element  
 Securite anti-torsion

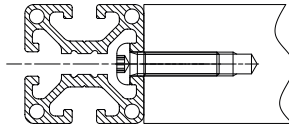
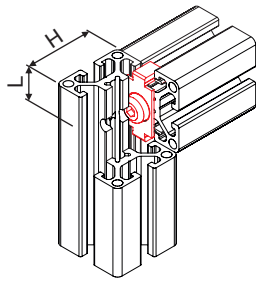
		H	T	L		DIN 7984		DIN 7984 + DIN 7984	
<b>VSA 10</b>		20x20	6.5	10	M5 x 25	<b>05.01497.00</b>		<b>05.02279.00</b>	
		40x40	6.5	10	M5 x 50	<b>05.01618.00</b>		<b>05.01560.00</b>	
<b>VSA 14</b>		30x30	10	15	M8 x 40	<b>05.01505.00</b>		<b>05.01137.00</b>	
			40x40	12,5	20	M8 x 50	<b>05.01620.00</b>		<b>05.01561.00</b>
			80x80	52,5	20	M8 x 50	<b>05.01620.00</b>		<b>05.01561.00</b>
<b>VSA 20</b>		45x45	13.5	22.5	M12 x 60	<b>05.01508.00</b>	ISO 4762	<b>05.01562.00</b>	
		60x60	13.5	30	M12 x 80	<b>05.01619.00</b>	ISO 4762	<b>05.01562.00</b>	
		90x90	58.5	22.5	M12 x 110	<b>05.01509.00</b>	ISO 4762	<b>05.01368.00</b>	



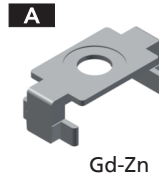
		H	T	L		DIN 7984			
<b>VSA 10</b>		20x20	6.5	10	M5 x 20	<b>05.01496.00</b>		<b>05.01656.00</b>	
		40x40	6.5	10	M5 x 40	<b>05.01392.00</b>		<b>05.01656.00</b>	
<b>VSA 14</b>		30x30	10	15	M8 x 25	<b>05.01503.00</b>		<b>05.01870.00</b>	
			40x40	12,5	20	M8 x 30	<b>05.01504.00</b>		<b>05.01652.00</b>
			80x80	52,5	20	M8 x 30	<b>05.01504.00</b>		<b>05.01652.00</b>
<b>VSA 14</b>		45x45	13,5	22.5	M8 x 30	<b>05.01504.00</b>		<b>05.01064.00</b> <b>05.01107.00</b>	
		60x60	13.5	30	M8 x 55	<b>05.01649.00</b>		<b>05.01064.00</b> <b>05.01107.00</b>	
		90x90	58.5	22.5	M8 x 40	<b>05.01505.00</b>		<b>05.01064.00</b> <b>05.01107.00</b>	

Technische Änderungen vorbehalten

# VERBINDERSCHRAUBE INNEN CONNECTOR SCREW INTERNAL VIS DE JONCTION INTERIEUR



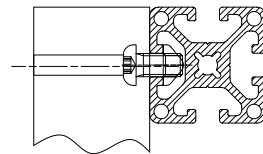
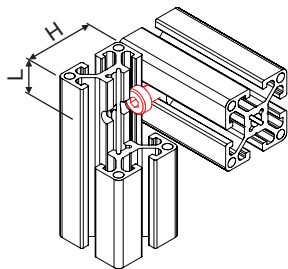
Verdrehsicherung  
Anti-torsion element  
Securite anti-torsion



3

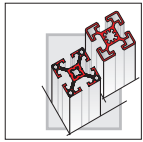
Ø	Profile	Size	Verdrehsicherung		SF	Part No.	Screw	Part No.
			A	B				
Ø4.3	5	20x20	A	<del>X</del>	SF 5 x 16	05.01362.00	M5 x 16	05.01365.00
			B	<del>X</del>	SF 5 x 16	05.02201.10	M5 x 16	05.02201.20
Ø7	8E	30x30					M8 x 25	05.01136.00
		8	A	<del>X</del>	* SF 8 x 25	05.01363.00	M8 x 25	05.01366.00
			B	<del>X</del>	* SF 8 x 25	05.02202.10	M8 x 25	05.02202.20
Ø9.5	10	45x45		<del>X</del>	SF12 x 40	05.01364.00	M12 x 30	05.01367.00
		90x90		<del>X</del>	SF12 x 40	05.01364.00	M12 x 30	05.01367.00

\* Nicht für 40x40EL, 40x80EL, 80x80EL geeignet



Ø	Profile	Size	L	Screw		Part No.	Part No.	Part No.	
				H	ISO 7380				
Ø4.3	5	20x20	10	M5 x 8	ISO 7380	05.01400.00	05.01656.00		
		40x40	10	M5 x 8	ISO 7380	05.01400.00	05.01656.00		
Ø7	8E	30x30	15	M8 x 12	ISO 7380	05.01419.00	05.01870.00		
		8	40x40	20	M8 x 16	ISO 7380	05.01412.00	05.01652.00	
			80x80	20	M8 x 16	ISO 7380	05.01412.00	05.01652.00	
Ø9.5	10	45x45	22.5	M8 x 16	ISO 7380	05.01412.00	05.01064.00	05.01107.00	
		60x60	30	M8 x 16	ISO 7380	05.01412.00	05.01064.00	05.01107.00	
		90x90	22.5	M8 x 16	ISO 7380	05.01412.00	05.01064.00	05.01107.00	

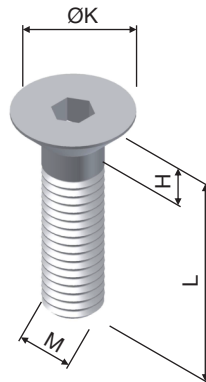
Technische Änderungen vorbehalten



# ISO-SCHRAUBEN

## ISO-SCREWS

### VIS-ISO



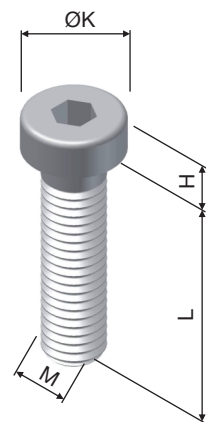
SW3 - M5  
SW4 - M6  
SW5 - M8

St, vz. - Festigkeitsklasse 8.8  
Steel, galvanized - Strength class 8.8  
Acier, galvanisé - Classification de résistance 8.8

#### ISO 10642 (DIN 7991)

M x L	ØK	H	
M5 x 8	9.5	2.75	05.02357.00
M5 x 10	9.5	2.75	05.02358.00
M5 x 12	9.5	2.75	05.02359.00

M x L	ØK	H	
M5 x 16	9.5	2.75	05.02342.00
M5 x 20	9.5	2.75	05.02343.00
M5 x 25	9.5	2.75	05.02344.00
M6 x 12	10.5	3.3	05.02345.00
M6 x 16	10.5	3.3	05.01758.00
M6 x 20	10.5	3.3	05.02346.00
M6 x 25	10.5	3.3	05.02347.00
M6 x 30	10.5	3.3	05.02348.00
M8 x 14	14	4.4	05.02349.00
M8 x 16	14	4.4	05.02350.00
M8 x 20	14	4.4	05.02351.00
M8 x 25	14	4.4	05.02352.00
M8 x 30	14	4.4	05.02353.00
M8 x 40	14	4.4	05.02354.00
M8 x 60	14	4.4	05.02355.00
M8 x 80	14	4.4	05.02356.00



SW3 - M5  
SW4 - M6  
SW5 - M8

St, vz. - Festigkeitsklasse 8.8  
Steel, galvanized - Strength class 8.8  
Acier, galvanisé - Classification de résistance 8.8

#### DIN 7984

M x L	ØK	H	
M5 x 10	8.5	3.5	05.01494.00
M5 x 16	8.5	3.5	05.01495.00
M5 x 20	8.5	3.5	05.01496.00

M x L	ØK	H	
M5 x 25	8.5	3.5	05.01497.00
M6 x 40	10	4	05.01523.00
M8 x 16	13	5	05.01500.00
M8 x 20	13	5	05.01502.00
M8 x 25	13	5	05.01503.00
M8 x 30	13	5	05.01504.00
M8 x 40	13	5	05.01505.00
M8 x 50	13	5	05.01620.00
M8 x 55	13	5	05.01649.00
M8 x 60	13	5	05.01506.00
M8 x 80	13	5	05.01507.00
M12x 60	18	12	ISO 4762 05.01508.00
M12x 80	18	12	ISO 4762 05.01619.00
M12x110	18	12	ISO 4762 05.01509.00
M16x100	24	16	ISO 4762 05.01621.00

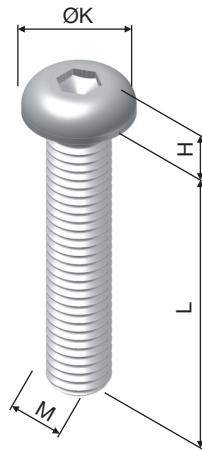
Technische Änderungen vorbehalten



# ISO-SCHRAUBEN

## ISO-SCREWS

### VIS-ISO



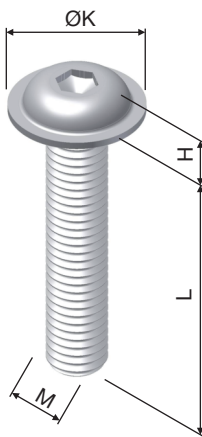
SW3 - M5  
SW4 - M6  
SW5 - M8

St, vz. - Festigkeitsklasse 10.9  
Steel, galvanized - Strength class 10.9  
Acier, galvanisé - Classification de résistance 10.9

#### ISO 7380

M x L	ØK	H	
M5 x 8	9.5	2.75	05.01400.00
M5 x 10	9.5	2.75	05.01401.00
M5 x 12	9.5	2.75	05.01402.00

M x L	ØK	H	
M5 x 16	9.5	2.75	05.01403.00
M5 x 20	9.5	2.75	05.01404.00
M5 x 25	9.5	2.75	05.01405.00
M6 x 12	10.5	3.3	05.01406.00
M6 x 16	10.5	3.3	05.01407.00
M6 x 20	10.5	3.3	05.01408.00
M6 x 25	10.5	3.3	05.01409.00
M6 x 30	10.5	3.3	05.01410.00
M8 x 14	14	4.4	05.01411.00
M8 x 16	14	4.4	05.01412.00
M8 x 20	14	4.4	05.01413.00
M8 x 25	14	4.4	05.01414.00
M8 x 30	14	4.4	05.01415.00
M8 x 40	14	4.4	05.01081.00
M8 x 60	14	4.4	05.01417.00
M8 x 80	14	4.4	05.01418.00



SW3 - M5  
SW4 - M6  
SW5 - M8

St, vz. - Festigkeitsklasse 10.9  
Steel, galvanized - Strength class 10.9  
Acier, galvanisé - Classification de résistance 10.9

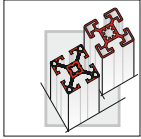
#### ähnlich ISO 7380

M x L	ØK	H	
M5 x 8	11.1	2.7	05.01425.00
M5 x 10	11.1	2.7	05.01426.00
M5 x 12	11.1	2.7	05.01427.00

M x L	ØK	H	
M5 x 16	11.1	2.7	05.01428.00
M5 x 20	11.1	2.7	05.01429.00
M5 x 25	11.1	2.7	05.01430.00
M6 x 12	13.3	3.2	05.01431.00
M6 x 16	13.3	3.2	05.01432.00
M6 x 20	13.3	3.2	05.01433.00
M6 x 25	13.3	3.2	05.01434.00
M6 x 30	13.3	3.2	05.01435.00
M8 x 14	17.8	4.3	05.01436.00
M8 x 16	17.8	4.3	05.01437.00
M8 x 20	17.8	4.3	05.01438.00
M8 x 25	17.8	4.3	05.01439.00
M8 x 30	17.8	4.3	05.01082.00
M8 x 40	17.8	4.3	05.01441.00
M8 x 60	17.8	4.3	05.01442.00
M8 x 80	17.8	4.3	05.01443.00

3





Technische Änderungen vorbehalten



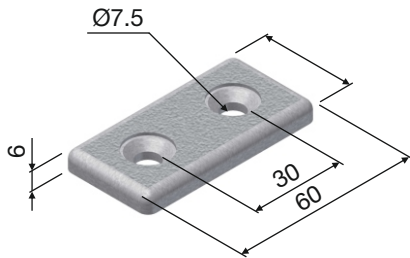
# VERBINDERLASCHEN CONNECTING STRAP PLAQUES



**Erforderliche Verbinder:**  
**Connectors required:**  
**Fixations recommandées:**

- A** Hammerschraube M8x15  05.01050.00
- B** Hammerschraube M8x20  05.01051.00
- C** ISO 10642 M6x12  05.02345.00
- D** ISO 10642 M6x16  05.01758.00
- E** ISO 10642 M8x16  05.02350.00
- F** FM-Schraube SF8x25  05.01124.00

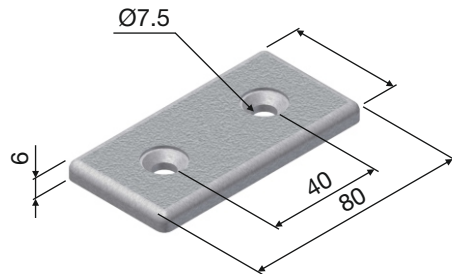
**30x60x6**



GD-Zn

**C D** 05.02073.00

**40x80x6**



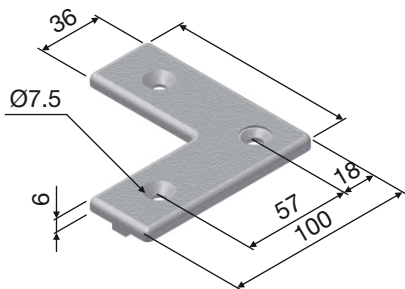
GD-Zn

**C D** 05.02033.00

**SZ-Winkel 100x100x6**



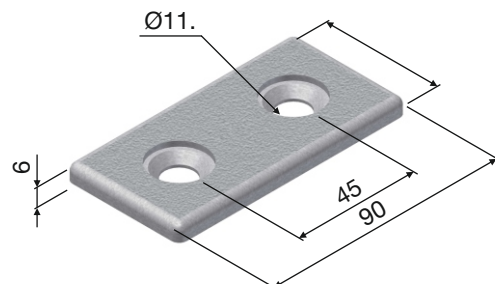
Bracket 100x100x6 · Equerre 100x100x6



GD-Zn

mit Zentrierfahnen  
with centering lugs  
avec ergots de centrage **D B** 05.02032.00

**45x90x6**





GD-Zn

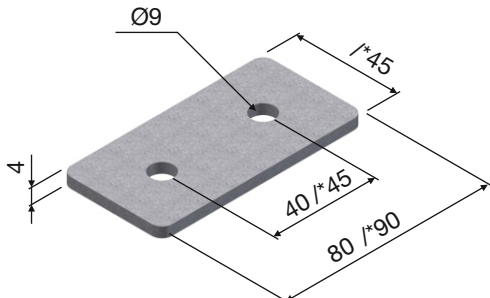
**E B** 05.02074.00

Technische Änderungen vorbehalten

# VERBINDERLASCHEN CONNECTING STRAP PLAQUES



**40x80x4** **45x90x4**  



St, vz 4 mm

<b>40x80x4</b>	<b>B</b>	05.01570.00
<b>*45x90x4</b>	<b>B</b>	05.01571.00



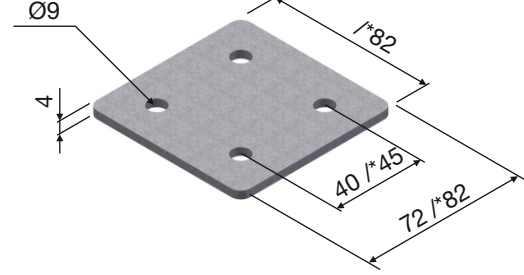

**Knotenplatte 80, 90**  

Plate 80, 90 · Plaque de renfort 80, 90

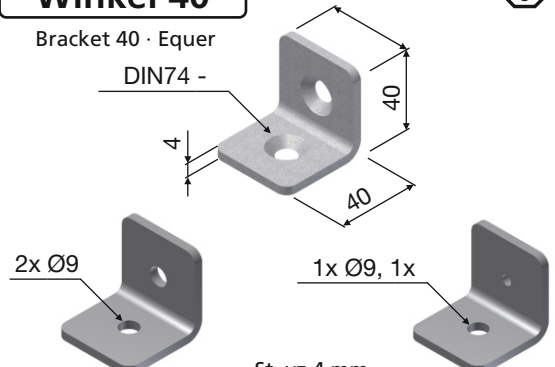


St, vz 4 mm

<b>80x80x4</b>	<b>B</b>	05.01568.00
<b>*90x90x4</b>	<b>B</b>	05.01569.00

**Winkel 40** 

Bracket 40 · Equer  
DIN74 -



2x Ø9      1x Ø9, 1x

St, vz 4 mm

<b>E</b>	05.01572.00
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St, vz 4 mm      St, vz 4 mm

05.01809.00	<b>A</b>	<b>A</b>	05.01808.00
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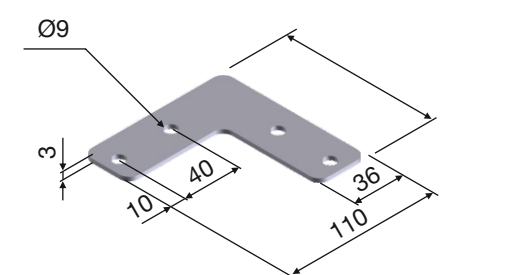


**Winkelplatte 90°**  

Plate angle 90° · Plaque de equer 90°

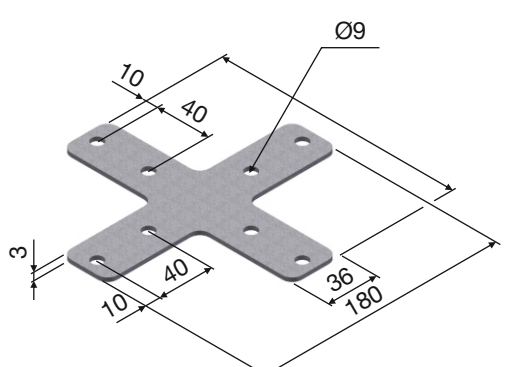


St, vz 3 mm

<b>B</b>	05.01160.00
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**Kreuzplatte**  

Cross plate · Croix-plaque

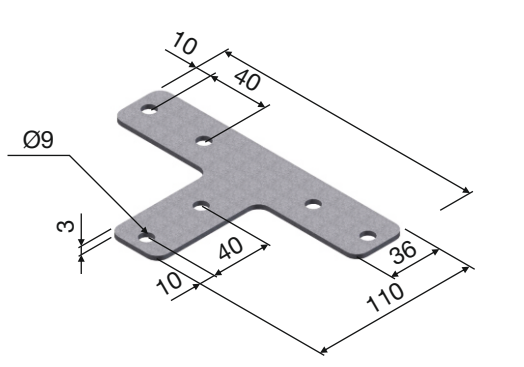


St, vz 3 mm

<b>B</b>	05.01162.00
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**T-Platte**  

T-plate · T-plaque

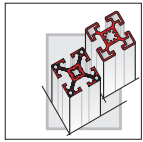


St, vz 3 mm

<b>B</b>	05.01161.00
----------	-------------

3

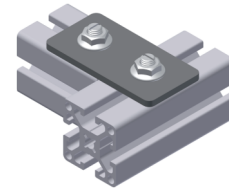
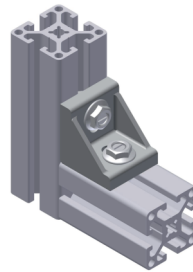
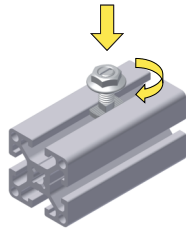
Technische Änderungen vorbehalten



# HAMMERSCHRAUBE

## T-BOLT

### VIS DE TOUR



#### Innovative Vorteile

- Für nachträgliche Befestigungen in Alu-Profilen
- Für leichte bis mittlere Belastungen
- Leichte und schnelle Montage
- Kostengünstige Verbindung

#### Innovative advantages

- For later fastening to aluminium profiles
- For light to medium loads
- Quick and easy to fit
- Economic connector

#### Atouts novateurs

- Pour un montage ultérieur dans le profilé
- Pour charges légères et moyennes
- Montage aisé et rapide par 1/4 de tour
- Connexion bonne marché

#### Ausführung

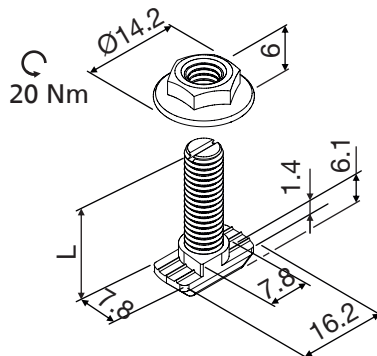
Stahl, verzinkt  
Festigkeitsklasse 8.8

#### Design

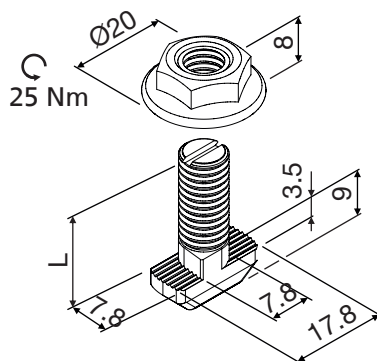
Galvanized steel  
Strength class 8.8

#### Matière

Acier zingué  
Classe de résistance 8.8



8E	8	M6x16	05.02140.00	VA
		M6x20	05.02141.00	05.02141.50
		M6x25	05.02142.00	05.02142.50



8	10	M8x15	05.01050.00	VA
		M8x20	05.01051.00	05.01051.50 *
		M8x25	05.01052.00	05.01052.50 *
		M8x30	05.01053.00	05.01053.50 *
		M8x40	05.01054.00	05.01054.50 *
		M8x50	05.01055.00	*Nur für Nut 10
		M8x60	05.01056.00	
		M8x80	05.01057.00	

Technische Änderungen vorbehalten



**Abdeckkappe für Flanschnut M8 - PE**  
Cap for flange nut M8 - PE  
Cache pour écrou M8 - PE

05.01059.00

**Flanschnut M6 - St, vz.**  
Flange nut M6 - steel, galvanized  
Ecrou M6 - acier, galvanisé

05.02237.00

**Flanschnut M8 - St, vz.**  
Flange nut M8 - steel, galvanized  
Ecrou M8 - acier, galvanisé

05.02238.00

# HAMMERMUTTER

## T-NUT

### ECROUS 1/4 DE TOUR



#### Innovative Vorteile

- Universell einsetzbarer Verbinder
- Einlegbar an beliebiger Stelle in Profilmutter
- Geriffelte Oberfläche zum Durchbrechen der Eloxalschicht

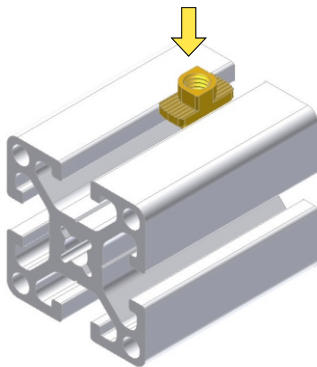
#### Innovative advantages

- Connector for universal applications
- Can be inserted at any point in profile groove
- Ribbed surface to break through the anodized layer

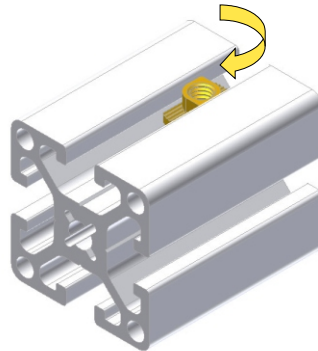
#### Atouts novateurs

- Éléments de jonction universels
- Positionnables quel que soit l'emplacement dans la rainure
- Assemblage conducteur

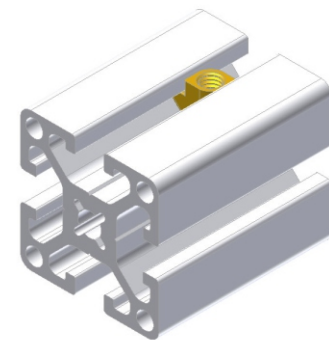
1. **... einschieben**  
push in  
insérer



2. **... verdrehen**  
twist  
tourner



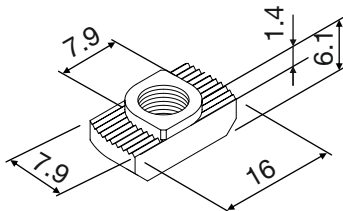
3. **... fertig!**  
finished  
terminé



3

8E

8K



30

M4



4 Nm

St, vz

05.01102.00

VA

M5

6 Nm

05.01103.00

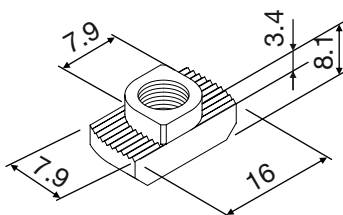
M6

10 Nm

05.01104.00

05.01104.50

8



40

M4



4 Nm

05.01660.00

M5

6 Nm

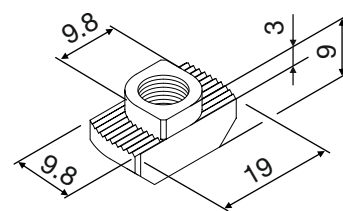
05.01661.00

M6

10 Nm

05.01662.00

10



45

M4



4 Nm

05.01138.00

M5

6 Nm

05.01105.00

M6

10 Nm

05.01106.00

05.01106.50

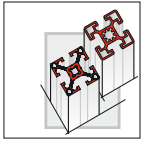
M8

25 Nm

05.01107.00

05.01107.50

Technische Änderungen vorbehalten



# VERBINDER CONNECTION JONCTION



## Gewindeplättchen 5

- Für leichte Belastungen
- Stirnseitig in Profil einlegbar

**Ausführung: Stahl vergütet**  
M4 = blau verzinkt  
M5 = schwarz verzinkt

## Threaded plate 5

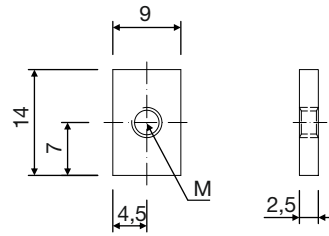
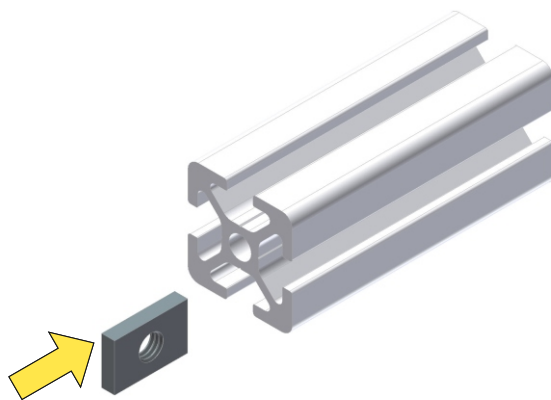
- For light loads
- Insertable in profile on front side

**Design: galvanized steel**  
M4 = blue galvanized  
M5 = black galvanized

## Ecrou plat 5

- Pour charges légères
- Insérable en bout de profilé

**Matière: Acier zingué**  
M4 = bleu zingué  
M5 = noir zingué



		⌚	St, vz.
	M4	3 Nm	05.01842.00
	M5	3 Nm	05.01843.00

## Einschiebemutter 5

- Für leichte Belastungen
- Stirnseitig in das Profil einlegbar

**Ausführung: Stahl vergütet**  
M4 = blau verzinkt  
M5 = schwarz verzinkt

## Insert nut 5

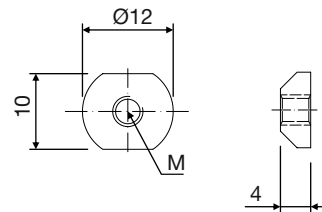
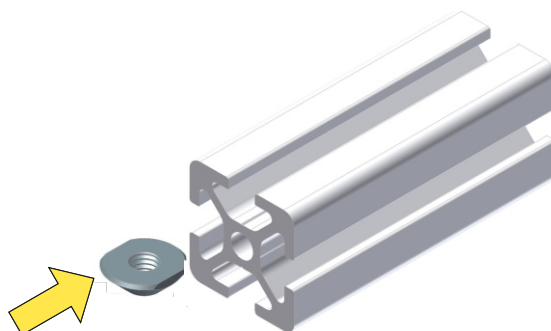
- For light loads
- Insertable in profile on front side

**Design: galvanized steel**  
M4 = blue galvanized  
M5 = black galvanized

## Ecrou demi-lune 5

- Pour charges légères
- Insérable en bout de profilé

**Matière: Acier zingué**  
M4 = bleu zingué  
M5 = noir zingué



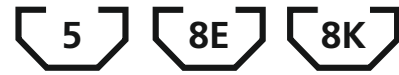
		⌚	St, vz.
	M4	3 Nm	05.01840.00
	M5	3 Nm	05.01841.00

Technische Änderungen vorbehalten

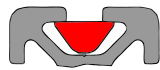
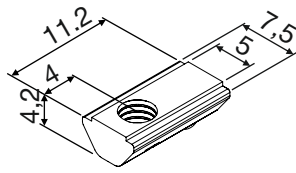
# NUTENSTEIN 20, 30

## SLIDING BLOCK 20, 30

### COULISSEAU 20, 30

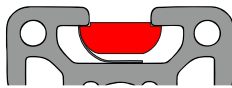
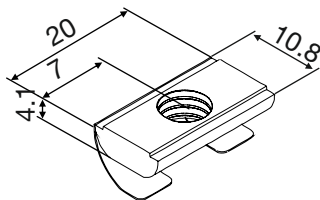


#### Nutenstein halbrund



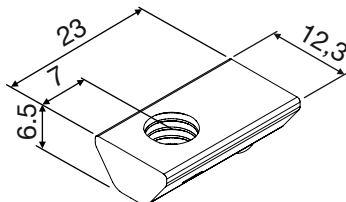
		St, vz	
5	M4	3 Nm	05.01655.00
	M5	4,5 Nm	05.01656.00

#### Nutenstein halbrund



		St, vz	
8K	M4	3 Nm	05.02423.00
	M5	6 Nm	05.02424.00
	M6	12 Nm	05.02425.00
	M8	23 Nm	05.02426.00

#### Nutenstein halbrund



		St, vz	
8E	M5	6 Nm	05.01872.00
	M6	12 Nm	05.01871.00
	M8	23 Nm	05.01870.00

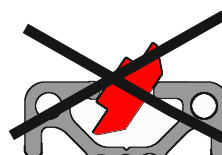
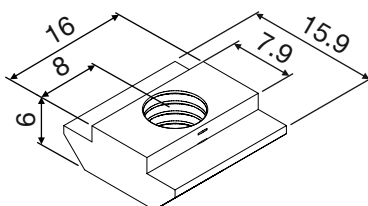
Nicht geeignet für Nut 8K

Not suitable for groove 8K

Ne convient pas pour la rainure 8K

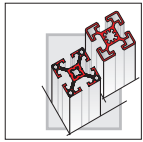


#### Nutenstein T-Form



		St, vz	
8E	M4	4 Nm	05.01472.10
	M5	8 Nm	05.01471.10
	M6	10 Nm	05.01470.10
	M8	30 Nm	05.01469.10

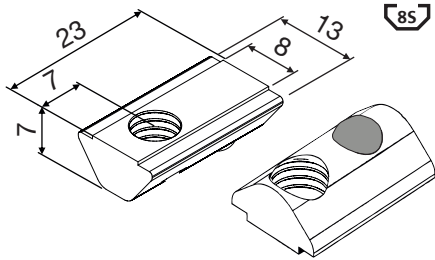
Technische Änderungen vorbehalten



# NUTENSTEIN 40 SLIDING BLOCK 40 COULISSEAU 40



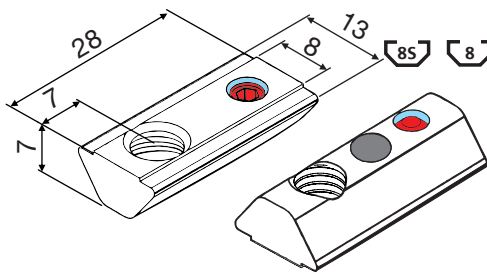
## Nutenstein halbrund



	St, vz	VA
M4	4 Nm 05.01063.00	
M5	8 Nm 05.01654.00	05.01654.50
M6	14 Nm 05.01653.00	05.01653.50
M8	25 Nm 05.01652.00	05.01652.50

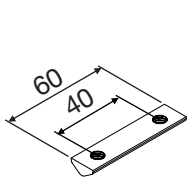
Nur stirnseitig einsetzbar  
Insertable on front side  
Insérable en bout de profilé

## Nutenstein halbrund mit Gewindestift



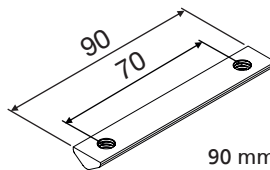
	St, vz
M5	8 Nm 05.02001.00
M6	14 Nm 05.02002.00
M8	25 Nm 05.02003.00

Nur stirnseitig einsetzbar  
Insertable on front side  
Insérable en bout de profilé



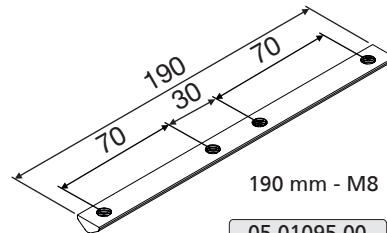
60 mm - M8

05.01093.00



90 mm - M8

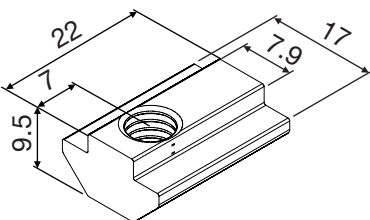
05.01094.00



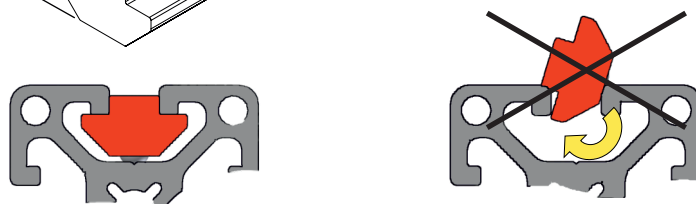
190 mm - M8

05.01095.00

## Nutenstein T-Form - schwer



	St, vz	VA
M5	8 Nm 05.01087.00	
M6	14 Nm 05.01088.00	
M8	34 Nm 05.01089.00	05.01089.50



Technische Änderungen vorbehalten



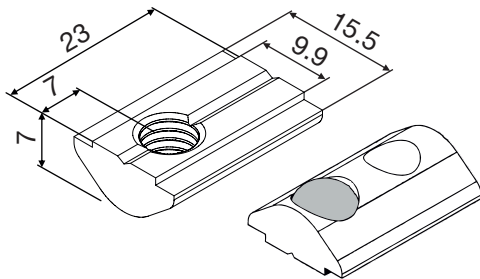
# NUTENSTEIN 45

## SLIDING BLOCK 45

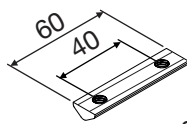
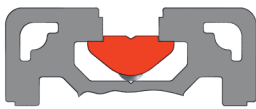
### COULISSEAU 45



#### Nutenstein halbrund

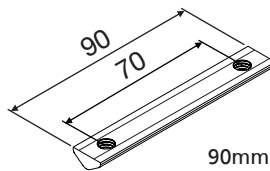


		⌚	St, vz	VA
	M5	10 Nm	05.01066.00	05.01066.50
	M6	16 Nm	05.01065.00	05.01065.50
	M8	28 Nm	05.01064.00	05.01064.50



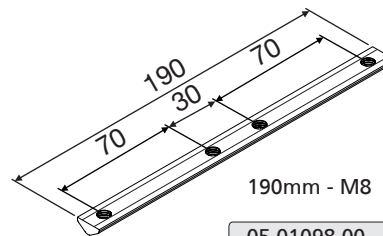
60mm - M8

05.01096.00



90mm - M8

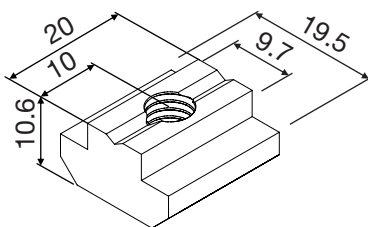
05.01097.00



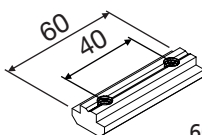
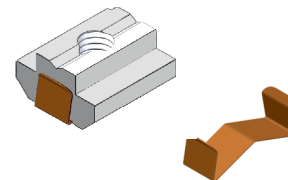
190mm - M8

05.01098.00

#### Nutenstein T-Form

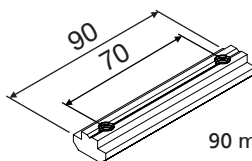


		⌚	St, vz	VA
	M5	12 Nm	05.01069.00	
	M6	21 Nm	05.01068.00	
	M8	42 Nm	05.01067.00	05.01067.50
	Feder • Spring • Ressort			05.01080.00



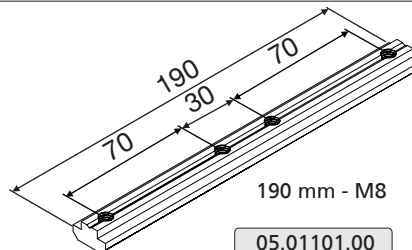
60 mm - M8

05.01099.00



90 mm - M8

05.01100.00

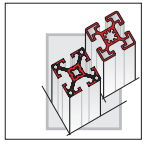


190 mm - M8

05.01101.00

Technische Änderungen vorbehalten





# VERBINDER CONNECTOR JONCTION



## Einschiebemutter

- Hoher Traganteil der Auflagefläche
- Durch Feder in der Nut fixiert
- Universelles Element für 3 Nut-Typen
- Stirnseitig in Profil einschiebbar

**Ausführung**  
Stahl, verzinkt

## Insert nut

- High bearing section of resting surface
- Fastened in slot by spring
- Universal element for 3 slot versions
- Push into profile from front

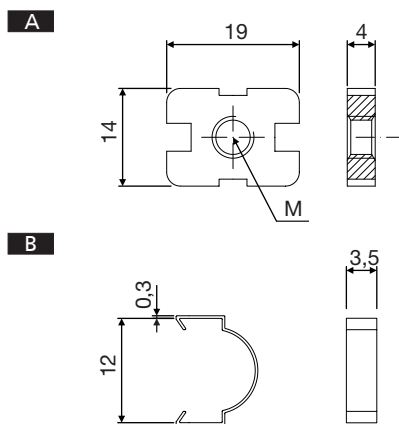
**Design**  
Steel, galvanized

## Ecrou plat

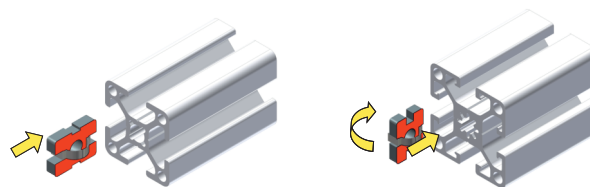
- Grande surface d'appui
- Fixation par ressort dans la rainure
- Élément universel pour 3 types de rainures
- Insérable en bout de profilé

**Matière**  
Acier zingué

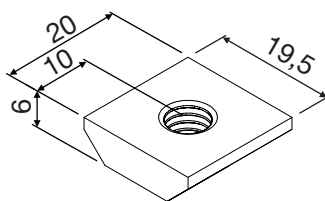
## Einschiebemutter



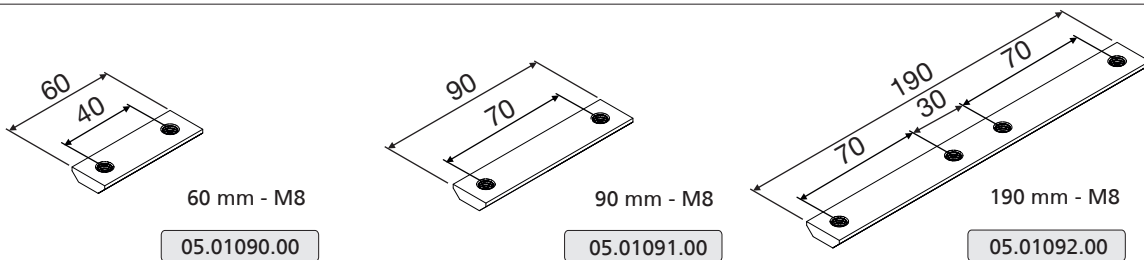
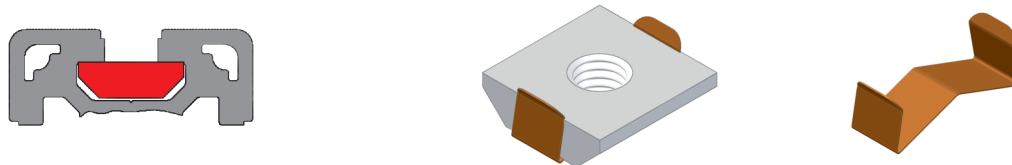
		⌚	A + B
8K 8E 8 10	M4	3 Nm	05.01885.00 05.01885.10
	M5	5 Nm	05.01886.00 05.01886.10
	M6	10 Nm	05.01887.00 05.01887.10
	M8	15 Nm	05.01888.00 05.01888.10
	Feder • Spring • Ressort		05.01889.00



## Nutenstein flach



		⌚	St, vz
8 10	M4	5 Nm	05.01221.00
	M5	10 Nm	05.01072.00
	M6	14 Nm	05.01071.00
	M8	26 Nm	05.01070.00
	Feder • Spring • Ressort		05.01080.00



Technische Änderungen vorbehalten

# GEWINDE THREAD TARAUDEE



## Gewindehülse SF

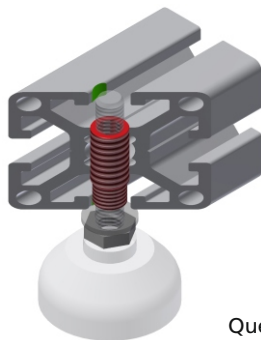
- Für alle Profile mit 10 mm Kernloch
- Kein Gewindeschneiden
- Die selbstfurchende Gewindeform "FM-Spezial" erleichtert das Eindrehen
- Selbstzentrierend durch Zentrierschaft
- Einfache Montage durch Inbus-schlüssel
- Innengewinde metrisch

## Threaded sleeve SF

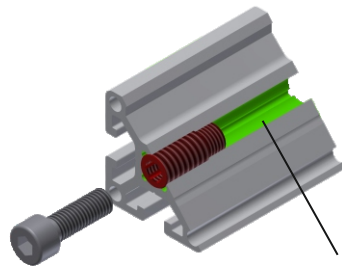
- For all profiles with a central bore of 10 mm
- No thread cutting
- Self-tapping thread "FM-Spezial" makes it easier to screw in
- Self-centring with centring shaft
- Allen key for easy fitting
- Metric inner thread

## Douilles-insert autotaraudeuses centres

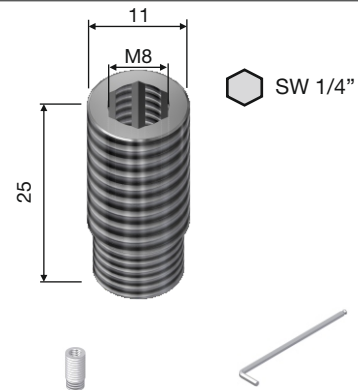
- Pour tous les profilés avec un trou central de 10 mm
- Taraudage superflu
- Vissage facile par vis autotaraudeuse à filetage spiralé "FM-Spezial" et enduction GleitMo
- Autocentrage par pion axial
- Montage aisé par clé 6 pans
- Taraudage métrique



Quer oder Stirnseitig einsetzbar



Kernloch Ø10



05.01369.00

05.01040.00

## Gewindeeinsätze

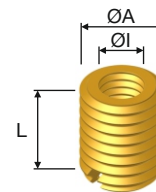
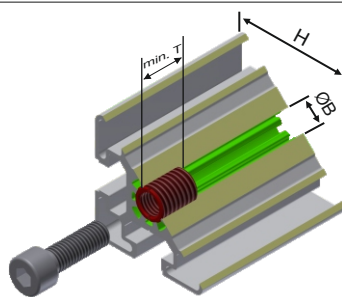
- Kein Gewindeschneiden
- Außengewinde metrisch
- Stahl, einsatzgehärtet, verzinkt

## Thread inserts

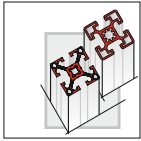
- No thread cutting
- Metric outer thread
- Steel, case hardened, galvanized

## Inserts taraudés

- Taraudage superflu
- Taraudage métrique
- Acier zingué



H	ØA	ØI	L	ØB	min.T		
	8	→ M5	10	7,5	13		
	10	→ M6	14	9,2	17		
	12	→ M8	15	11,2	19		
	14	→ M10	18	13,2	22		
	16	→ M12	22	15,2	27		



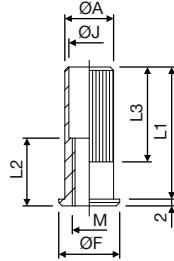
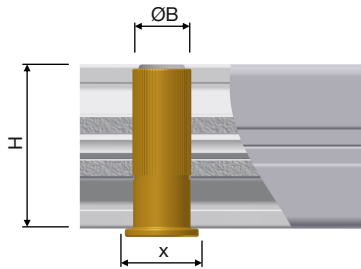
# VERBINDER CONNECTION JUNCTION



## Gewindehülse

## Threaded sleeve

## Douilles-insert canele



\* ohne Bund  
without collar  
sans epaulement

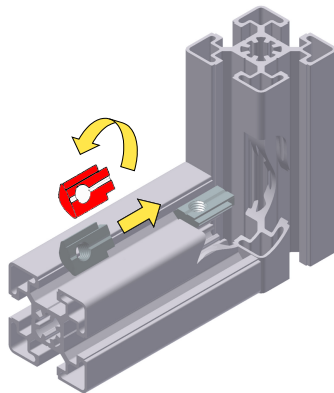
\*\*durchgehend  
continuous  
traversant

H	M	ØB	ØA	ØJ	ØF	L1	L2	L3	
30	M 8	11	11,3	9	15	29	15	16	05.01421.00
40	M10	14	14,4	12	18	39	20	26	05.01422.00
40	M12	14	14,4	13	18	39	20	26	05.01423.00
45	M12	17	17,4	13	20	44	20	32	05.01424.00
45	M16	20	20,4	17	-*	54	32	-**	05.01420.00

## Verdrehsicherung

## Non-twisting

## Ecrou antirotation



DIN 916

St, vz.

05.02271.00

DIN 916

St, vz.

05.02273.00

DIN 916

St, vz.

05.02275.00
















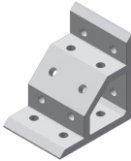
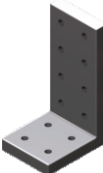






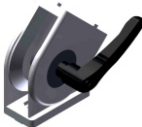
Technische Änderungen vorbehalten

# WINKEL UND GELENKE

## BRACKETS AND JOINTS

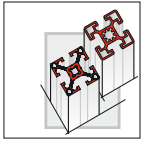
### EQUERRES ET ARTICULATIONS



			
■ 4.02	■ 4.02	■ 4.03	■ 4.03
			
■ 4.03	■ 4.04	■ 4.04	■ 4.04
			
■ 4.05	■ 4.06	■ 4.06	■ 4.06
			
■ 4.07	■ 4.07	■ 4.08	■ 4.08
			
■ 4.09	■ 4.10	■ 4.11	■ 4.12
			
■ 4.12	■ 4.12	■ 4.13	■ 4.13

4

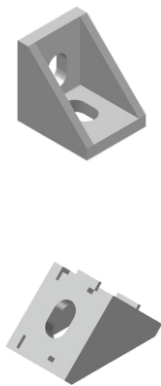
Technische Änderungen vorbehalten



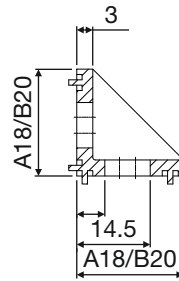
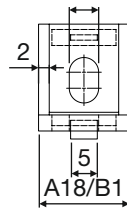
# WINKEL 20, 30 BRACKETS 20, 30 EQUERRES 20, 30



## 18x18x18 A



## 20x20x17 B



**A** 05.01222.00

**B** 05.01256.00



**A** 05.01222.05

**B** 05.01256.05



**A** 05.01285.00

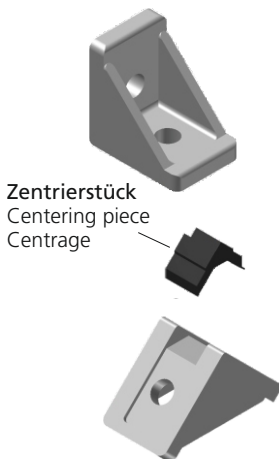
**B** 05.01145.00



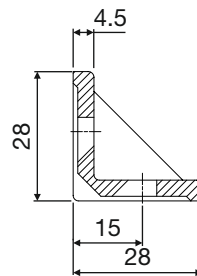
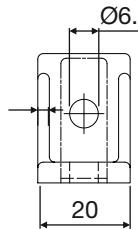
**A** 05.01222.10

**B** 05.01256.10

## 20x28x28



Zentrierstück  
Centering piece  
Centrage



05.01255.00



05.01255.20



05.01255.05



05.01255.05



05.01255.10



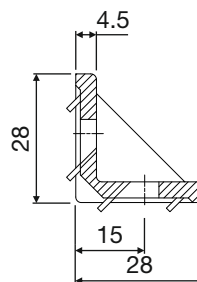
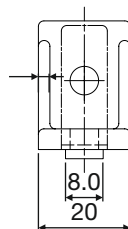
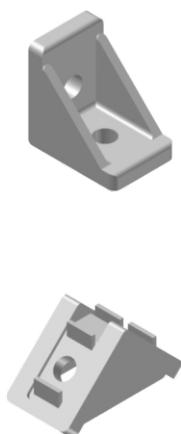
05.01255.15



05.01255.25

## 20x28x28 mit Zentrierfahnen

With centering lugs · Avec ergots de centrage



05.01257.00



05.01257.05



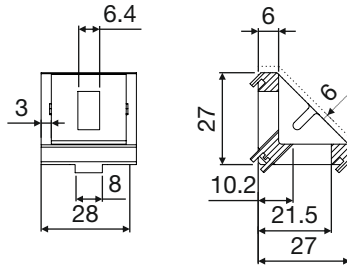
05.01257.10

Technische Änderungen vorbehalten

**WINKEL 30, 40**  
**BRACKETS 30, 40**  
**EQUERRES 30, 40**



**28x27x27**



05.01108.00

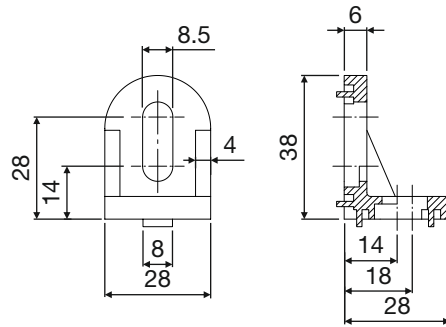


05.01109.00



05.01108.05

**R 28x38**

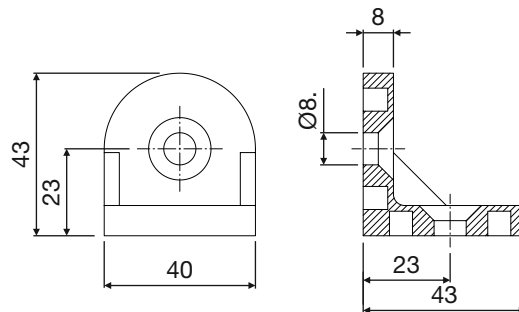


05.01129.00



05.01129.05

**R 40x43**



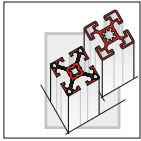
05.01085.00



05.01085.05



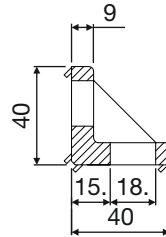
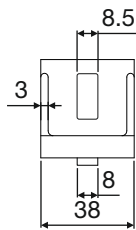
05.01085.10



**WINKEL 40**  
**BRACKETS 40**  
**EQUERRES 40**



**38x40x40**

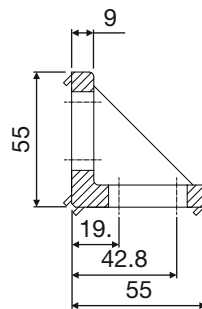
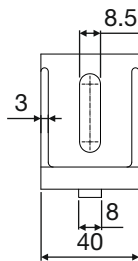


05.01250.00



05.01250.05

**40x55x55**

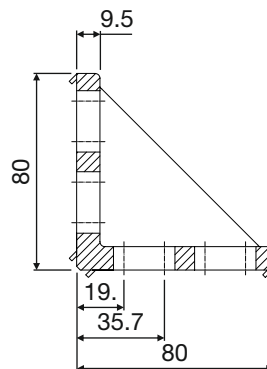
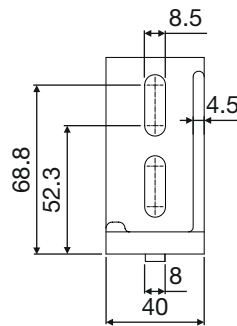


05.01251.00



05.01251.05

**40x80x80**



05.01252.00



05.01252.05

Technische Änderungen vorbehalten



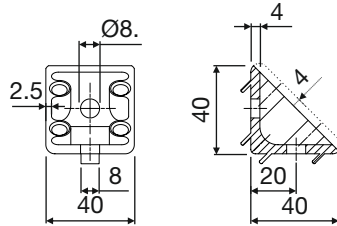
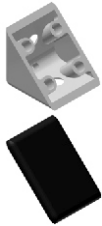
# WINKEL MIT ABDECKKAPPE

## BRACKETS WITH CAP

### EQUERRES AVEC CACHE



**40x40x40**



**05.01980.00**

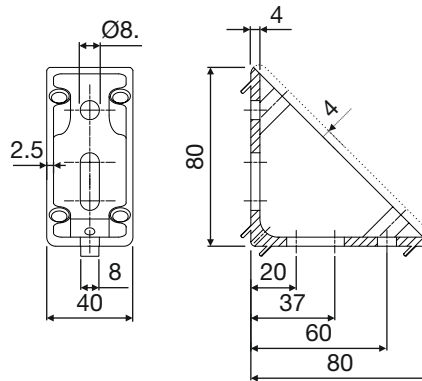
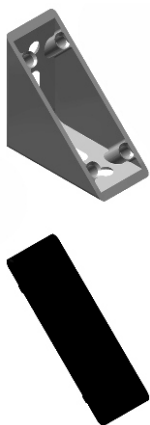


**05.01985.00**



**05.01980.05**

**40x80x80**



**05.01981.00**

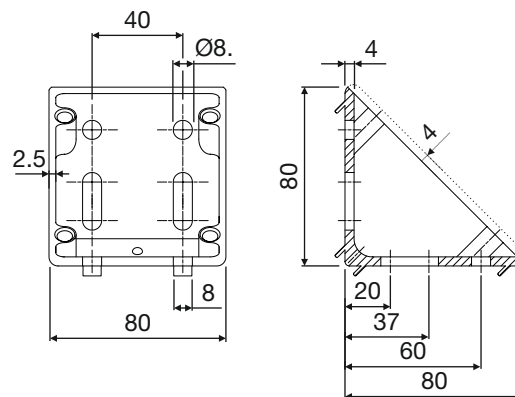
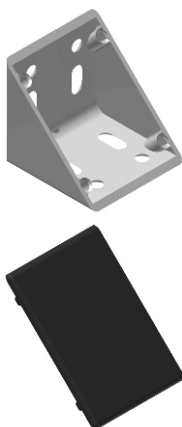


**05.01986.00**



**05.01981.05**

**80x80x80**



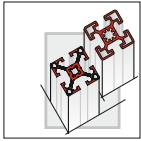
**05.01982.00**



**05.01987.00**



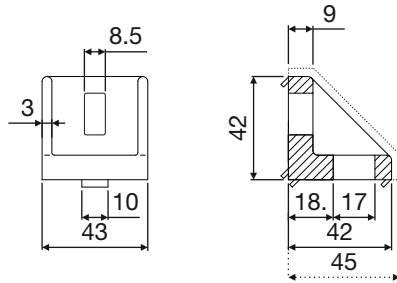
**05.01982.05**



**WINKEL 45**  
BRACKETS 45  
EQUERRES 45



**43x42x42**



05.01144.00



05.01144.05

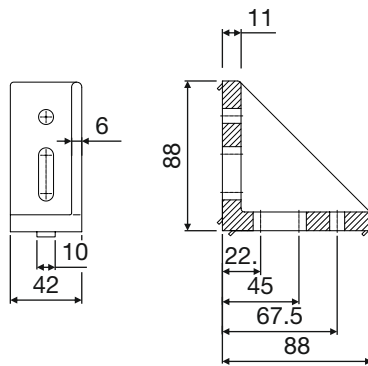
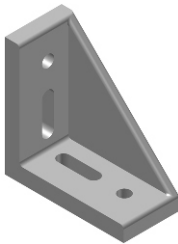


05.01140.00



05.01144.10

**42x88x88**

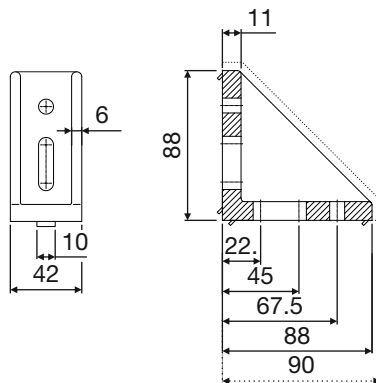
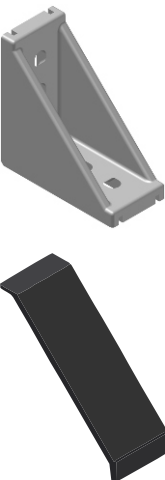


05.01152.00



05.01152.05

**42x88x88 2-stegig**



05.01142.00



05.01142.05



05.01143.00



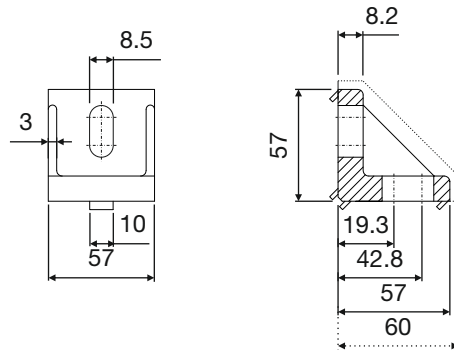
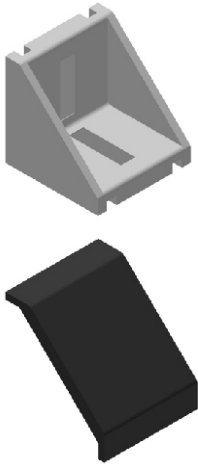
05.01142.10

Technische Änderungen vorbehalten

**WINKEL 45**  
BRACKETS 45  
EQUERRES 45



**57x57x57**



05.01148.00



05.01148.05



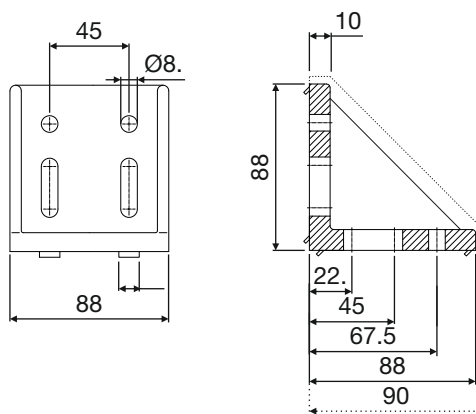
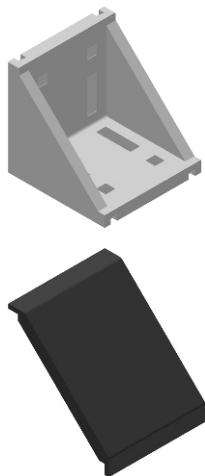
05.01141.00



05.01148.10

4

**88x88x88**



05.01153.00



05.01153.05

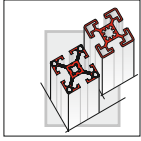


05.01139.00



05.01153.10

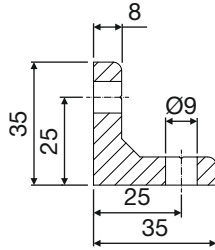
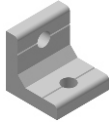
Technische Änderungen vorbehalten



**ALUWINKEL**  
ALUBRACKET  
EQUERRE DE ALU



**35x35**



**A**

05.01157.00

**B**

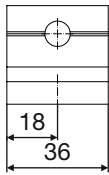
05.01158.00

**C**

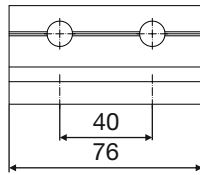
05.01159.00



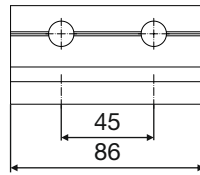
**A**



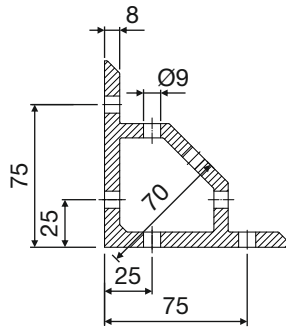
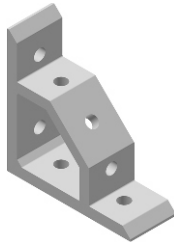
**B**



**C**



**98x98**



**A**

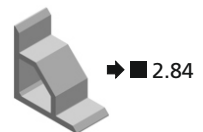
05.01155.00

**B**

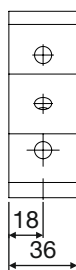
05.01156.00

**C**

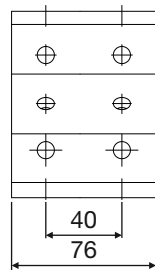
05.01239.00



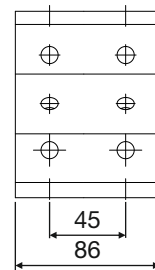
**A**



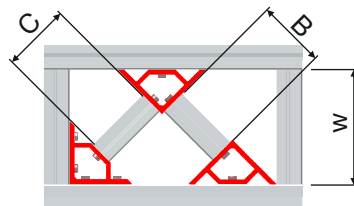
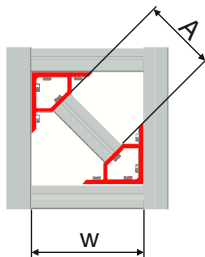
**B**



**C**



Technische Änderungen vorbehalten



Ermittlung der Strebenlänge:

Determination of the prop length:

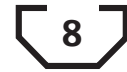
Détermination longueur de jambe:

$$A = \sqrt{2W^2} - 140$$

$$B = \sqrt{2W^2} - 148$$

$$C = \sqrt{2W^2} - 148$$

**ANSCHRAUBWINKEL / WINKELKONSOLE**  
**SCREW-ON ANGLE / ANGLE CONSOLE**  
**CONSOLE D'ANGLE**

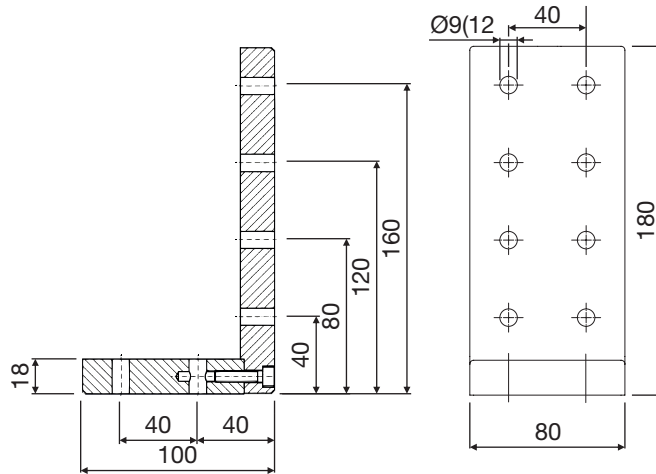
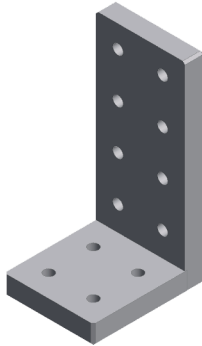


**Winkelkonsole 80x180**

Angle console · Console d'angle

Alu

05.02252.10

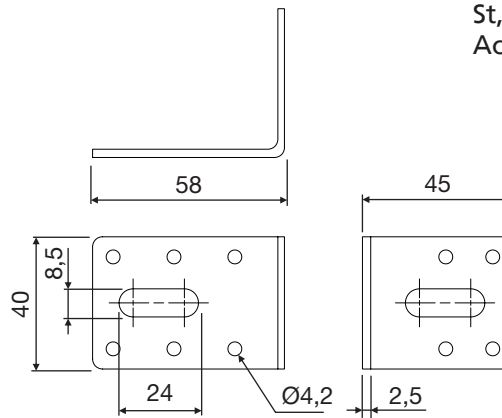
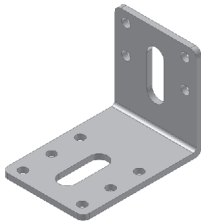


**Anschraubwinkel 58x40**

Screw-on angle · Angle de vissage

St, vz.  
 St, galv.  
 Ac, zing.

05.01163.00

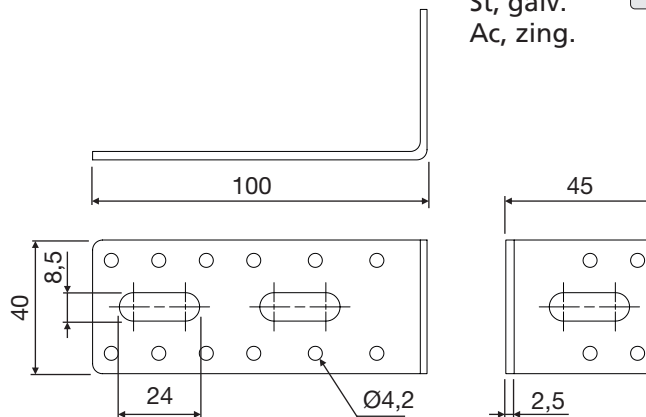
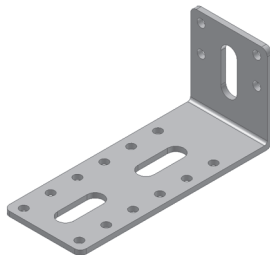


**Anschraubwinkel 100x40**

Screw-on angle · Angle de vissage

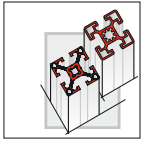
St, vz.  
 St, galv.  
 Ac, zing.

05.01164.00



Technische Änderungen vorbehalten





# WINKELVERBINDERELEMENT-2

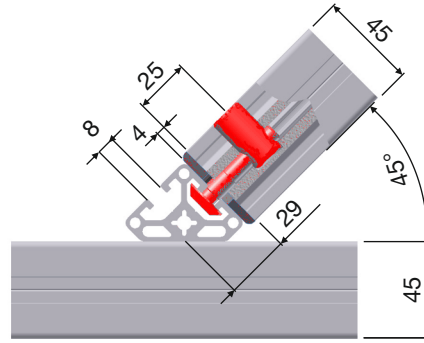
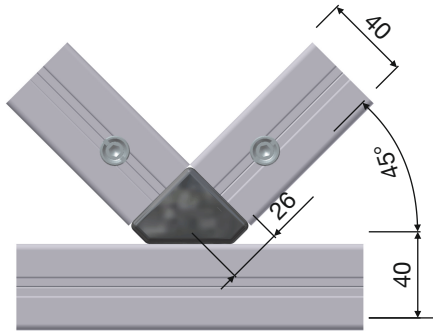
## ANGLE ELEMENT-2

### ELEMENTS D'ANGLE-2

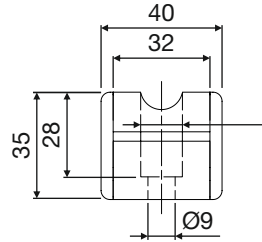


**8** Beidseitige Anwendung möglich  
 Reciprocal application possible  
 Application mutuelle possible

**10** Nur einseitige Anwendung möglich  
 Only one-sided application possible  
 Application seulement unilatérale possible



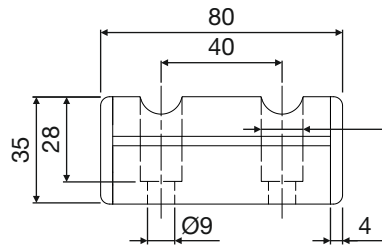
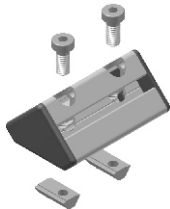
**8/40-2**



**8** 05.01574.00

- 1x
- 2x
- 1x
- 1x

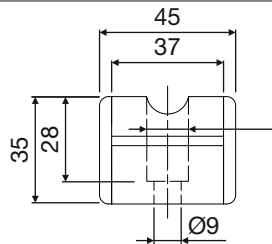
**8/80-2**



**8** 05.01575.00

- 1x
- 2x
- 2x
- 2x

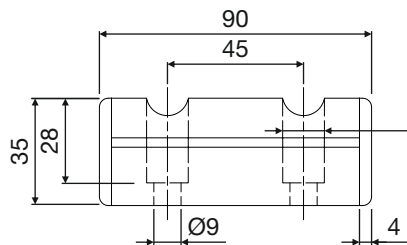
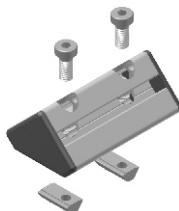
**10/45-2**



**10** 05.01576.00

- 1x
- 2x
- 1x
- 1x

**10/90-2**



**10** 05.01577.00

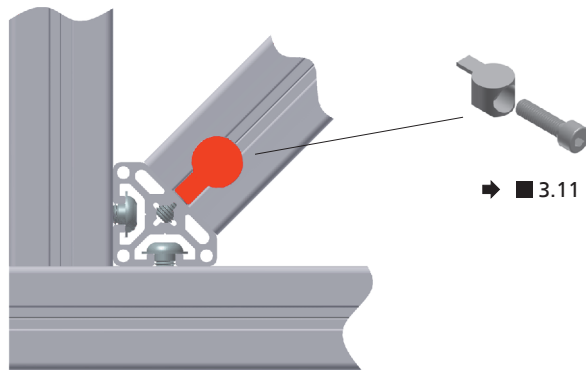
- 1x
- 2x
- 2x
- 2x

Technische Änderungen vorbehalten

# WINKELVERBINDERELEMENT-1

## ANGLE ELEMENT-1

### ELEMENTS D'ANGLE-1



Die Querstrebe wird durch zwei UNI-Verbinder (Zentrierfahnen abgebrochen) befestigt.


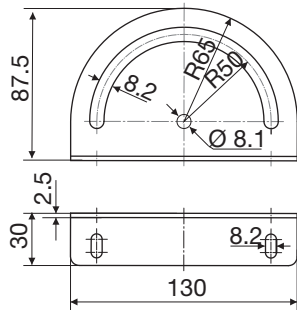
The cross-struts are fastened in place by two UNI connectors (centering lugs broken off).

La traverse est fixée par deux fixations UNI.

4

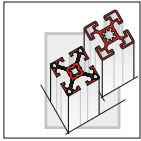
<b>8/40-1</b>		<b>05.01578.00</b>	<ul style="list-style-type: none"> <li>1x </li> <li>2x </li> <li>2x </li> <li>2x </li> </ul>
<b>8/80-1</b>		<b>05.01579.00</b>	<ul style="list-style-type: none"> <li>1x </li> <li>2x </li> <li>4x </li> <li>4x </li> </ul>

**Schwenkwinkel 180°**  
 Pivot angle 180° · Angle de pivotement 180° vissage

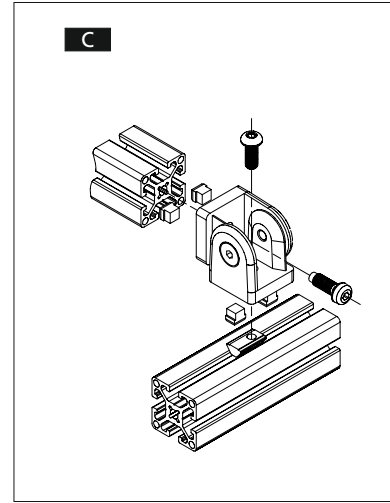
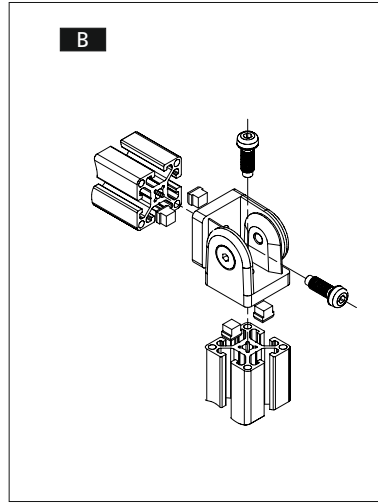
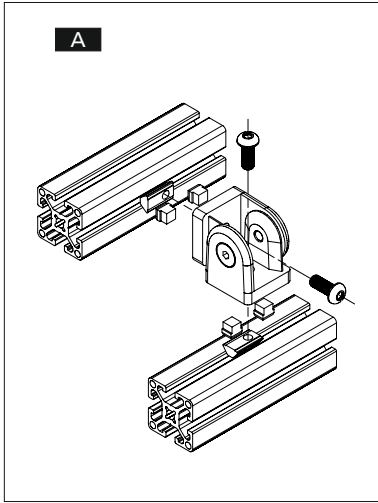



**05.01258.00**

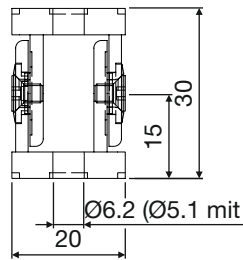
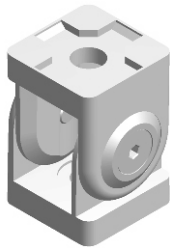
Technische Änderungen vorbehalten



**GELENKE**  
JOINTS  
ARTICULATIONS



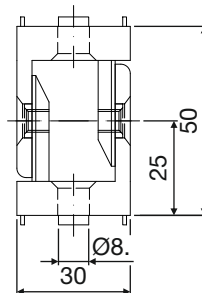
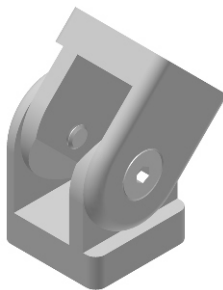
**20x20**



	<b>05.01558.00</b>
<b>A</b>	<b>05.01558.05</b>
<b>B</b>	<b>05.01558.06</b>
<b>C</b>	<b>05.01558.07</b>
<b>Universal</b>	<b>05.01558.20</b>

+	<b>05.01558.50</b>
---	--------------------

**30x30**



	<b>05.01855.00</b>
<b>A</b>	<b>05.01855.05</b>
<b>B</b>	<b>05.01855.06</b>
<b>C</b>	<b>05.01855.07</b>
<b>Universal</b>	<b>05.01855.20</b>

	<b>05.01852.00</b>
<b>Universal</b>	<b>05.01852.20</b>

+	<b>05.01855.50</b>
+	<b>05.01852.50</b>

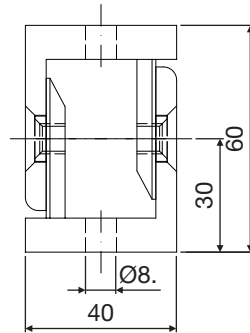
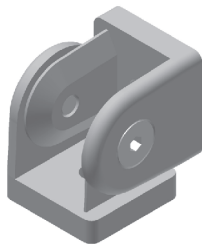
Technische Änderungen vorbehalten



# GELENKE JOINTS ARTICULATIONS

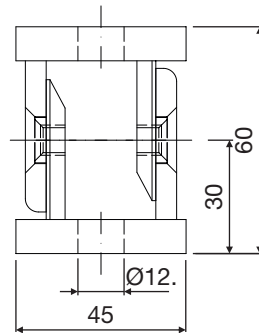
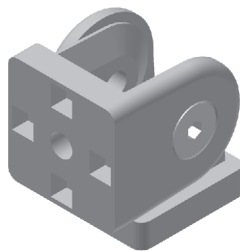


## 40x40



	05.01856.00
<b>A</b>	05.01856.05
<b>B</b>	05.01856.06
<b>C</b>	05.01856.07
<b>Universal</b>	05.01856.20
	05.01853.00
<b>Universal</b>	05.01853.20
+	05.01856.50
+	05.01853.50

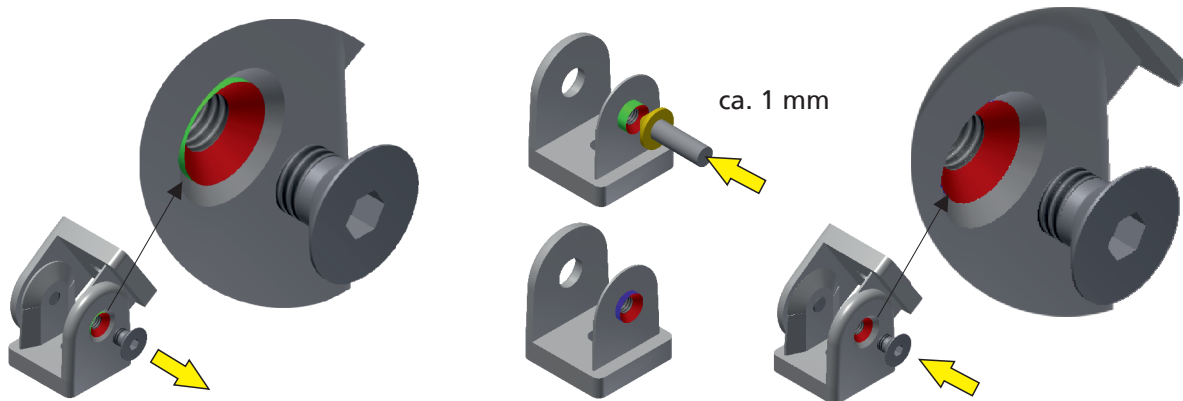
## 45x45



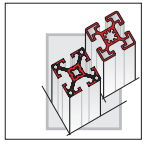
	05.01857.00
<b>A</b>	05.01857.05
<b>B</b>	05.01857.06
<b>C</b>	05.01857.07
<b>Universal</b>	05.01857.20
	05.01854.00
<b>Universal</b>	05.01854.20
+	05.01857.50
+	05.01854.50

### Feststellen der Gelenke 30, 40 und 45

Um Gelenke feststellen zu können, müssen Sie die innenliegende Senkung (rot), um ca. 1 mm mit einem Kegelsenker nachsenken. Erst dann kann die Schraube, die beiden Gelenkhälften zusammenklemmen.



Technische Änderungen vorbehalten



# WINKEL UND GELENKE BRACKETS AND JOINTS EQUERRES ET ARTICULATIONS



### Innovative Vorteile:

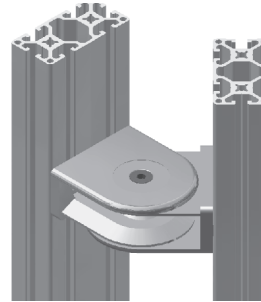
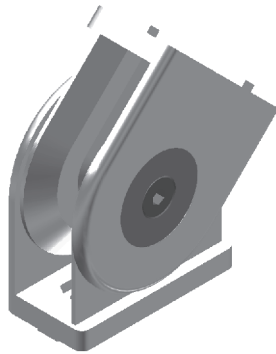
- Mit einstellbarer Friktion zur stufenlosen Regulierung des Reibungswiderstandes bzw. zur Fixierung in einer definierten Position

### Innovative advantages:

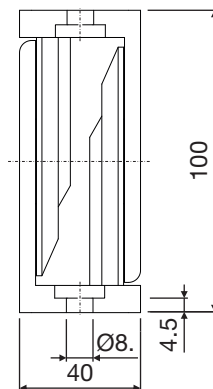
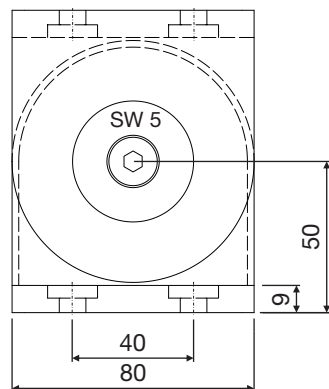
- With adjustable friction for step-free regulation of frictional resistance or to fasten in a specific position

### Atouts novateur:

- Avec friction réglable, permettant la régulation progressive de la résistance à la friction ou pour la fixation à une position définie



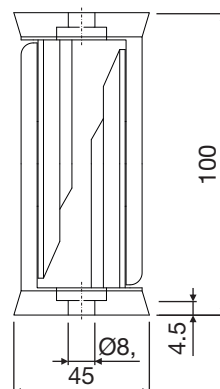
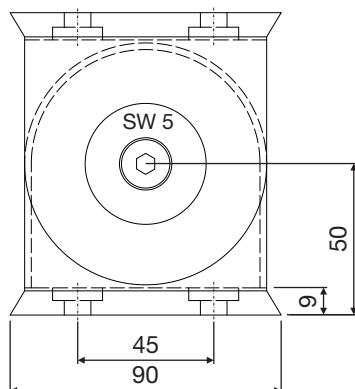
**40x80**



	<b>05.01564.00</b>
<b>A</b>	<b>05.01564.05</b>
<b>B</b>	<b>05.01564.06</b>
<b>C</b>	<b>05.01564.07</b>

+	<b>05.01564.50</b>
---	--------------------

**45x90**



	<b>05.01565.00</b>
<b>A</b>	<b>05.01565.05</b>
<b>B</b>	<b>05.01565.06</b>
<b>C</b>	<b>05.01565.07</b>

+	<b>05.01565.50</b>
---	--------------------

Technische Änderungen vorbehalten

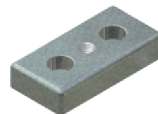
**RÄDER, FÜSSE, PLATTEN**  
WHEELS, FEETS, PLATES  
ROUES, PIEDS, EMBASES



■ 5.02



■ 5.04



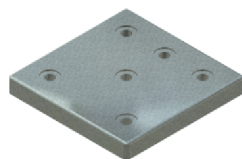
■ 5.06



■ 5.08



■ 5.10



■ 5.12



■ 5.13



■ 5.13



■ 5.14



■ 5.17

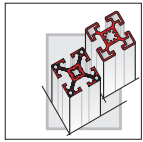


■ 5.18



■ 5.20

5



**GEWINDEFÜSSE MIT KUNSTSTOFFTELLER**  
**THREADED FEET WITH PLASTIC PLATE**  
**PIEDS FILETÉS AVEC EMBASE POLYAMIDE**



**Ø30**

M8 x 69
05.01480.00
M8 x 109
05.01481.00
M10 x 74
05.01482.00
M10 x 119
05.01483.00

**Ø40/Ø45**

M8 x 69
Ø40 05.01484.00
M8 x 109
Ø40 05.01485.00
M10 x 74
Ø40 05.01486.00
M10 x 119
Ø40 05.01487.00
M8 x 30
Ø45 05.01208.00
M10 x 30
Ø45 05.01209.00
M12 x 95
Ø40 05.01488.00
M12 x 129
Ø40 05.01489.00

**Ø58**

M12 x 95
05.01490.00
M12 x 129
05.01491.00
M16 x 95
05.01492.00
M16 x 129
05.01493.00

**Ø80**

M12 x 95
05.01625.00
M12 x 129
05.01626.00
M16 x 95
05.01627.00
M16 x 129
05.01628.00

**GewindefüÙe mit Kunststoffteller**  
**Threaded feet with plastic plate**  
**Pieds filetés avec embase polyamide**

- Ausführungen**  
 Teller PA, schwarz  
 Gewindespindel Stahl, verzinkt
- Designs**  
 Plate PA, black  
 Threaded spindle steel, galvanized
- Matières**  
 Embase PA, noir  
 Tige acier, zingué

**F<sub>max</sub> ↓**

M8 = 4000 N
M10 = 6000 N
M12 = 8000 N
M16 = 10000 N

**Dämpfungsring**  
**Damper ring**  
**Semelle caoutchouc**

Ø30 05.01480.90
Ø40 05.01484.90
Ø58 05.01490.90
Ø80 05.01625.90

Neigung bis zu 15° möglich  
 Angles up to 15° possible  
 Inclinaison max. 15°

Technische Änderungen vorbehalten

# GEWINDEFÜSSE MIT STAHLTELLER THREADED FEET WITH STEEL PLATE PIEDS FILETÉS AVEC EMBASE ACIER



**Ø30**

M8 x 65

**A** 05.01450.00

**Ø44**

M12 x 85

**A** 05.01204.00

**B** 05.01452.00

M12 x 145

**A** 05.01205.00

**B** 05.01453.00

M16 x 85

**A** 05.01235.00

**B** 05.01237.00

M16 x 145

**A** 05.01236.00

**B** 05.01238.00

**Ø58**

M12 x 85

**A** 05.01454.00

**B** 05.01458.00

M12 x 145

**A** 05.01455.00

**B** 05.01459.00

M16 x 85

**A** 05.01456.00

**B** 05.01460.00

M16 x 145

**A** 05.01457.00

**B** 05.01461.00

**Ø90**

M16 x 85

**A** 05.01206.00

**B** 05.01462.00

M16 x 145

**A** 05.01207.00

**B** 05.01463.00

**GewindefüÙe mit Stahlteiler**  
**Threaded feet with steel plate**  
**Pieds filetés avec embase acier**

- Ausführungen**
  - Teller **A** Stahl, verzinkt
  - B** Stahl, schwarz beschichtet
  - Gewindespindel Stahl verzinkt
- Designs**

**F<sub>max</sub>** ↓

  - Plate **A** steel, galvanized M8 = 5000N
  - B** steel, black coated M10 = 8000N
  - Threaded spindle steel, galvanized M12 = 10000N
  - M16 = 20000N
- Matières**
  - Embase **A** acier, zingué
  - B** acier, peinture noire
  - Tige acier, zingué

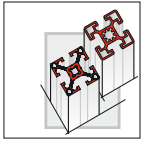
**Dämpfungsring**  
**Damper ring**  
**Semelle PU**

**Ø44** 05.01465.00

**Ø58** 05.01466.00

**Ø90** 05.01467.00

Technische Änderungen vorbehalten



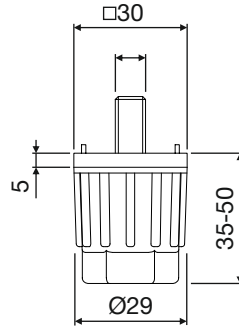
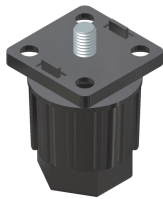
# HÖHENVERSTELLER HEIGHT ADJUSTER PIEDS VERINS



30

8E

1500N  
F<sub>max</sub> ↓



A



05.01468.00

B

8E



1x

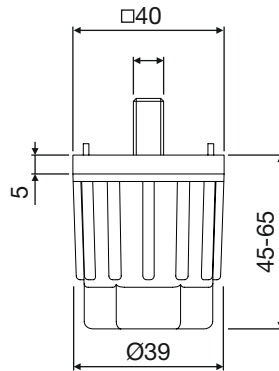
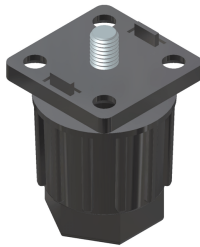
05.01870.00

PA 6  
schwarz  
black  
noir

40

8

1500N  
F<sub>max</sub> ↓



A



05.01464.00

B

8



1x

05.01652.00

PA 6  
schwarz  
black  
noir

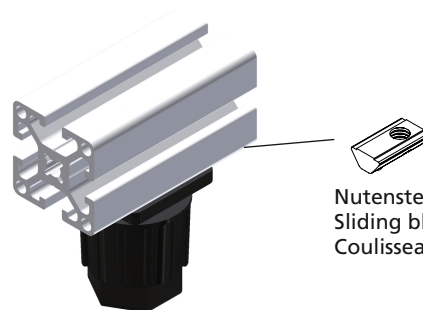
**Anbau an Profilstirnseite**  
Connection on profile front side  
Montage en bout de profilé

A



**Anbau an Profilnut**  
Connection to profile slot  
Montage parallèle

B



Nutenstein  
Sliding block  
Coulisseau

# RÄDER, FÜSSE, PLATTEN WHEELS, FEET, PLATES ROUES, PIEDS, EMBASES

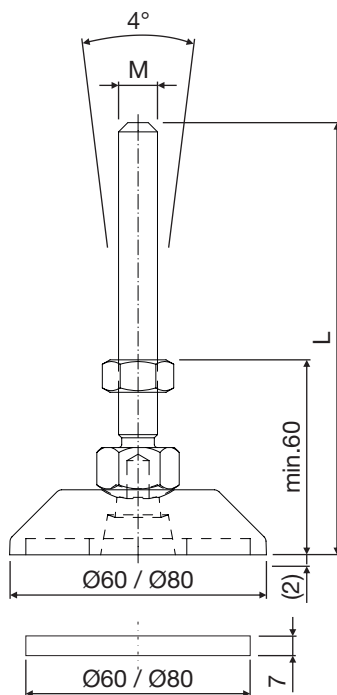


## Gewindefuß mit Trapezsteller

Threaded connector · Pieds atriculés

Ø 60: 25 kN  
Ø 80: 30 kN

**F<sub>max</sub>** ↓



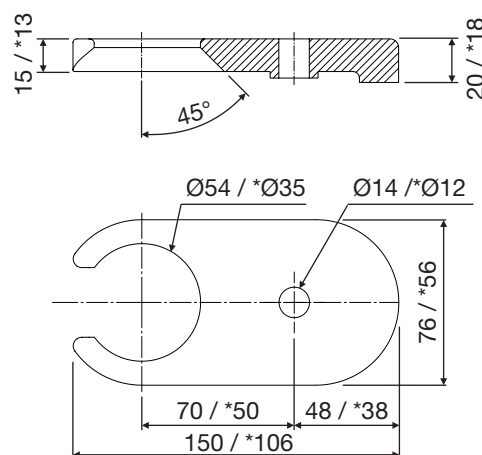
- **Ausführung**  
Teller: Zinkdruckguss, schwarz beschichtet  
Gewindespindel: Stahl, verzinkt; (VA)
- **Design**  
Plate: Die-cast zinc, Black powder coated  
Threaded spindle: steel, galvanized; (VA)
- **Matière**  
Embase: Zamak, revêtu par poudre noir  
Tige: acier, zingué; (VA)

Ø60	M12 x 86 05.02379.00	Ø80	M12 x 130 05.02381.00
	M12 x 120 05.02380.00		M12 x 160 05.02382.00
			M16 x 130 05.02383.00
			M16 x 130 (VA) 05.02383.50
	Dämpfungsring Damping ring Bague d'amortissement		M16 x 160 05.02384.00
Ø60	05.02379.90		M16 x 230 05.02385.00
Ø80	05.02381.90		

5

## Klemmlasche für Kunststoff- und Trapezsteller

Clamping strap · Fixation au sol



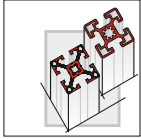
Gd-Zn

schwarz  
black  
noir

Ø 60\* 05.01346.00

Ø 80 05.01347.00

Technische Änderungen vorbehalten



# TRANSPORT- UND FUSSPLATTEN

## TRANSPORT AND BASE PLATES

### EMBASES D'EXTREMITE



**20x40**

Profil stirnseitig  
 Profile frontal  
 Profil de la facade

	M5x20 (2x)		
	ISO 4762		
	M5x8 (2x)		
	ISO 4762		
	Nutenstein		
	5 M5 (2x)	M8	St, vz. <b>05.01826.00</b>

**40x40**

Profil stirnseitig  
 Profile frontal  
 Profil de la facade

	M5x20 (4x)		
	ISO 4762	M8	St, vz. <b>05.01827.00</b>
	M5x10 (4x)		
	ISO 4762	M10	<b>05.01828.00</b>
	Nutenstein		
	5 M5 (4x)		

**30x60**

Profil stirnseitig  
 Profile frontal  
 Profil de la facade

	M8x20 (2x)		
	ISO 4762	M8	St, vz. <b>05.01844.00</b>
	M8x16 (2x)		
	ISO 4762	M10	<b>05.01845.00</b>
	Nutenstein		
	8E M8 (2x)	M12	<b>05.01846.00</b>

**60x60**

Profil stirnseitig  
 Profile frontal  
 Profil de la facade

	M8x20 (4x)		
	ISO 4762	M8	St, vz. <b>05.01695.00*</b>
	M8x16 (4x)		
	ISO 4762	M10	<b>05.01696.00*</b>
	Nutenstein		
	8E M8 (4x)	M12	<b>05.01697.00*</b>

**40x80**

Profil stirnseitig  
 Profile frontal  
 Profil de la facade

	M8x20 (2x)		
	ISO 4762	M10	GD-Zn <b>05.01225.00</b>
	M8x16 (2x)		
	ISO 4762	M12	<b>05.01226.00</b>
	Nutenstein		
	8E M8 (2x)	M16	<b>05.01227.00</b>

**80x80**

Profil stirnseitig  
 Profile frontal  
 Profil de la facade

	M8x20 (4x)		
	ISO 4762	M10	GD-Zn <b>05.01228.00</b>
	M8x10 (4x)		
	ISO 4762	M12	<b>05.01229.00</b>
	Nutenstein		
	8E M8 (4x)	M16	<b>05.01230.00</b>

Technische Änderungen vorbehalten

\* auf Anfrage • on request • sur demande



# TRANSPORT- UND FUSSPLATTEN TRANSPORT AND BASE PLATES EMBASES D'EXTREMITE



**45x90**

Profil stirnseitig - M12x40 (2x)  
 Profile frontal ISO 4762  
 Profil de la facade  
 - M8x16 (2x) GD-Zn  
 - Nutenstein M10 **05.01294.00**  
 Profile groove 10 M8 (2x) M12 **05.01295.00**  
 Rainure de profil - Scheibe ISO 7090 Ø8,4 (2x) M16 **05.01296.00**

**90x90**

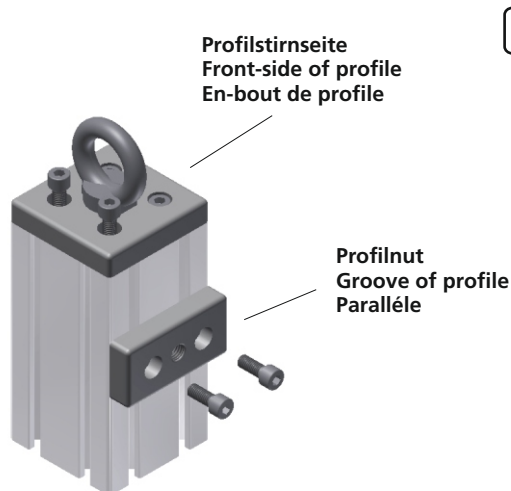
Profil stirnseitig - M12x40 (2x)  
 Profile frontal ISO 4762  
 Profil de la facade ISO 4762  
 - M8x16 (4x) GD-Zn  
 - Nutenstein M10 **05.01297.00**  
 Profile groove 10 M8 (4x) M12 **05.01298.00**  
 Rainure de profil - Scheibe ISO 7090 Ø8,4 (4x) M16 **05.01299.00**

**50x100**

Profil stirnseitig - M12x40 (2x)  
 Profile frontal ISO 4762  
 Profil de la facade  
 - M8x16 (2x) St, vz.  
 - Nutenstein M12 **05.01685.00**  
 Profile groove 10 M8 (2x) M12 **05.01686.00**  
 Rainure de profil - Scheibe ISO 7090 Ø8,4 (2x) M16

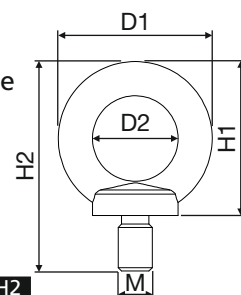
**100x100**

Profil stirnseitig - M12x40 (2x)  
 Profile frontal ISO 4762  
 Profil de la facade  
 - M8x16 (4x) St, vz.  
 - Nutenstein M12 **05.01687.00**  
 Profile groove 10 M8 (4x) M12 **05.01688.00**  
 Rainure de profil - Scheibe ISO 7090 Ø8,4 (4x) M16



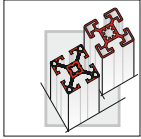
## Ringschrauben

Ring bolt · Vis à anneau de levage



M	D1	D2	H1	H2	
M 8	Ø36	Ø20	36	9	<b>05.01446.00</b>
M10	Ø45	Ø25	45	62	<b>05.01447.00</b>
M12	Ø54	Ø30	53	73.5	<b>05.01448.00</b>
M16	Ø63	Ø35	62	89	<b>05.01449.00</b>

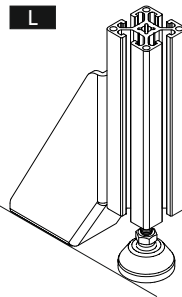
Technische Änderungen vorbehalten



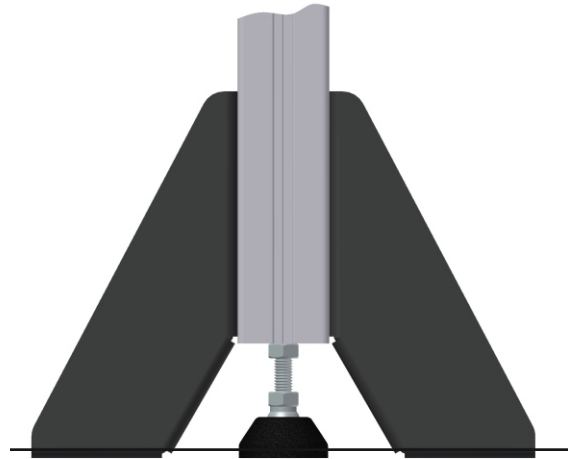
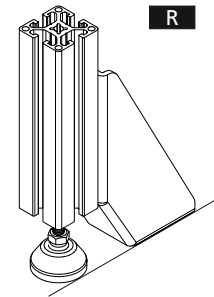
**FUNDAMENTWINKEL**  
**FOUNDATION BRACKET**  
**EQUERRES D'ANCRAGE AU SOL**





Ausführung links  
 Design left  
 Version gauche






Ausführung rechts  
 Design right  
 Version droite

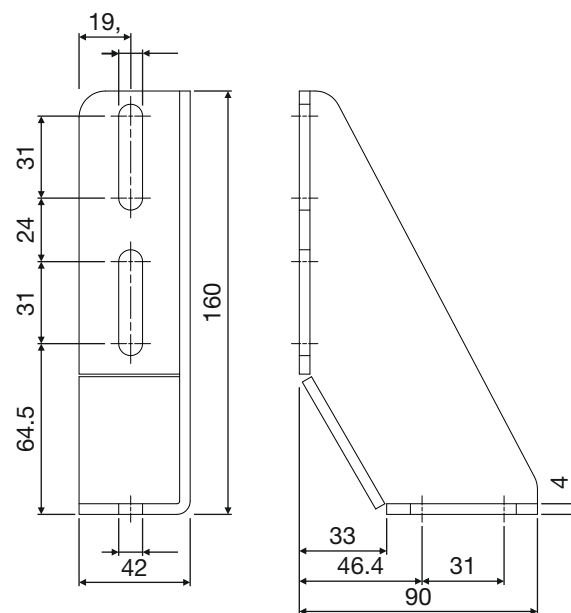




Stahl, schwarz beschichtet  
 Steel, black coated  
 Acier, peinture noire

 Befestigung mit  
 Hammerschrauben  
 Fastened with  
 hammerhead screws  
 Fixation par vis 1/4  
 de tour

 Fundamentschraube  
 separat bestellen  
 Foundation screw  
 order separately  
 Cheville d'ancrage  
 commander séparément

**160**



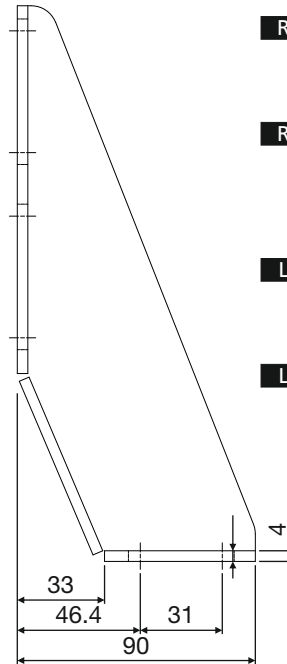
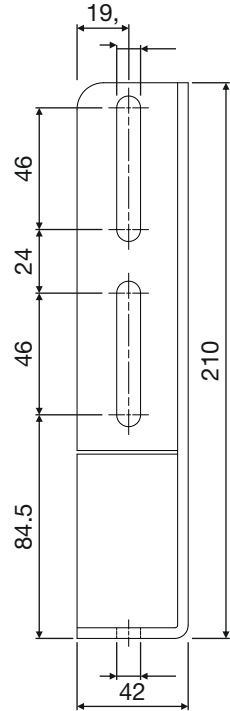
- R** **05.01168.00**
- R** +  **05.01168.05**  
2x
- L** **05.01169.00**
- L** +  **05.01169.05**  
2x
-  **05.01172.00**  
1x

Technische Änderungen vorbehalten

**FUNDAMENTWINKEL**  
**FOUNDATION BRACKET**  
**EQUERRES D'ANCRAGE AU SOL**



**210**



**R**

05.01170.00

**R** +



2x

05.01170.05

**L**

05.01171.00

**L** +



2x

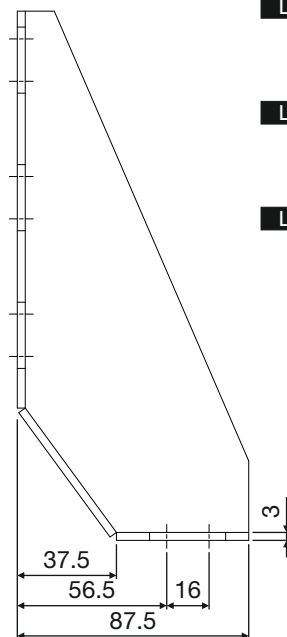
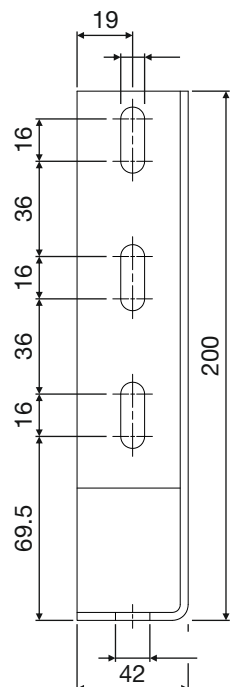
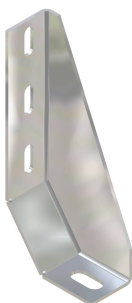
05.01171.05



1x

05.01172.00

**ECO**



**L**

05.01174.00

**L** +



3x

05.01174.05

**L** +



3x



1x

05.01174.50



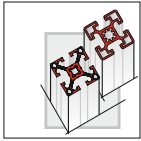
1x

05.01172.00

Stahl, verzinkt  
 Steel, galvanized  
 Acier, zingué

Technische Änderungen vorbehalten

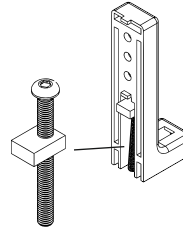
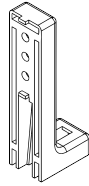
5



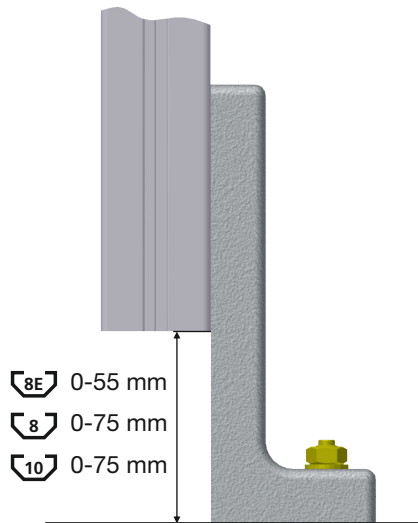
# BODENWINKEL FLOOR BRACKETS EQUERRES D'ANCRAGE AU SOL



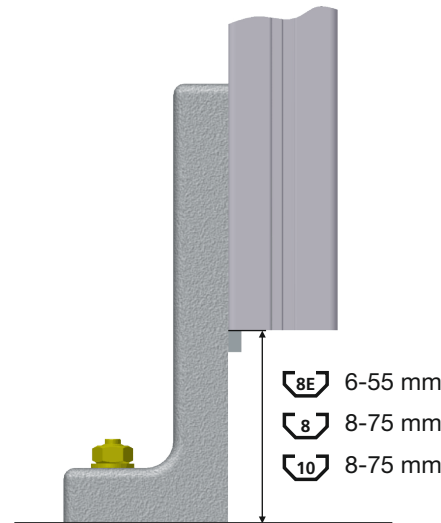
Bodenwinkel ohne Stellschraube  
Floor bracket without adjusting screw  
Equerre d'ancrage sans vis de réglage



Bodenwinkel mit Stellschraube  
Floor bracket with adjusting screw  
Equerre d'ancrage avec vis de réglage



Befestigung mit  
Verbinderschraube  
Fastening with  
connector screw  
Fixation par vis ISO  
et écrou à bille



GD-Zn blank  
bare  
nature  
  
schwarz  
black  
noir

05.xxxxx.0x

05.xxxxx.1x



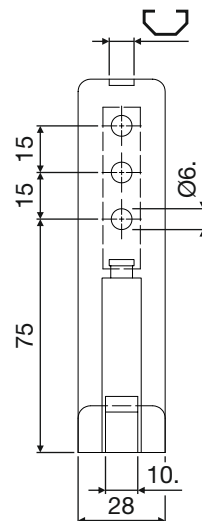
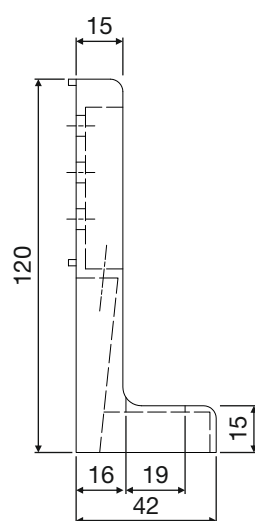
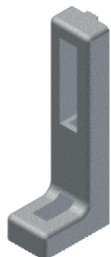
Fundamentschraube  
separat bestellen

Foundation screw  
order separately

Cheville d'ancrage  
commander séparément

05.01172.00

**30x120**



05.02225.x0



05.02225.x5



05.02225.x6



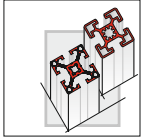
05.02199.x0



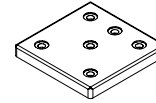
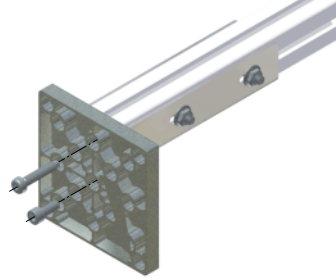
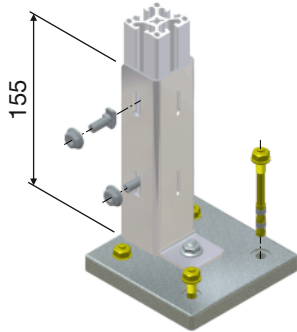
05.02199.x5

Technische Änderungen vorbehalten





# BODENPLATTEN BASE PLATES EMBASES DE PIETEMENT



**Bodenplatte**  
Base Plate  
Embase de piètement

GD-Zn



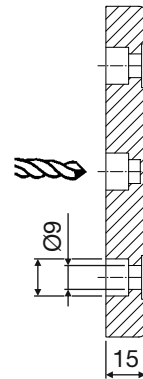
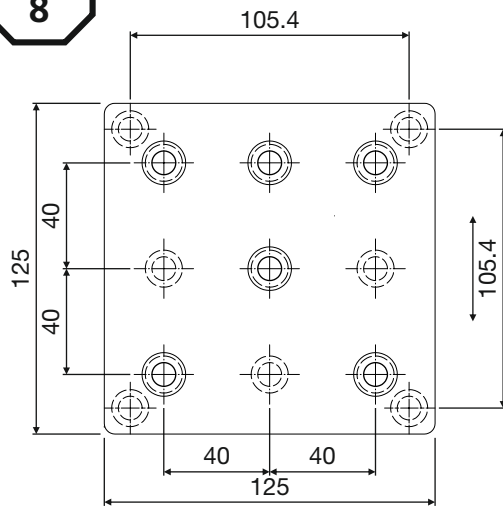
**Stützwinkel**  
Support Bracket  
Fourreau

St, vz

Vielseitige Anordnung der Profile  
40x40, 40x80 und 80x80 bzw.  
45x45, 45x90 und 90x90 möglich.

Versatile arrangement of profiles  
40x40, 40x80 and 80x80 or  
45x45, 45x90 and 90x90 possible.

Nombreuses possibilités d'agencement  
des profilés 40x40, 40x80 und 80x80 ou  
45x45, 45x90 et 90x90.



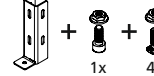
**05.02040.00**



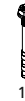
**05.01125.00**



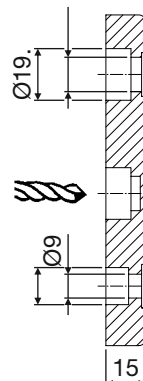
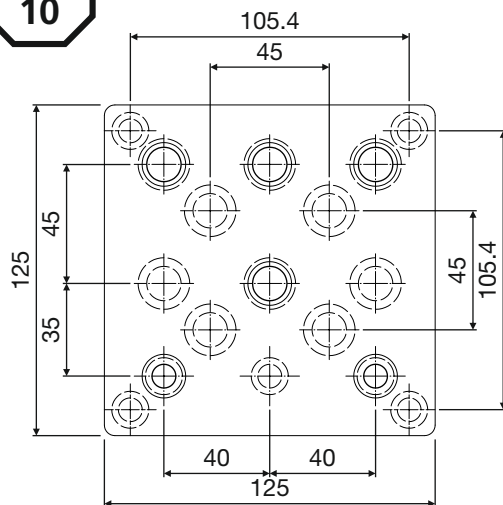
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**05.02042.05**



**05.01172.00**



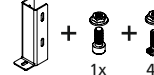
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**05.01127.00**



**05.02043.00**



**05.02043.05**



**05.01172.00**

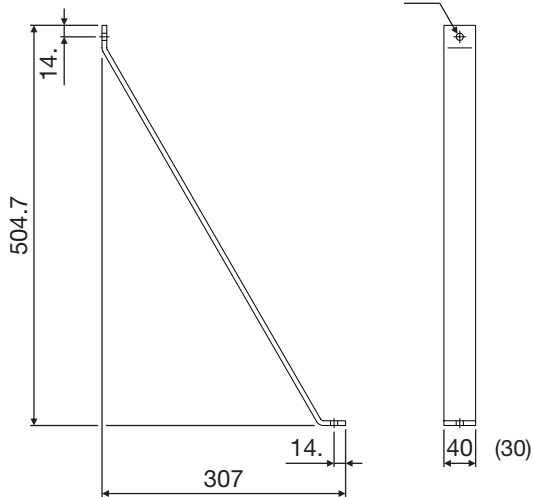
Technische Änderungen vorbehalten

# RÄDER, FÜSSE, PLATTEN WHEELS, FEET, PLATES ROUES, PIEDS, EMBASES

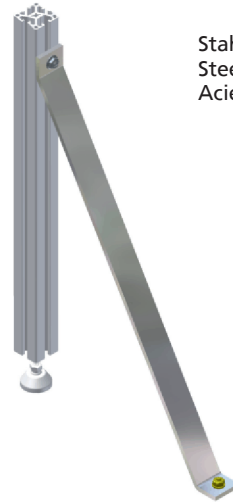


## Stützstrebe

Support strut · Bras de renfort



Stahl, verzinkt  
Steel, galvanized  
Acier, zingué



B=30 mm

05.02376.00

+ 05.02376.05  
1x

B=40 mm

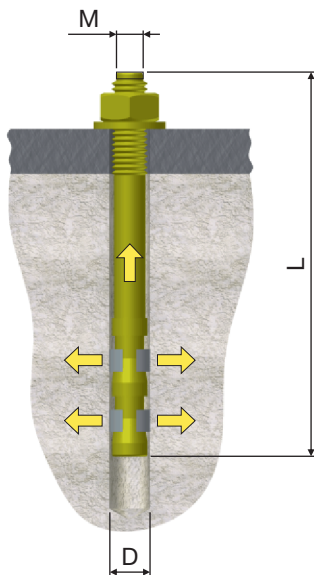
05.02038.00

+ 05.02038.05  
1x

5

## Fundamentschraube

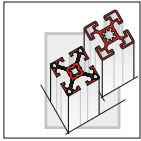
Foundation screw · Cheville d'ancrage



Stahl, verzinkt  
Steel, galvanized  
Acier, zingué

M	L	D	
M8	86	Ø9	05.01172.00
M12	156	Ø13	05.01033.00

Technische Änderungen vorbehalten



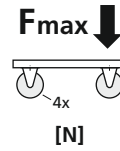
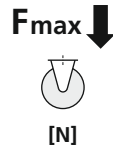
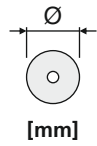
# TRANSPORT- UND LENKROLLEN

## TRANSPORT AND GUIDE ROLLERS

### ROULETTES DE TRANSPORT ET ROUES GUIDE



#### A



Varianten  
Versions  
Variantes

Ø50

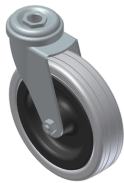
500

1500

➔ ■ 5.17



#### B



Ø75

600

1800

➔ ■ 5.18



Ø100

700

2100

➔ ■ 5.18



#### C



Ø80

600

1800

➔ ■ 5.19



Ø125

1000

3000

➔ ■ 5.19



#### D



Ø80

1250

3750

➔ ■ 5.20



Ø125

1500

4500

➔ ■ 5.20



Ø160

3000

9000

➔ ■ 5.20

Technische Änderungen vorbehalten



# TRANSPORT- UND LENKROLLEN

## TRANSPORT AND GUIDE ROLLERS

### ROULETTES DE TRANSPORT ET ROUES GUIDE



Rolle für geringe Lasten und glatte Böden geeignet.

**Ausführung:** Kunststoff PA 6

Roller suitable for small loads and level smooth surfaces.

**Finish:** Plastic PA 6

Roulette adaptée pour faibles charges et sols plans.

**Matière :** PA 6

Kostengünstige Rolle für leichte bis mittlere Lasten bei Industrieböden.

**Gehäuse:** Stabiles Stahlblech, gepresst, verzinkt-chromatiert  
**Drehkranz:** Zweifache Kugellagerung, minimales Spiel, für leichtgängigen Lauf  
**Achse:** Stahl verzinkt, Gleitlagerung  
**Rad:** Vollgummi, grau, 80° Shore A

**Radkörper:** Polyamid, schwarz

Economical rollers for light to medium loads on industrial floors.

**Housing:** Sturdy sheet steel, Pressed, zinc-chromatised  
**Bearing ring:** Twin ball Bearing, minimum play for easy running

**Axle:** Steel galvanized, slide  
**Wheel:** Solid rubber, grey, 80° Shore A  
**Wheel casing:** Polyamide, black

Roulettes de prix avantageux pour charges légères à moyennes sur sols industriels.

**Carter :** Tôle d'acier robuste, matricé, zingué, chromaté  
**Couronne de pivotement :** Double roulement à billes, faible jeu, grande souplesse de roulement  
**Axe :** Acier zingué, coussinet lisse  
**Roue :** Caoutchouc plein, gris 80° shore A  
**Corps de roue :** Polyamide, noir

Rolle in guter Qualität für leichte bis mittlere Lasten bei Industrieböden.

**Gehäuse:** Stabiles Stahlblech, gepresst, verzinkt-chromatiert  
**Drehkranz:** Zweifache Kugellagerung, minimales Spiel, für leichtgängigen Lauf  
**Achse:** Stahl verzinkt, Kugellagerung  
**Rad:** Vollgummi, grau, 80° Shore A

**Radkörper:** Polyamid, schwarz

Good quality rollers for light to medium loads on industrial floors.

**Housing:** Sturdy sheet steel, pressed, zinc-chromatised  
**Bearing ring:** Twin ball bearing, minimum play for easy running

**Axle:** Steel galvanized, ball bearing  
**Wheel:** Solid rubber, grey, 80° Shore A  
**Wheel casing:** Polyamide, black

Roulette de bonne qualité pour charges légères à moyennes sur sols industriels.

**Carter :** Tôle d'acier robuste, matricé, zingué, chromaté  
**Couronne de pivotement :** Double roulement à billes, faible jeu, grande souplesse de roulement  
**Axe :** Acier zingué, roulement à billes  
**Roue :** Caoutchouc plein, gris 80° shore A  
**Corps de roue :** Polyamide, noir

Stabile, robuste Rolle für mittlere bis schwere Lasten.

**Gehäuse:** Stabiles Stahlblech, gepresst, verzinkt-chromatiert  
**Drehkranz:** Zweifache Kugellagerung, minimales Spiel, für leichtgängigen Lauf  
**Achse:** Stahl verzinkt, Gleitlagerung  
**Rad:** Vollgummi, grau, 98° Shore A, abriebfest  
**Radkörper:** Polyamid, hellgrau

Sturdy and rugged rollers for medium to heavy loads.

**Housing:** Sturdy sheet steel, pressed, zinc-chromatised  
**Bearing ring:** Twin ball bearing, minimum play for easy running

**Axle:** Steel galvanized, slide  
**Wheel:** Solid rubber, grey, 98° Shore A, abrasion-proof  
**Wheel casing:** Polyamide, light grey

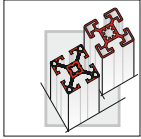
Roulette stable et robuste pour charges moyennes à lourdes

**Carter :** Tôle d'acier robuste, matricé, zingué, chromaté  
**Couronne de pivotement :** Double roulement à billes, faible jeu, grande souplesse de roulement  
**Axe :** Acier zingué, coussinet lisse  
**Roue :** Caoutchouc plein, gris 98° shore A, résistant à l'usure  
**Corps de roue :** Polyamide, gris clair

Fahr-Stopp-Rolle mit besten Laufeigenschaften und hoher Belastbarkeit für einen sicheren Stand.

Drive-Stop roller with top running characteristics and high load capacity, offering secure stand.

Roulette STOP&GO, excellentes propriétés de roulement et grande capacité de charge, offrant une grande stabilité.



**TRANSPORT- UND LENKROLLEN**  
**TRANSPORT AND GUIDE ROLLERS**  
**ROULETTES DE TRANSPORT ET ROUES GUIDE**

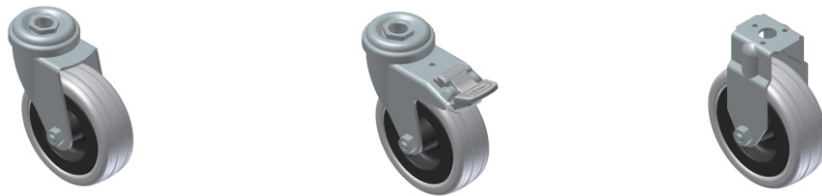


**A**



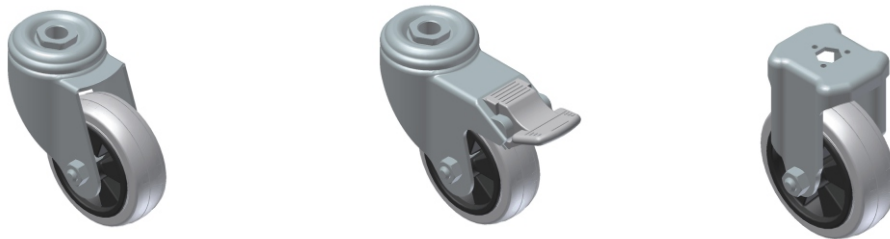
■ 5.17

**B**



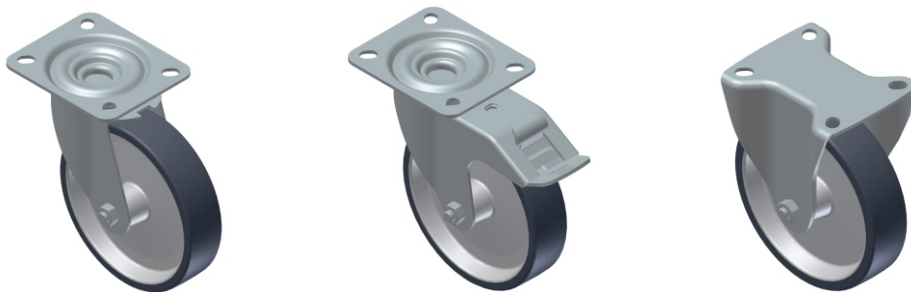
■ 5.18

**C**

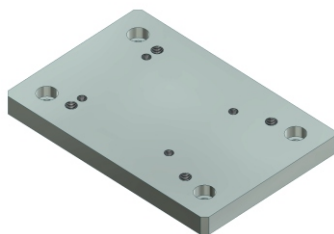


■ 5.19

**D**



■ 5.20



■ 5.24

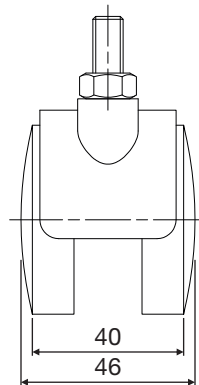
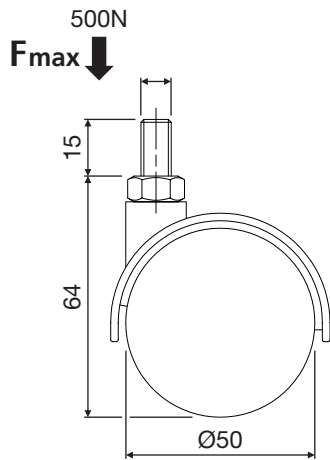
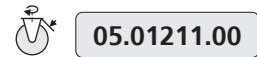
Technische Änderungen vorbehalten

**DOPPELROLLE MIT / OHNE FESTSTELLER**  
**DOUBLE ROLLER WITH / WITHOUT FASTENER**  
**ROULETTE LEGERE AVEC / SANS BLOCAGE**

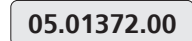
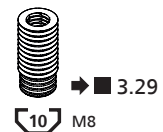
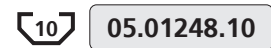
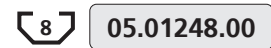


**Ø50 - stirnseitig**

Ø50 front side · Ø50 coté frontal

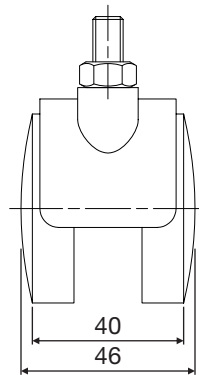
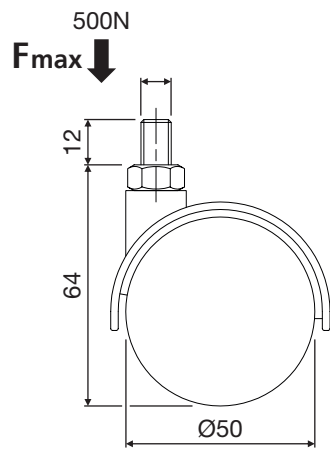
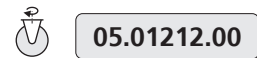
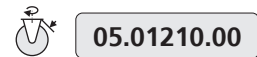


Anbausatz  
Adapter kit  
Kit de montage

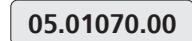
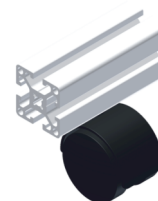


**Ø50 - nutseitig**

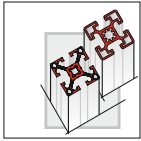
Ø50 groove side · Ø50 montage parallèle



Anbausatz  
Adapter kit  
Kit de montage



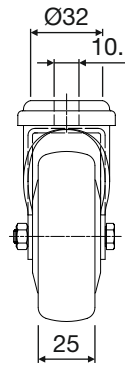
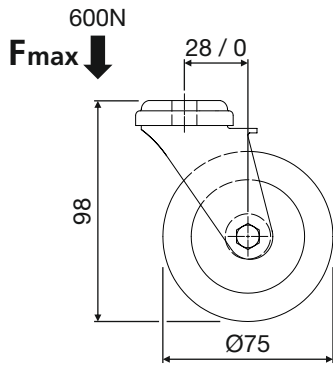
Technische Änderungen vorbehalten



**ROLLEN MIT RÜCKENLOCH**  
**ROLLERS WITH REAR HOLE**  
**ROULETTES AVEC TROU CENTRAL**



**Ø75**



**05.01241.00**

**05.01975.00**



**05.01240.00**

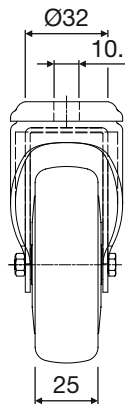
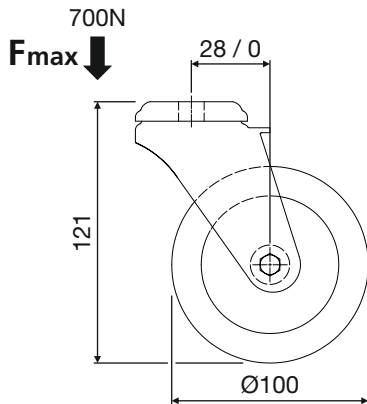
**05.01976.00**



**05.01242.00**

**05.01977.00**

**Ø100**



**05.01244.00**

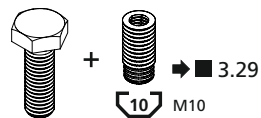
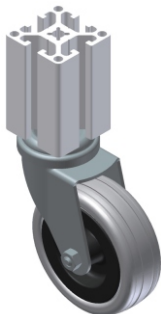
**05.01978.00**



**05.01243.00**

**05.01979.00**

**Anbausatz Profilstirnseite**  
**Front-side profile adapter kit**  
**Kit de montage en bout**



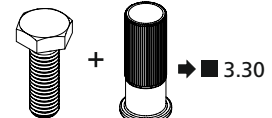
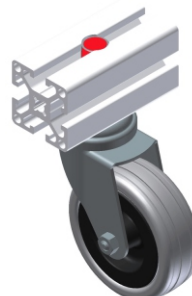
M8x40

M10x40

**05.01998.00**

**05.01999.00**

**Anbausatz Profilnut**  
**Groove profile adapter kit**  
**Kit de montage parallèle**



M8x30

M10x40

**05.01681.00**

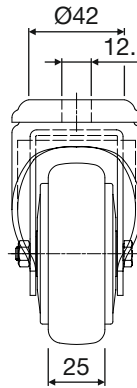
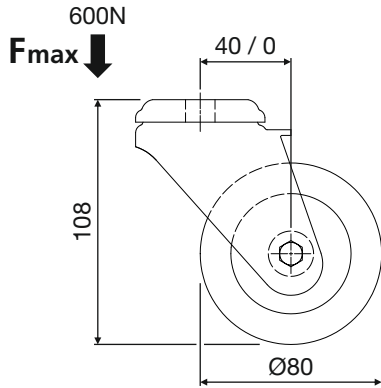
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Technische Änderungen vorbehalten

**ROLLEN MIT RÜCKENLOCH**  
**ROLLERS WITH REAR HOLE**  
**ROULETTES AVEC TROU CENTRAL**



**Ø80**



**05.01214.00**

**05.01380.00**

**05.01216.00**



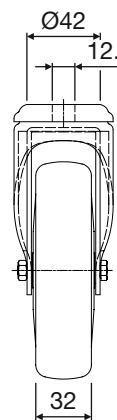
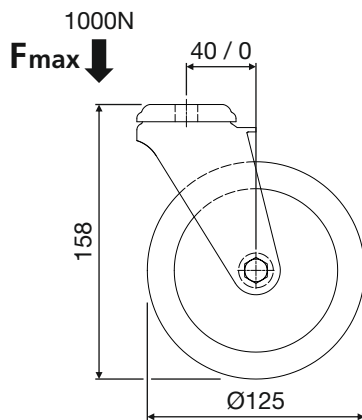
**05.01381.00**

**05.01220.00**



**05.01387.00**

**Ø125**



**05.01215.00**

**05.01382.00**



**05.01217.00**

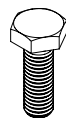
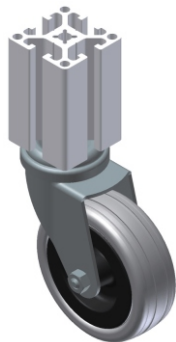
**05.01383.00**



**05.01219.00**

**05.01386.00**

**Anbausatz Profilstirnseite**  
**Front-side profile adapter kit**  
**Kit de montage en bout**



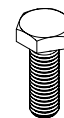
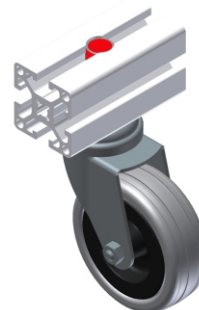
M12x30

M12x45

**05.01218.00**

**05.01218.10**

**Anbausatz Profilnut**  
**Groove profile adapter kit**  
**Kit de montage parallèle**



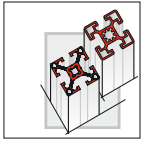
M12x45

M12x45

**05.01384.00**

**05.01384.10**

Technische Änderungen vorbehalten



**ROLLEN MIT ANSCHRAUBPLATTE**  
**ROLLERS WITH SCREW ON PLATE**  
**ROULETTES AVEC PLATINE**

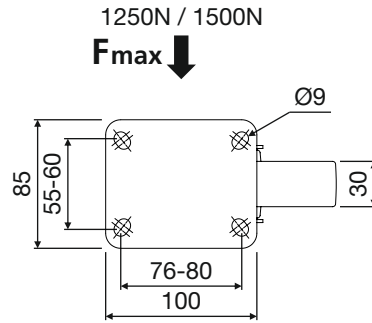
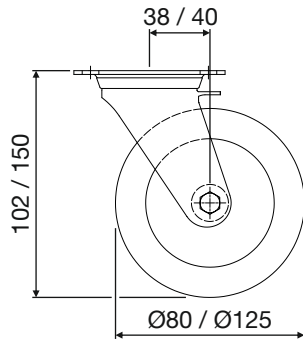


**Ø80**

**Ø125**

**A**

**B**



**A** 05.01549.00

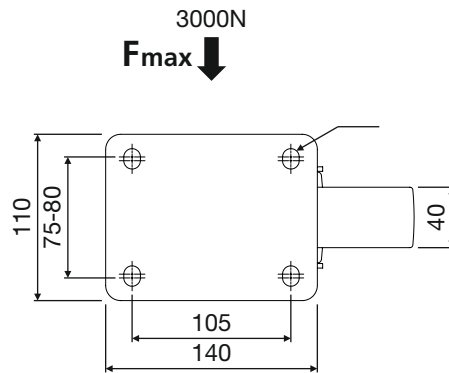
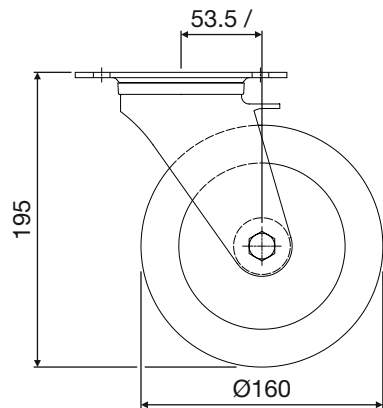
**B** 05.01246.00

**A** 05.01548.00

**B** 05.01245.00

**B** 05.01247.00

**Ø160**

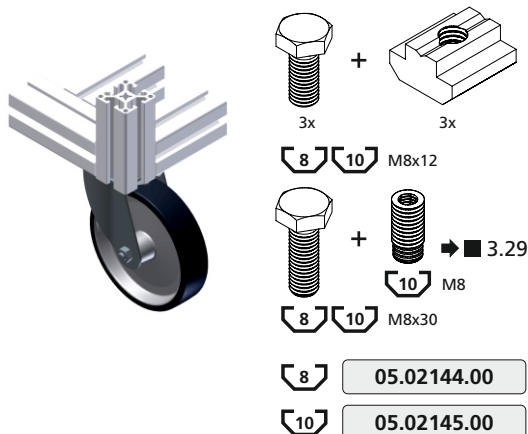


05.01521.00

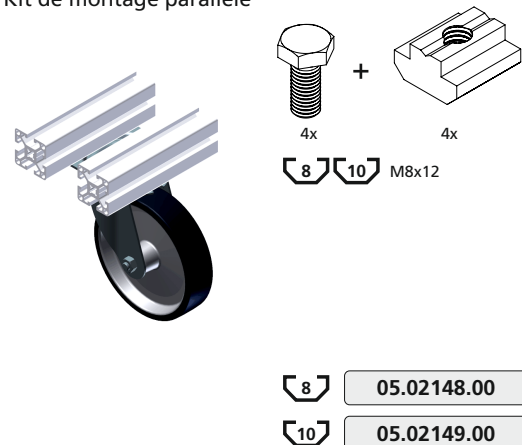
05.01520.00

05.01522.00

**Anbausatz Profilstirnseite**  
**Front-side profile adapter kit**  
**Kit de montage en bout**



**Anbausatz Profilmutter**  
**Groove profile adapter kit**  
**Kit de montage parallèle**



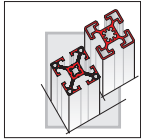
Technische Änderungen vorbehalten

**FADENSCHUTZ**  
**THREAD COVERS**  
**PARE-FILS**



<p><b>Ø75</b> <span style="float: right;">➔ ■ 5.18</span></p>  <p>Stahl, verzinkt          Steel, galvanized          Acier, zingué</p> <p> <b>05.01524.00</b></p>	<p><b>Ø80</b> <span style="float: right;">➔ ■ 5.19</span></p>  <p>Stahl, verzinkt          Steel, galvanized          Acier, zingué</p> <p> <b>05.01525.00</b></p>
<p><b>Ø100</b> <span style="float: right;">➔ ■ 5.18</span></p>  <p>Stahl, verzinkt          Steel, galvanized          Acier, zingué</p> <p> <b>05.01526.00</b></p>	<p><b>Ø125</b> <span style="float: right;">➔ ■ 5.19</span></p>  <p>Stahl, verzinkt          Steel, galvanized          Acier, zingué</p> <p> <b>05.01527.00</b></p>
<p><b>Ø125</b> <span style="float: right;">➔ ■ 5.20</span></p>  <p>Stahl, verzinkt          Steel, galvanized          Acier, zingué</p> <p> <b>05.01529.00</b></p>	<p><b>Ø160</b> <span style="float: right;">➔ ■ 5.20</span></p>  <p>Stahl, verzinkt          Steel, galvanized          Acier, zingué</p> <p> <b>05.01539.00</b></p>

Technische Änderungen vorbehalten

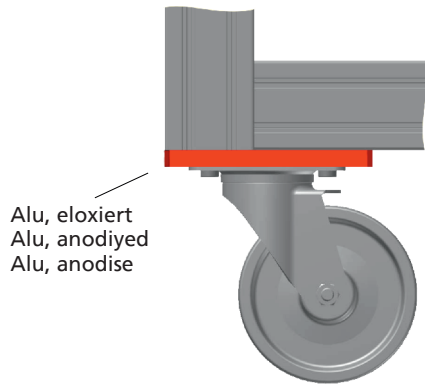


# ANSCHRAUBPLATTE SCREW-ON PLATE INTERFACE ROULETTE

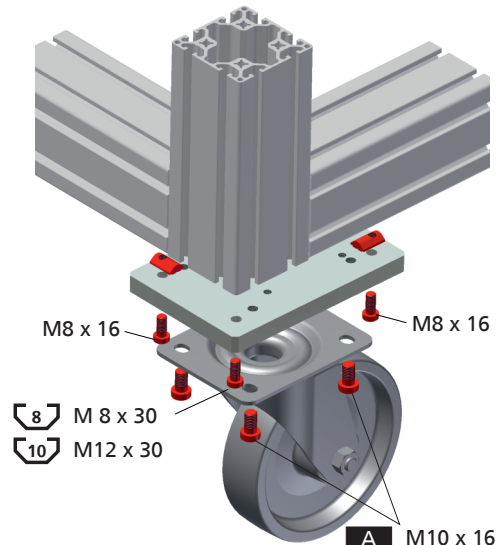


## Anwendung

Application · Application

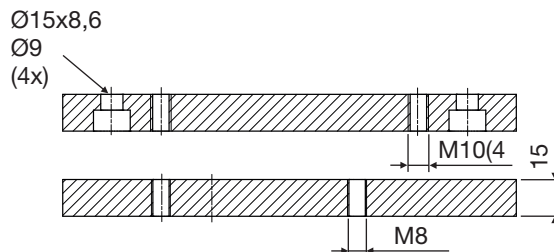
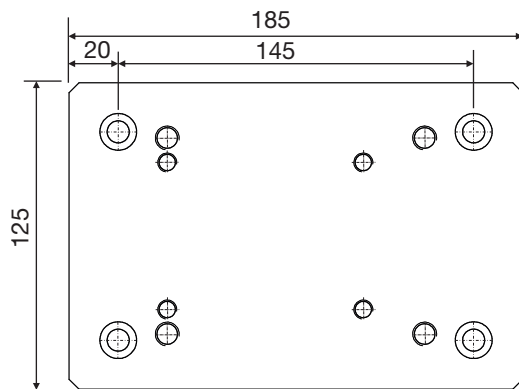
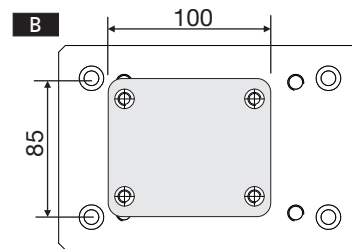
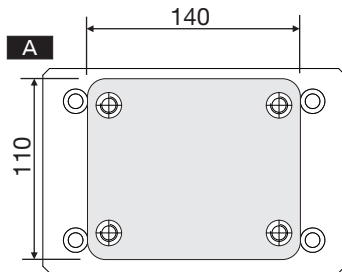


Alu, eloxiert  
Alu, anodiyed  
Alu, anodise

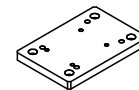


M8 x 16  
M8 x 16  
M8 x 30  
M12 x 30

A M10 x 16  
B M8 x 16

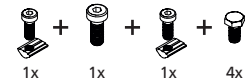


5.20



05.01582.00

Anbausatz  
Adapter kit  
Kit de montage



A 8 05.01583.00

B 8 05.01583.10

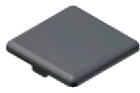
A 10 05.01584.00

B 10 05.01584.10

Technische Änderungen vorbehalten



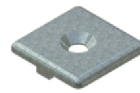
**ZUBEHÖR**  
ACCESSORIES  
ACCESSOIRES



■ 6.02



■ 6.04



■ 6.05



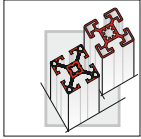
■ 6.06



■ 6.07



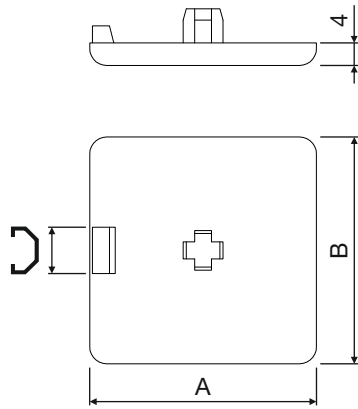
■ 6.08



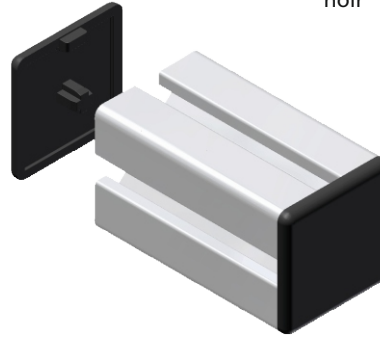
**ABDECKKAPPEN KUNSTSTOFF**  
**CAPS PLASTIC**  
**CACHES PLASTIQUE**



**Typ A**



PA 6 schwarz  
 black  
 noir



16	8S	A x B	
		16 x 40	05.01740.00
		16 x 80	05.01741.00
		16 x 120	05.01748.00
		16 x 160	05.01747.00

20	5	A x B	
		10 x 20	05.02270.00
		20 x 20	05.01742.00
		20 x 40	05.01743.00
		40 x 40	05.01744.00

30	8E	A x B	
		30 x 30	05.01183.00
		30 x 60	05.01587.00
		30 x 30-R	05.01773.00

30 <sup>10K</sup>	8K	A x B	
		30 x 30	05.02125.00
		30 x 60	2x 30x30

40	8	A x B	
		40 x 40	05.01175.00
		40 x 80	05.01176.00
		40 x 120	05.01786.00
		40 x 160	05.01188.00
		80 x 80	05.01177.00
		80 x 120	05.01787.00
		80 x 160	05.01785.00
		40 x 40-R	05.01728.00
		40 x 40-45°	05.01745.00

40 <sup>R</sup>	8	A x B	
		40R80-30°	05.01724.00
		40R80-45°	05.01725.00
		40R80-60°	05.01726.00
		40R80-90°	05.01727.00

40 <sup>10K</sup>	8	A x B	
		40 x 40	05.01311.00
		40 x 80	05.01312.00

Technische Änderungen vorbehalten

# ABDECKKAPPEN KUNSTSTOFF

CAPS PLASTIC

CACHES PLASTIQUE



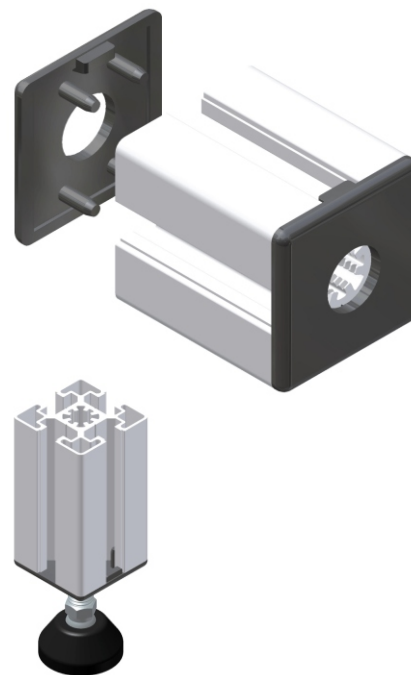
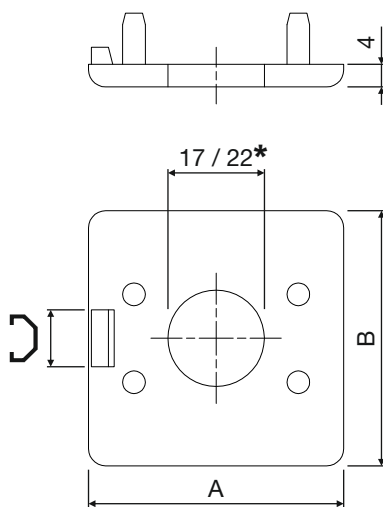
45 x 45	05.01178.00
45 x 60	05.01179.00
45 x 90	05.01180.00
45 x 180	05.02371.00
60 x 60	05.01181.00

60 x 90	05.01738.00
90 x 90	05.01182.00
90 x 90S	05.01739.00
45 x 45-R	05.01774.00

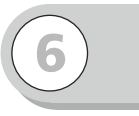


50 x 50	05.01720.00
50 x 100	05.01721.00
100x100	2x 50x100

## Typ B



PA 6  
schwarz  
black  
noir

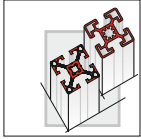


A x B	
45 x 45	05.01184.00
45 x 60	05.01185.00
60 x 60	05.01345.00

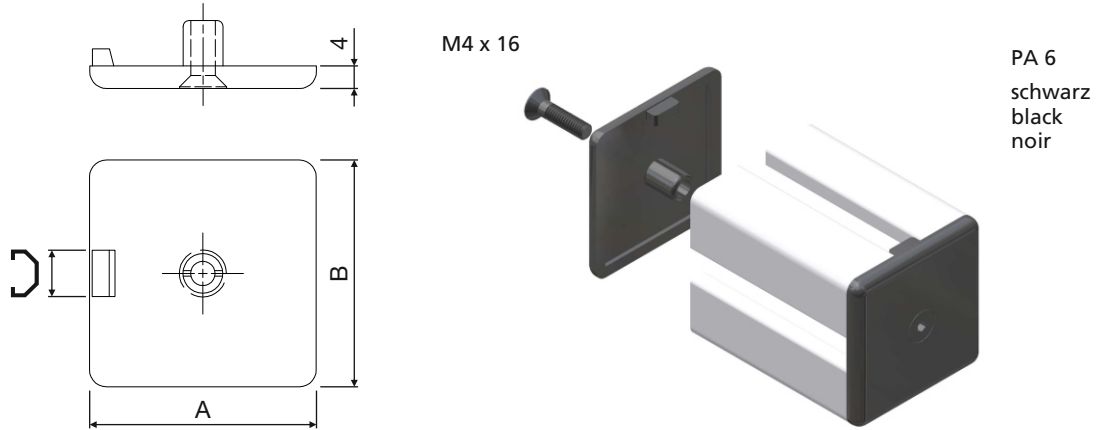


A x B	
50 x 50	05.01723.00

Technische Änderungen vorbehalten



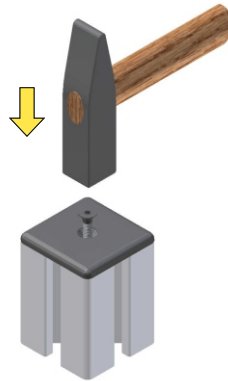
**ABDECKKAPPEN EINSCHLAGSCHRAUBE**  
**CAPS WITH IMPACT SCREWS**  
**CACHES AVEC A VIS**



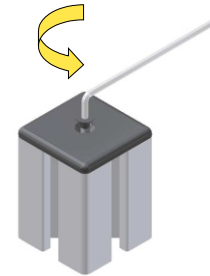
**1. ... platzieren**  
 position  
 positionner



**2. ... einschlagen**  
 knock in  
 enfoncer



**3. ... lösen**  
 undo  
 dévisser



30

8E



A x B

30 x 30

05.01775.00

30 x 60

05.01779.00

40

8



A x B

40 x 40

05.01776.00

40 x 80

05.01777.00

80 x 80

05.01778.00

45

10

45 x 45

05.01788.00

45 x 60

05.01789.00

45 x 90

05.01790.00

60 x 60

05.01791.00

90 x 90

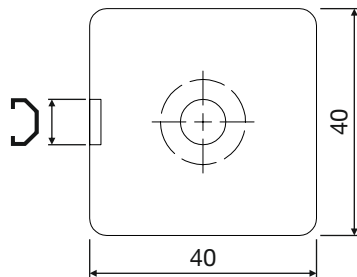
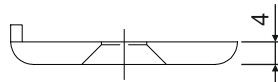
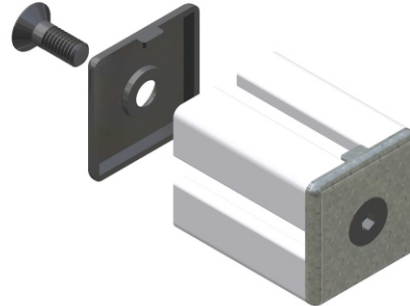
05.01792.00





Technische Änderungen vorbehalten

**ABDECKKAPPEN ZINKDRUCKGUSS**  
**CAPS DIECAST ZINC**  
**CACHES ZINC MOULE SOUS PRESSION**



SF 7.1 x 16

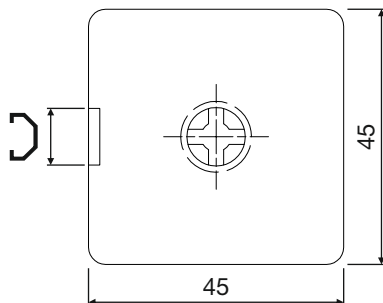
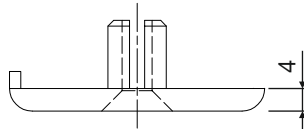
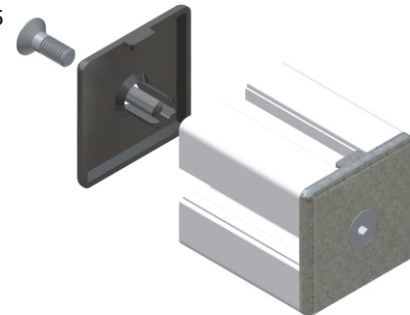






- \* **A** GD-Zn natur natural finish naturel  +  1x **05.01734.05**
- \* **B** GD-Zn schwarz black noir  +  1x **05.01735.05**

\* Nicht geeignet für Profil: 40x40 EL 1.4  
 Not suitable for profile:  
 Ne convient pas pour le profilé:

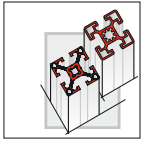


M6 x 16

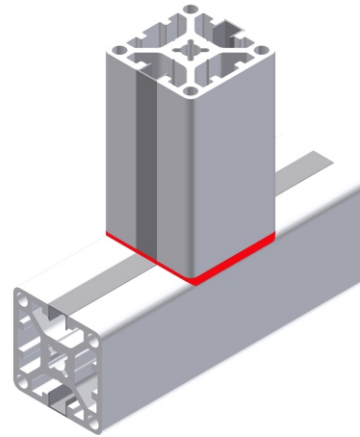
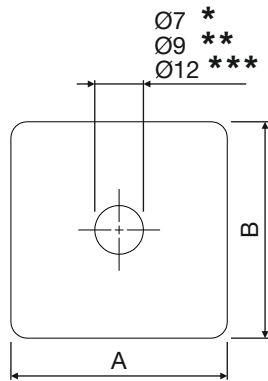
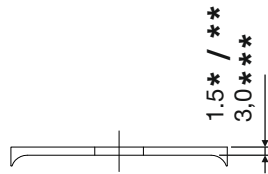


- \* **A** GD-Zn natur natural finish naturel  +  1x **05.01736.05**
- \* **B** GD-Zn schwarz black noir  +  1x **05.01737.05**

Technische Änderungen vorbehalten



# RADIUSAUSGLEICH RADIAL COMPENSATION JOINT DE CONNEXION

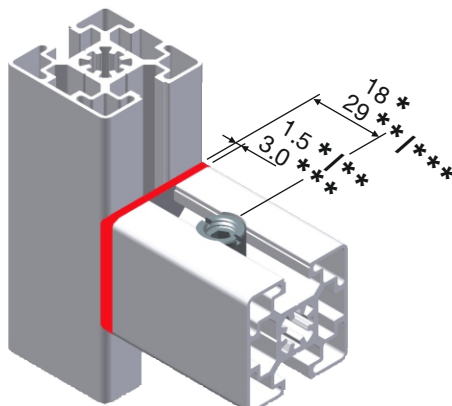


PA 6  
lichtgrau  
light grey  
gris clair

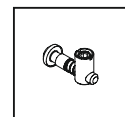
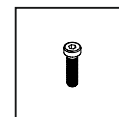
**30** **8E** \* 30 x 30 **05.01690.00**

**40** **8** \*\* 40 x 40 **05.01691.00**

**45** **10** \*\*\* 45 x 45 **05.01719.00**



Maße bei der Profilbearbeitung berücksichtigen  
Take dimensions into account for profile processing  
Cotes à prendre en compte pour l'usinage du profilé  
➡ ■ 3.02 / ➡ ■ 3.16

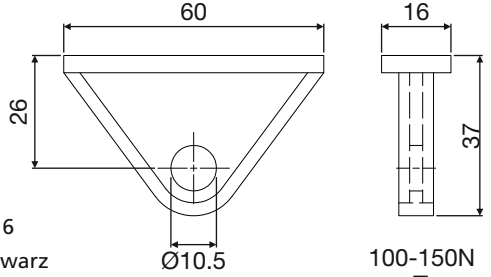
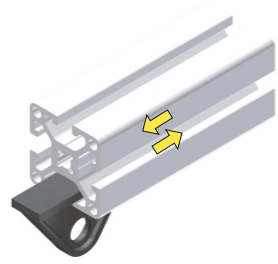


Technische Änderungen vorbehalten

# SCHIENENGLEITER SLIDE HANGER COULISSEAU



## Schienengleiter Slide hanger · Coulisseau



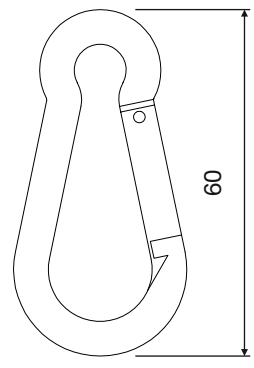
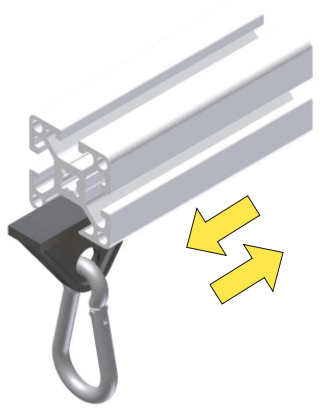
PA 6  
schwarz  
black  
noir

100-150N  
**F<sub>max</sub>** ↓



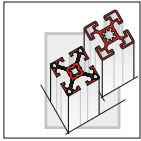
05.01192.00

## Karabinerhaken Snap hook · Mousqueton



05.01193.00

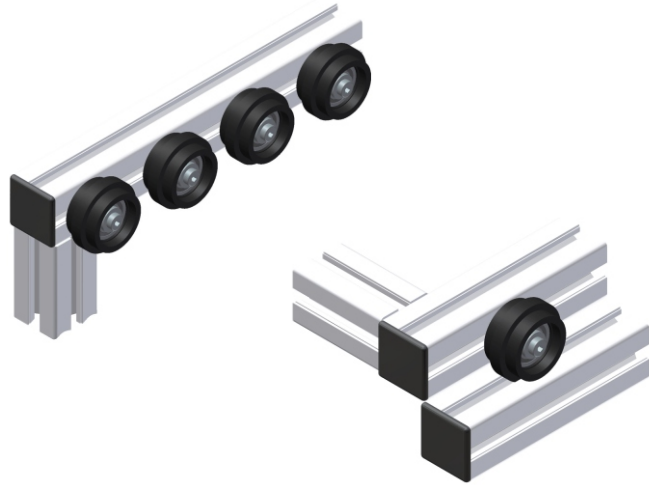
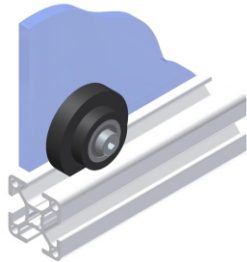
Technische Änderungen vorbehalten




**LAUFROLLEN**  
**ROLLERS**  
**GALETS**

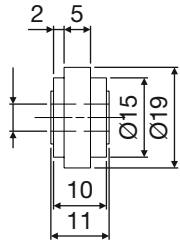



PA 6  
 schwarz  
 black  
 noir





**Typ A** 

**50N**  
**F<sub>max</sub>** ↓

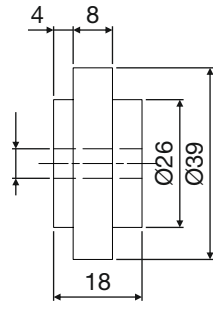




Gleitlager  
 Slide bearing  
 Coussinet lisse

**05.01624.00**


**Typ B**  

**150**  
**F<sub>max</sub>** ↓

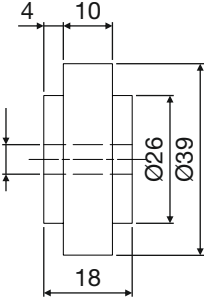




Kugellager  
 Ball bearing  
 Roulement à billes

**05.01622.00**


**Typ C** 

**150**  
**F<sub>max</sub>** ↓

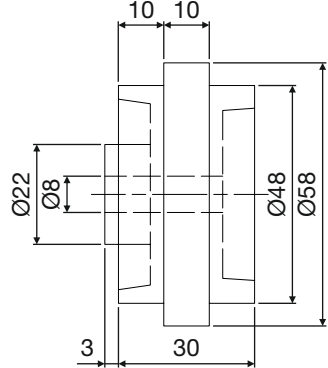




Kugellager  
 Ball bearing  
 Roulement à billes

**05.01623.00**

**Typ D** 

**150**  
**F<sub>max</sub>** ↓

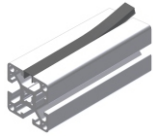
Kugellager  
 Ball bearing  
 Roulement à billes

**05.01638.00**

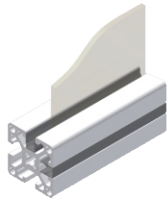
Technische Änderungen vorbehalten



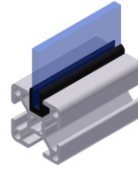
**FLÄCHENELEMENTE**  
SURFACE ELEMENTS  
REMPLISSAGE



■ 7.02



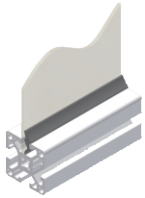
■ 7.03



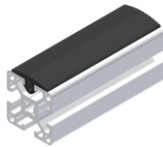
■ 7.04



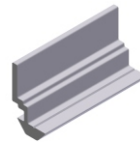
■ 7.05



■ 7.06



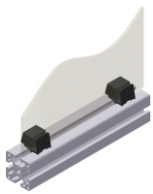
■ 7.06



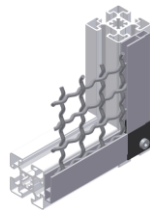
■ 7.07



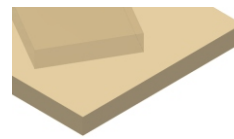
■ 7.08



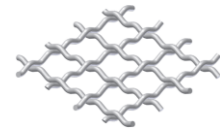
■ 7.09



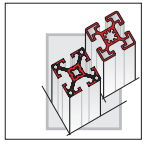
■ 7.10



■ 7.12



■ 7.14



# ABDECKPROFILE COVER PROFILES PROFILES DE PROTECTION



### Innovative Vorteile

- Schließen der Profilfläche
- Verdeckte Kabel- bzw. Pneumatikschlauch-Durchführung
- Weitere Farben auf Anfrage

### Innovative advantages

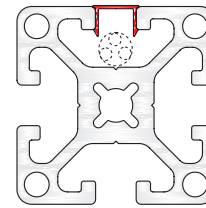
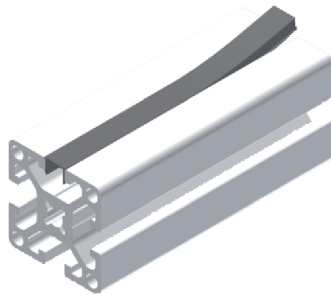
- Sealing profile surface
- Covered cable or pneumatic hose channel
- Other colours on request

### Atouts novateurs



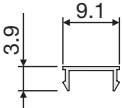

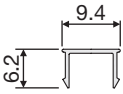

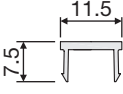
- Obturer la rainure
- Recouvrir les passages de câbles ou flexibles pneumatiques
- Autres coloris sur demande

### Anwendungsbeispiele



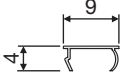


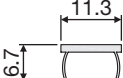
Sample applications • Exemples d'application



### Kunststoff - Plastic - PVC

					RAL	
  	PP	schwarz	black	noir	9011	<b>05.02232.00</b>
		lichtgrau	lightgrey	gris clair	7035	<b>05.02233.00</b>
		gelb	yellow	jaune	1018	<b>05.02234.00</b>
		alufarbig lackiert	alu color lapuered	aluminium-couleur laqué	9006	<b>05.02233.10</b>
 	PP	schwarz	black	noir	9011	<b>05.02235.00</b>
		lichtgrau	lightgrey	gris clair	7035	<b>05.02236.00</b>
		alufarbig lackiert	alu color lapuered	aluminium-couleur laqué	9006	<b>05.02236.10</b>
 	PVC	schwarz	black	noir	9011	<b>05.01198.00</b>
		lichtgrau	lightgrey	gris clair	7035	<b>05.01698.00</b>
	PP	wasserblau	sea blue	bleu turquoise	5021	<b>05.01197.10</b>
		verkehrsblau	traffic blue	bleu	5017	<b>05.01197.20</b>
	PP	alufarbig lackiert	alu color lapuered	aluminium-couleur laqué	9006	<b>05.01698.10</b>

### Aluminium

  						<b>05.01964.00</b>
	  					

Technische Änderungen vorbehalten

# ABDECK- UND EINFASSPROFILE

## MOUNTING RIM PROFILES

## PROFILES DE RECouvreMENT ET D'ENCADREMENT



### Innovative Vorteile

- Schließen der Profilfläche
- Sicherer Halt für Flächenelemente

### Innovative advantages

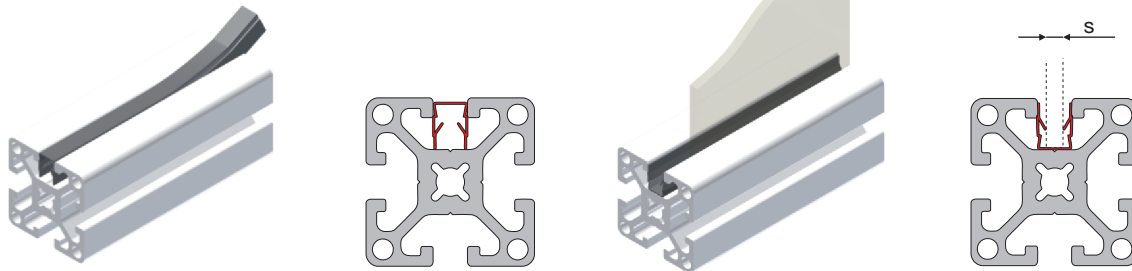
- Sealing the profile surfaces
- Secure hold for surface elements

### Atouts novateurs

- Obturer la rainure
- Maintien sûr des éléments de remplissage

### Anwendungsbeispiele

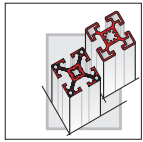
Sample applications • Exemples d'application



5		PP	schwarz	black	noir	9011	05.01847.00		
			natur	natural	naturel		05.01848.00		
8E		PP	schwarz	black	noir	9011	05.01836.00		
8K			natur	natural	naturel		05.01832.00		
		PP+TPE	schwarz	black	noir	9011	05.01859.00		
8		PP	schwarz	black	noir	9011	05.01837.00		
			natur	natural	naturel		05.01833.00		
			natur	natural	naturel	1023	05.01831.00		
		PP					05.01865.00		
10		PP+TPE	schwarz	black	noir	9011	05.01830.00		
		PE	schwarz	black	noir	9011	05.01187.00		
		PVC	grau	grey	gris		05.01049.00		



Technische Änderungen vorbehalten



# DICHTPROFILE SEALING PROFILE PROFILES D'ISOLEMENT



### Innovative Vorteile

- Aufnahme von Scheiben und Flächen-  
elementen
- Konstruktion von dichten Flächen-  
elementen
- Einfache und schnelle Montage
- Material: TPE, schwarz  
65 Shore
- PE: 50 m

### Innovative advantages

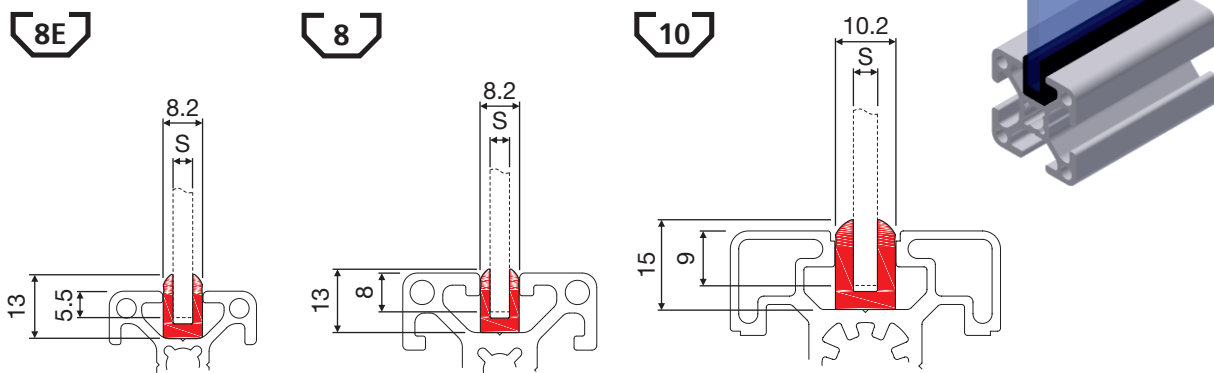
- Locating panels and surface elements
- Construction of tight surface elements
- Quick and easy assembly
- Material: TPE, black  
65 Shore
- PU (packing units): 50 m

### Atouts novateurs

- Insertion de panneaux de remplissage
- Isolement d'éléments de remplissage
- Montage rapide et aisé
- Matière : TPE, noir  
65 Shore
- Conditionnement: 50 m

### Anwendungsbeispiele

Sample applications • Exemples d'application



8E		05.02067.00	10		05.02070.00
8		05.02068.00			05.02071.00
		05.02069.00			05.02072.00
					05.02075.00

Technische Änderungen vorbehalten

# DICHTPROFILE SEALING PROFILES PROFILES D'ISOLEMENT



## Innovative Vorteile

- Verhindern das Austreten von Staub
- Für den Einsatz in Schwenktüren geeignet
- Einfache und schnelle Montage
- Material: NBR, schwarz 60 Shore
- PE: 50 m

## Innovative advantages

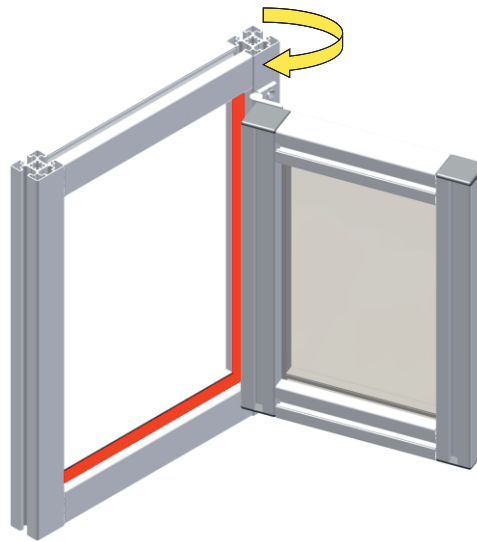
- Prevents dust emerging
- Suitable for use in swivel doors
- Quick and easy assembly
- Material: NBR, black 60 shore hardness
- PU (packing units): 50 m

## Atouts novateurs

- Etanchéité aux projections de Particules
- Adapté pour le montage de portes battantes
- Montage rapide et aisé
- Matière : NBR, noir 60 Shore
- Conditionnement: 50 m

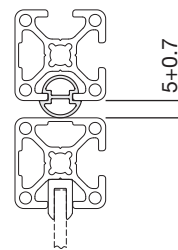
## Anwendungsbeispiele

Sample applications • Exemples d'application



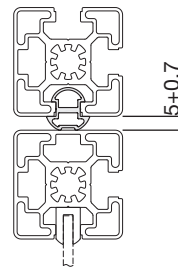
7

8E



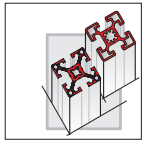
05.01850.00

10



05.01851.00

Technische Änderungen vorbehalten



# FLÄCHENELEMENTE SURFACE ELEMENTS ELEMENTS DE REMPLISSAGE



## Dichtprofile

- Konstruktion von dichten Flächenelementen
- Einfache und schnelle Montage
- Material: TPE, schwarz 65 Shore
- PE: 50 m

## Sealing profile

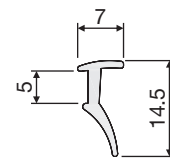
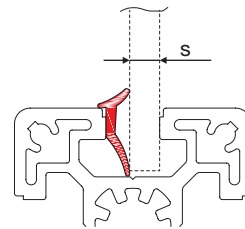
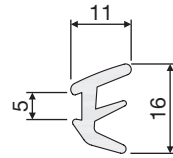
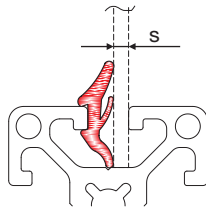
- Made of tight surface elements
- Quick and easy assembly
- Material: TPE, black 65 Shore
- PU (packing units): 50 m

## Joints étanches

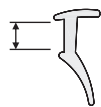
- Construction d'éléments de remplissage étanches
- Montage rapide et aisé
- Matière : TPE, noir 65 Shore
- Conditionnement: 50 m

### Anwendungsbeispiele

Sample applications • Exemples d'application



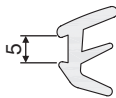
8E



s = 2-4

05.01875.00

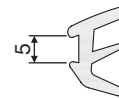
8



s = 2-4

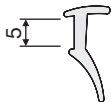
05.02192.00

10



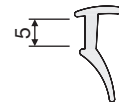
s = 4-6

05.02192.00



s = 4-6

05.02193.00



s = 6-8

05.02193.00

## Abdeckprofil Riffelgummi

- Rutschsichere Auflage
- Schutz des Profils vor Beschädigung
- Material: NBR, schwarz 65 Shore
- PE: 50 m

## Fluted rubber cover profile

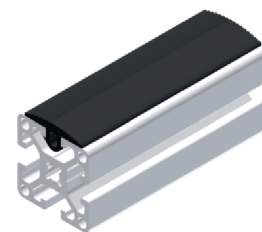
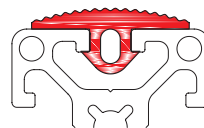
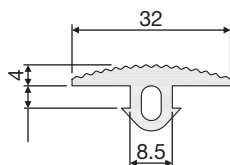
- Non-slip cover
- Profile protection against damage
- Material: NBR, black 65 Shore
- PU (packing units): 50 m

## Profilés de protection caoutchouc cannelé

- Revêtement antidérapant
- Protection du profilé contre l'endommagement
- Matière : NBR, noir 65 Shore
- Conditionnement: 50 m

### Anwendungsbeispiele

Sample applications • Exemples d'application



8

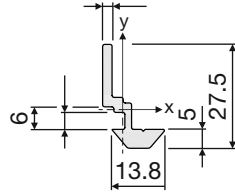
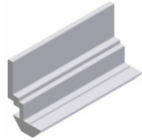
10



05.02194.00

Technische Änderungen vorbehalten

# WINKELLEISTE ANGLE RAILS CORNIERE A PANNEAUX



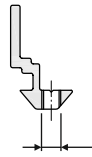
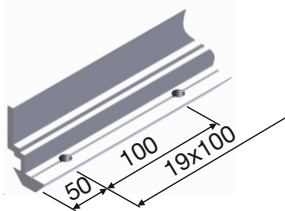
**05.01874.00**

M = 1,62 kg/m  
 $I_x = 9,98 \text{ cm}^4$   
 $W_x = 4,80 \text{ cm}^3$   
 $I_y = 6,38 \text{ cm}^4$   
 $W_y = 3,19 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

## Varianten

Variants · Variantes



**A**

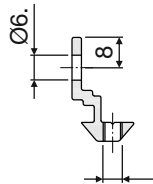
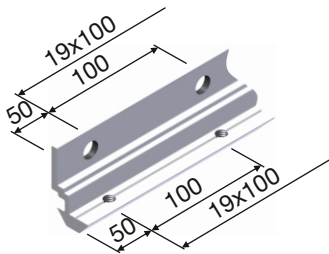
**05.01874.50**

Winkelleiste mit Gewindebohrungen

Angle rails with tapped holes

Profil support plateau avec taraudage

PE (m)  
 1



**B**

**05.01874.51**

Winkelleiste mit Gewinde- und Befestigungsbohrungen

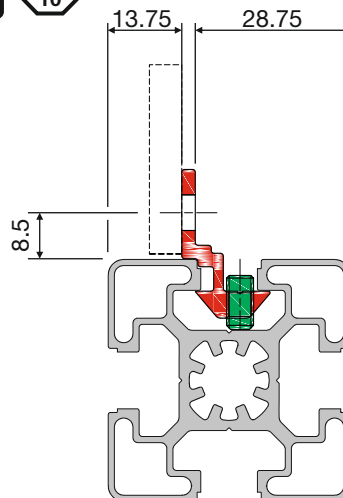
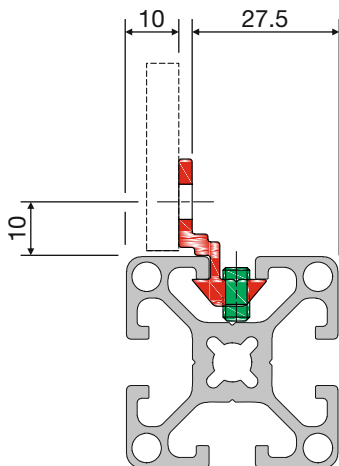
Angle rails with tapped holes and fastening holes

Profil support plateau avec perçage et taraudage

PE (m)  
 1

## Anwendung

Application · Application

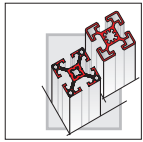


Befestigung mit Gewindestift  
 DIN 913 - M5x10

Fastening with setscrew  
 DIN 913 - M5x10

Fixation par vis sans tête  
 DIN 913 - M5x10

Technische Änderungen vorbehalten



# ANSCHRAUBHALTER SCREW-ON BRACKET EQUERRE A PANNEAUX



### Innovative Vorteile

- Besonders geeignet für leichte Bleche, Acrylscheiben usw.
- Unterschiedliche Abstände zur Profilkante durch Einsatz von Zwischenplatten
- Material: PA, schwarz

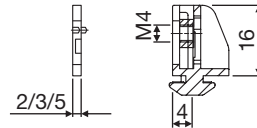
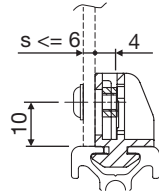
### Innovative advantages

- Particularly suitable for lightweight metal panels, acrylic plates etc.
- Alternative spacing to profile edge by using spacing plates
- Material: PA, black

### Atouts novateurs

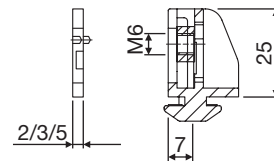
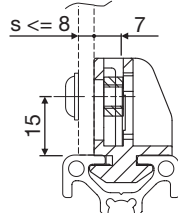
- Particulièrement adapté pour tôles légères, panneaux acryliques, etc.
- Calage différent par entretoises pour positionner le panneau
- Matière : PA, noir

5



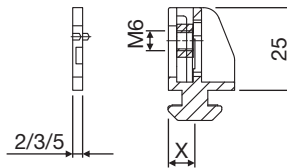
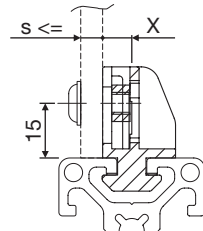
05.01838.00

8E



05.01314.00

8



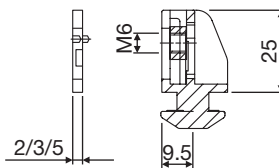
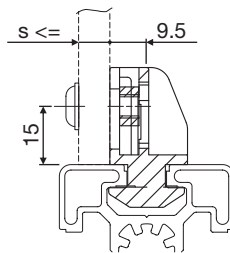
X = 8

05.01315.00

X = 14

05.01318.00

10

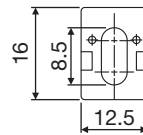
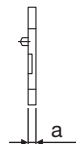


05.01316.00

## Zwischenplatten

Spacing plates · Entretoises

5



a = 2

05.02195.00

a = 3

05.02196.00

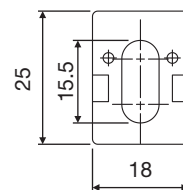
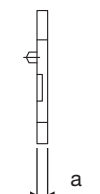
a = 4

05.02197.00

8E

8

10



a = 2

05.01324.00

a = 3

05.01317.00

a = 5

05.01325.00

Technische Änderungen vorbehalten



# KLEMMHALTER CLAMPS EQUERRE A PANNEAUX CRANTEE



## Innovative Vorteile

- Besonders geeignet für leichte Bleche, Acrylscheiben usw.
- Unterschiedliche Abstände zur Profilkante durch Einsatz des Schiebers
- Material: PA, schwarz

## Innovative advantages

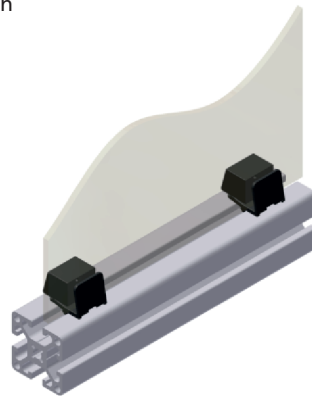
- Particularly suitable for lightweight panels, acrylic plates etc.
- Alternative spacing to profile edge by using slider
- Material: PA, black

## Atouts novateurs

- Particulièrement adapté pour tôles légères, panneaux acryliques, etc.
- Système de pincement mobile pour différentes épaisseurs de panneau
- Matière : PA, noir

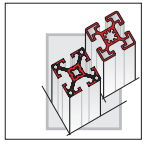
## Anwendungsbeispiele

Sample applications • Exemples d'application



5					05.01839.00	
8E					05.01319.00	
8					A = 15; X = 5	05.01320.00
					A = 8.5; X = 11.5	05.01321.00
10					05.01322.00	

Technische Änderungen vorbehalten



# GITTEREINFASSPROFIL MESH CLAMPING PROFILE PROFIL D'ENCADREMENT



### Innovative Vorteile:

- Aufnahme von Wellgitter 30x30x3 und 40x40x4
- Besonders stabil durch tiefen Einschub
- Einfache und schnelle Montage

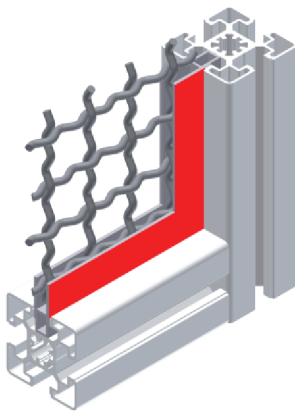
### Innovative advantages:

- Fastener for woven mesh 30x30x3 and 40x40x4
- Deep cavity for greater sturdiness
- Easy and fast assembly

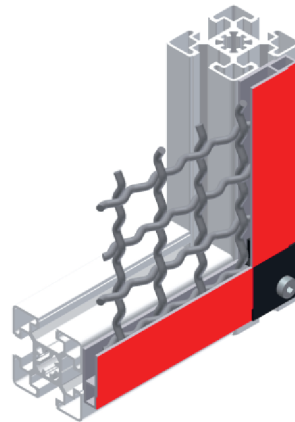
### Atouts novateurs:

- Fixation de grillage ondulé 30x30x3 et 40x40x4
- Particulièrement robuste par introduction profonde
- Montage simple et rapide

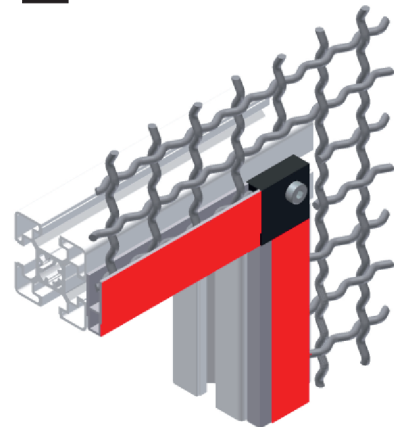
A



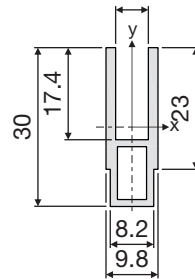
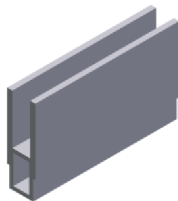
B



C



30x10

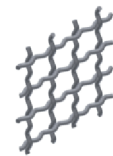


05.01117.00

M = 0,32 kg/m

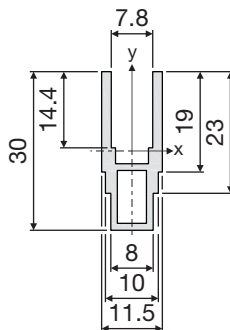
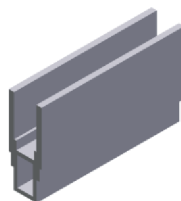
PE (m)

6 / 30 / 60



➔ 30x30x3

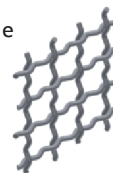
30x12



05.01118.00

M = 0,35 kg/m

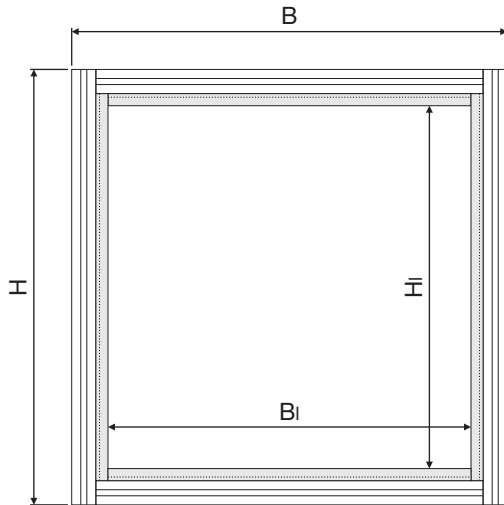
Auf Anfrage  
On Request  
Sur demande





➔ 40x40x4

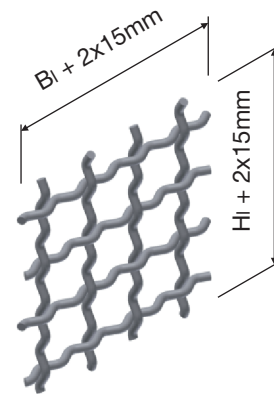
Technische Änderungen vorbehalten

# GITTEREINFASSPROFIL MESH CLAMPING PROFILE PROFIL D'ENCADREMENT



  $B_i = B - 2 \times 63 \text{ mm}$     $H_i = H - 2 \times 63 \text{ mm}$   
  $B_i = B - 2 \times 62 \text{ mm}$     $H_i = H - 2 \times 62 \text{ mm}$

→ ■ 7.14

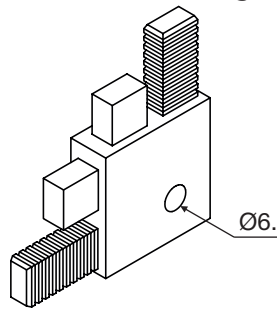


7

## Eckelemente

Corner elements · Élément d'angle

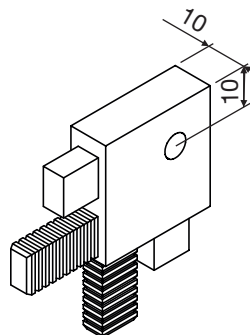
→ ■ B



05.01146.00

NBR, schwarz  
60 Shore  
 NBR, black  
60 Shore  
 NBR, noir  
60 Shore

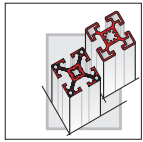
→ ■ C



05.01147.00

NBR, schwarz  
60 Shore  
 NBR, black  
60 Shore  
 NBR, noir  
60 Shore

Technische Änderungen vorbehalten



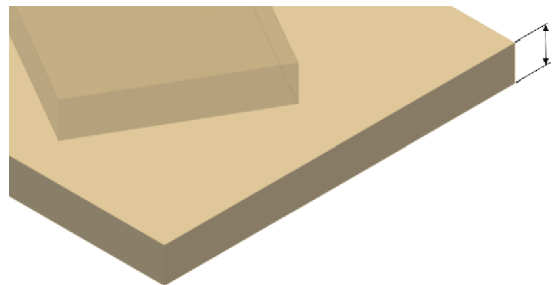
# FLÄCHENELEMENTE SURFACE ELEMENTS REEMPLISSAGE



## Geschlossene Flächenelemente

## Closed surface elements

## Panneaux de remplissage fermé



### Polycarbonat

- Markenname: Makrolon
- Gute Schlagfestigkeit und Zähigkeit
- Sehr gute optische Eigenschaften
- 1mm:  $m = 1.2 \text{ kg/m}^2$
- Klar oder rauchfarben getönt
- Maße auf Anfrage  
 $s = 2, 3, 4, 5, 6, 8, 10, 12 \text{ mm}$

### Polycarbonate

- Brand name: Makrolon
- Good impact resistance and resilience
- Very good optical properties
- 1mm:  $m = 1.2 \text{ kg/m}^2$
- Transparent or smoke-tinted
- Dimensions on request  
 $s = 2, 3, 4, 5, 6, 8, 10, 12 \text{ mm}$

### Polycarbonate

- Type: Makrolon
- Bonne endurance et résistance aux chocs
- Très bonnes propriétés optiques
- 1mm:  $m = 1.2 \text{ kg/m}^2$
- Transparent ou fumé
- Dimensions sur demande  
 $s = 2, 3, 4, 5, 6, 8, 10, 12 \text{ mm}$

### PMMA

- Markenname: Plexiglas
- Gute chemische Beständigkeit
- 1mm:  $m = 1.18 \text{ kg/m}^2$
- Klar oder rauchfarben getönt
- Maße auf Anfrage  
 $s = 2, 3, 4, 5, 6, 8, 10, 12 \text{ mm}$

### PMMA

- Brand name: Plexiglas
- Good chemical resistance
- 1mm:  $m = 1.18 \text{ kg/m}^2$
- Transparent or smoke-tinted
- Dimensions on request  
 $s = 2, 3, 4, 5, 6, 8, 10, 12 \text{ mm}$

### PMMA

- Type: Plexiglas
- Bonne résistance chimique
- 1mm:  $m = 1.18 \text{ kg/m}^2$
- Transparent ou fumé
- Dimensions sur demande  
 $s = 2, 3, 4, 5, 6, 8, 10, 12 \text{ mm}$

### Vollkunststoff

- Hohe Abrieb- und Schlagfestigkeit
- Geeignet für hochbeanspruchte Verkleidungen
- Hohe Temperaturbeständigkeit
- 1mm:  $m = 1.4 \text{ kg/m}^2$
- Farben ähnlich RAL auf Anfrage  
4 mm nur ähnlich RAL 7035
- Maße auf Anfrage  
 $s = 4, 6, 8 \text{ mm}$

### Full plastic

- Highly resistant to abrasion and knocks
- Suitable for highly stressed panelling
- Highly temperature resistance
- 1mm:  $m = 1.4 \text{ kg/m}^2$
- RAL-similar colours on request  
4 mm only similar to RAL 7035
- Dimensions on request  
 $s = 4, 6, 8 \text{ mm}$

### Tout plastique

- Haute résistance à l'usure et aux chocs
- Adapté pour revêtements fortement sollicités
- Haute résistance thermique
- 1mm:  $m = 1.4 \text{ kg/m}^2$
- Couleurs similaires RAL sur demande 4 mm seulement similaire à RAL 7035
- Dimensions sur demande  
 $s = 4, 6, 8 \text{ mm}$

### Hartfaserplatte

- Farbe: weiß
- Maße auf Anfrage  
 $s = 4, 5 \text{ mm}$

### Hardboard

- Colour: white
- Dimensions on request  
 $s = 4, 5 \text{ mm}$

### Panneau de fibres

- Couleur: blanc
- Dimensions sur demande  
 $s = 4, 5 \text{ mm}$

### FOREX-Platten

- Farbe: weiß / RAL-Farben auf Anfrage
- Maße auf Anfrage  
 $s = 3, 4, 5, 6, 8 \text{ mm}$

### FOREX-board

- Colour: white / RAL-similar colours on request
- Dimensions on request  
 $s = 3, 4, 5, 6, 8 \text{ mm}$

### Panneau FOREX

- Couleur: blanc / couleurs similaires RAL sur demand
- Dimensions sur demande  
 $s = 3, 4, 5, 6, 8 \text{ mm}$

# FLÄCHENELEMENTE SURFACE ELEMENTS REEMPLISSAGE



## Spanplatte

- Preiswertes Flächenelement
- Mittlere mechanische Eigenschaften
- Farben: weiß, lichtgrau (RAL 7035)
- Maße auf Anfrage  
s = 6, 8 mm

## Chipboard

- Economical surface element
- Mean mechanical properties
- Colours: white, light grey (RAL 7035)
- Dimensions on request  
s = 6, 8 mm

## Panneaux d'agglomérés

- Élément de remplissage économique
- Propriétés mécaniques moyennes
- Couleurs: blanc, gris clair (RAL 7035)
- Dimensions sur demande  
s = 6, 8 mm

## Blech

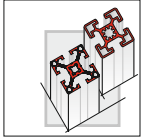
- Werkstoff: Aluminium, Stahl, VA
- Oberflächen: blank, eloxiert oder beschichtet
- 1mm (Al): m = 2.7 kg/m<sup>2</sup>
- 1mm (St): m = 7.9 kg/m<sup>2</sup>
- 1mm (VA): m = 8.0 kg/m<sup>2</sup>
- Farben nach RAL auf Anfrage
- Maße auf Anfrage  
s = 2, 3 mm

## Metal sheet

- Material: Aluminium, steel, VA
- Surfaces: natural finish, anodised or coated
- 1mm (Al): m = 2.7 kg/m<sup>2</sup>
- 1mm (St): m = 7.9 kg/m<sup>2</sup>
- 1mm (VA): m = 8.0 kg/m<sup>2</sup>
- RAL colours on request
- Dimensions on request  
s = 2, 3 mm

## Tôle

- Matière: aluminium, acier, inox
- Surfaces: naturelle, anodisée ou enduite
- 1mm (Al): m = 2.7 kg/m<sup>2</sup>
- 1mm (St): m = 7.9 kg/m<sup>2</sup>
- 1mm (VA): m = 8.0 kg/m<sup>2</sup>
- Couleurs selon RAL sur demande
- Dimensions sur demande  
s = 2, 3 mm



# FLÄCHENELEMENTE SURFACE ELEMENTS REEMPLISSAGE



## Wellgitter

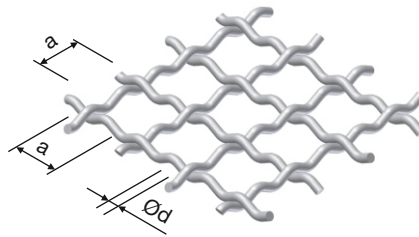
- Hohe Festigkeit des Stahldrahtes
- Geeignet für beanspruchte Sicherheitseinrichtungen
- Bieten Schutz vor Durchgreifen bzw. großen Teilen
- Oberfläche: verzinkt oder beschichtet
- Farben: schwarz; weitere Farben auf Anfrage

## Woven mesh

- High-strength steel wire
- Suitable for highly stressed safety installations
- Only offers protection against reaching in or for large parts
- Surface: galvanised or coated
- Colour: black, other colours on request

## Grille ondulée

- Résistance élevée du fil d'acier
- Adapté pour installations de sécurité fortement sollicitées
- Ne protège que contre l'intrusion ou contre les grandes pièces
- Surface: zinguée ou enduite
- Couleurs: noir, autres couleurs sur demande



### Wellgitter 30

- $a \times a \times \varnothing d$   
30 x 30 x 3
- $m = 3.69 \text{ kg/m}^2$

- Maße auf Anfrage

### Woven mesh 30

- $a \times a \times \varnothing d$   
30 x 30 x 3
- $m = 3.69 \text{ kg/m}^2$

- Dimensions on request

### Grille ondulée 30

- $a \times a \times \varnothing d$   
30 x 30 x 3
- $m = 3.69 \text{ kg/m}^2$

- Dimensions sur demande

### Wellgitter 40

- $a \times a \times \varnothing d$   
40 x 40 x 4
- $m = 4.92 \text{ kg/m}^2$

- Maße auf Anfrage

### Woven mesh 40

- $a \times a \times \varnothing d$   
40 x 40 x 4
- $m = 4.92 \text{ kg/m}^2$

- Dimensions on request

### Grille ondulée 40

- $a \times a \times \varnothing d$   
40 x 40 x 4
- $m = 4.92 \text{ kg/m}^2$

- Dimensions sur demande

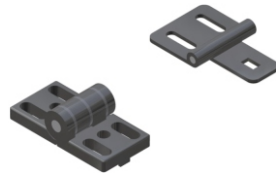
# TÜREN UND TÜRELEMENTE

## DOORS AND DOOR ELEMENTS

### PORTES ET ACCESSOIRES



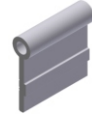
■ 8.02



■ 8.04



■ 8.08



■ 8.10



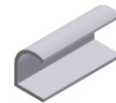
■ 8.12



■ 8.13



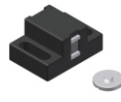
■ 8.14



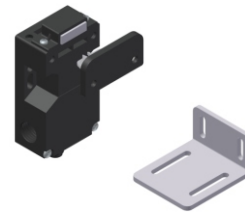
■ 8.15



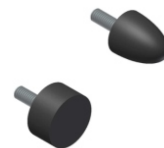
■ 8.16



■ 8.19



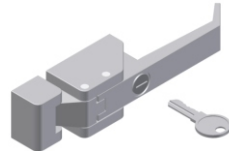
■ 8.20



■ 8.21



■ 8.22



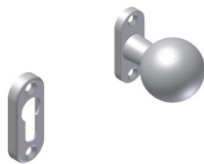
■ 8.23



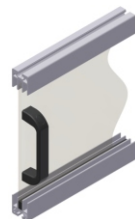
■ 8.24



■ 8.25



■ 8.26



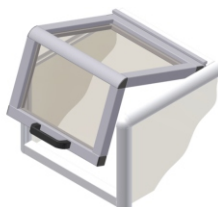
■ 8.28



■ 8.30



■ 8.32



■ 8.33



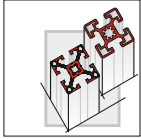
■ 8.34



■ 8.35



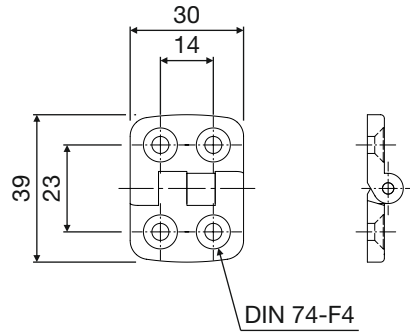
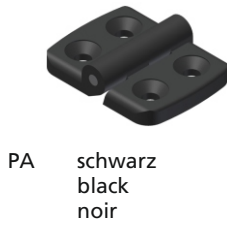
■ 8.36



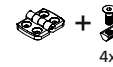
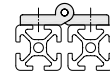
**SCHARNIERE**  
HINGES  
CHARNIERES



**20x20**



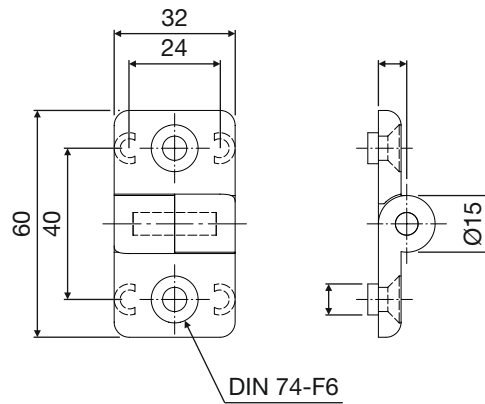
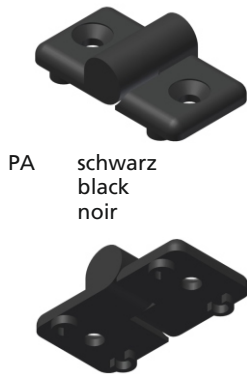
20 / 20



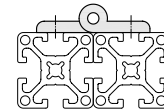
05.01300.05

4x

**32x60**



40 / 40



05.01630.05

2x



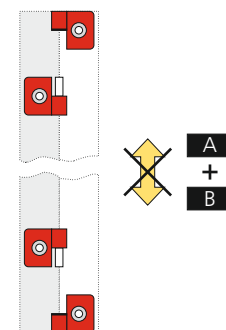
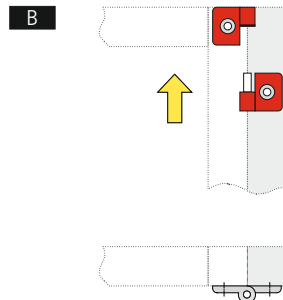
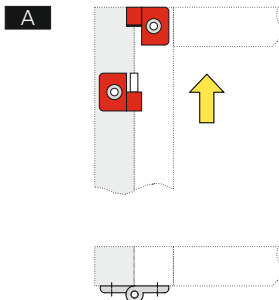
05.01629.05

2x

Aushängbare Tür  
**LINKS / LINKS**  
Demountable doors  
**LEFT / LEFT**  
Porte dégonçable  
**GAUCHE / GAUCHE**

Aushängbare Tür  
**RECHTS / RECHTS**  
Demountable door  
**RIGHT / RIGHT**  
Porte dégonçable  
**DROITE / DROITE**

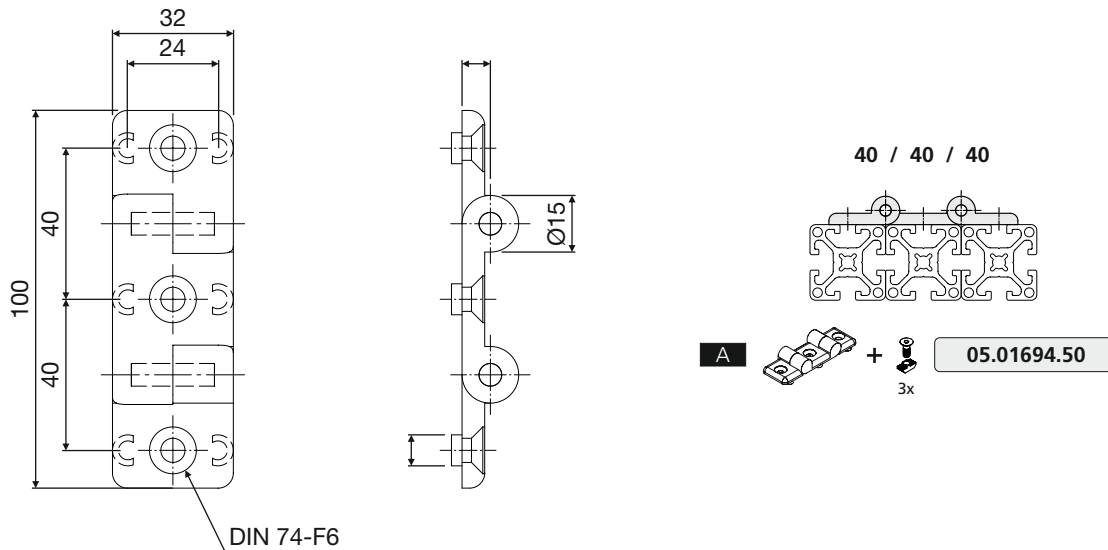
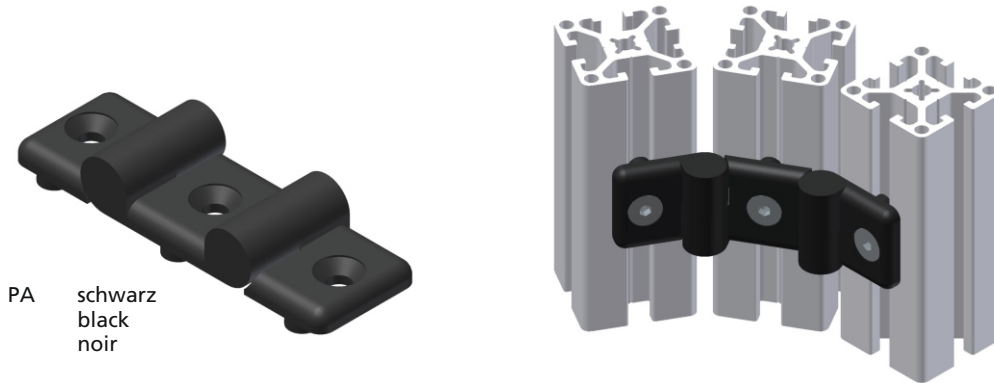
Nicht aushängbare Tür  
**LINKS / RECHTS**  
Non-demountable doors  
**LEFT / RIGHT**  
Porte non dégonçable  
**GAUCHE / DROITE**



Technische Änderungen vorbehalten

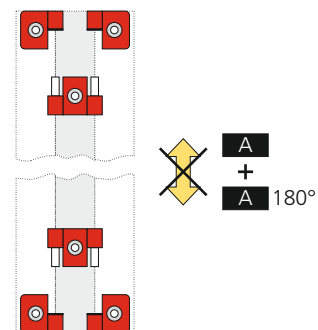
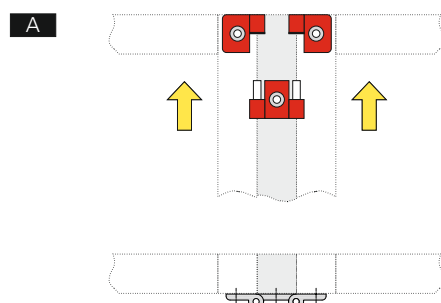


**DOPPELSCHARNIER**  
**DOUBLE HINGES**  
**DOUBLE CHARNIERE**

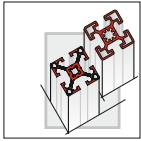


Aushängbare Türen  
 Demountable doors  
 Portes dégonçables

Nicht aushängbare Türen  
 (180° gedreht)  
 Non-demountable doors  
 (turned through 180°)  
 Portes non dégonçables  
 (tournées sur 180°)



Technische Änderungen vorbehalten

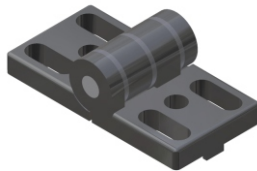


# SCHARNIERE HINGES CHARNIERES

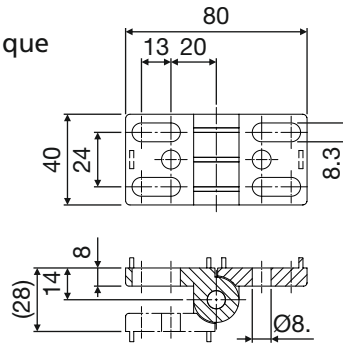


## 40 Zn, symmetrisch

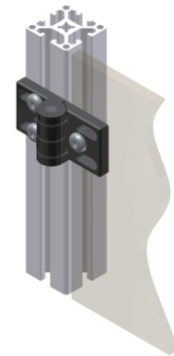
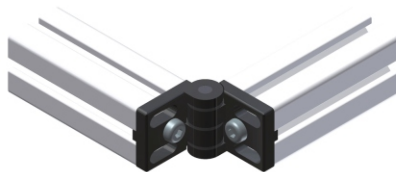
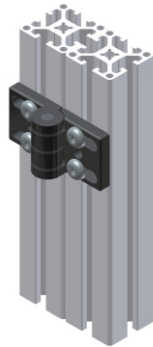
40 Zn, symmetric · 40 Zn, symétrique



Zinkdruckguss, schwarz  
Zinc diecast, black  
Zamak, noir



05.01639.00

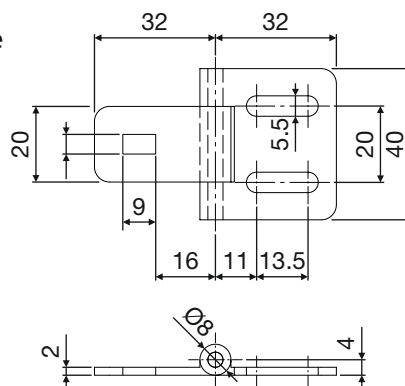


## Blechscharnier

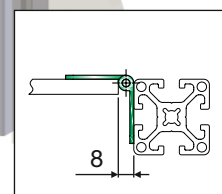
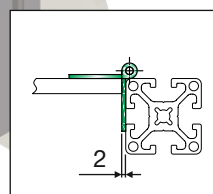
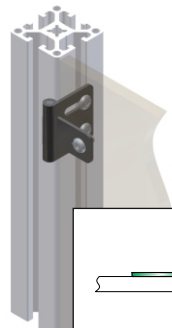
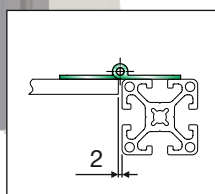
Sheet metal hinge · Charnière en tôle



Stahl, schwarz beschichtet  
Steel, black coated  
Acier, noire pelliculé



05.01119.00



Technische Änderungen vorbehalten

# SCHARNIERE

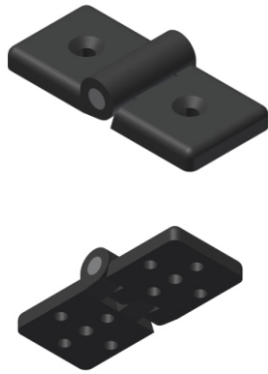
## HINGES

### CHARNIERES

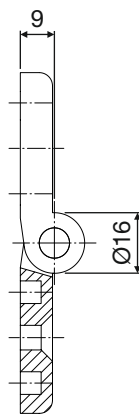
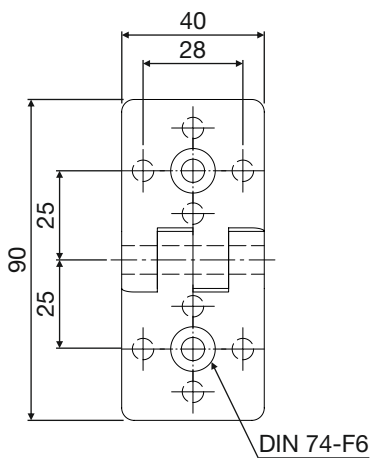


#### 45, symmetrisch

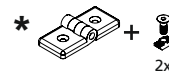
45, symmetric · 45, symétrique



PA6, schwarz  
PA6, black  
PA6, noir



05.01303.00



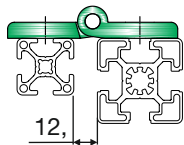
05.01303.xx

2x

#### \*Mit Befestigung

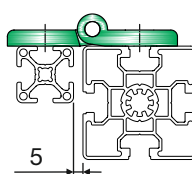
\*With adapter kit · \*Avec kit de montage

30 - 45



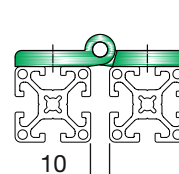
05.01303.11

30 - 60



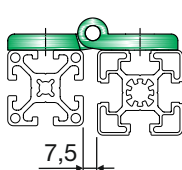
05.01303.11

40 - 40



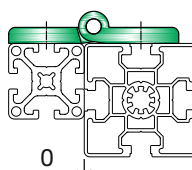
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40 - 45



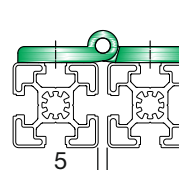
05.01303.13

40 - 60



05.01303.13

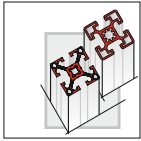
45 - 45



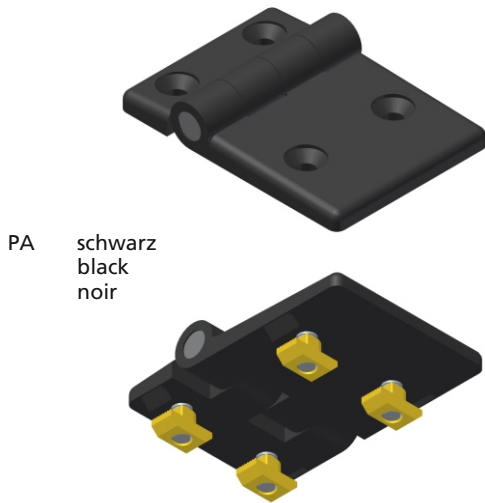
05.01303.14

Technische Änderungen vorbehalten

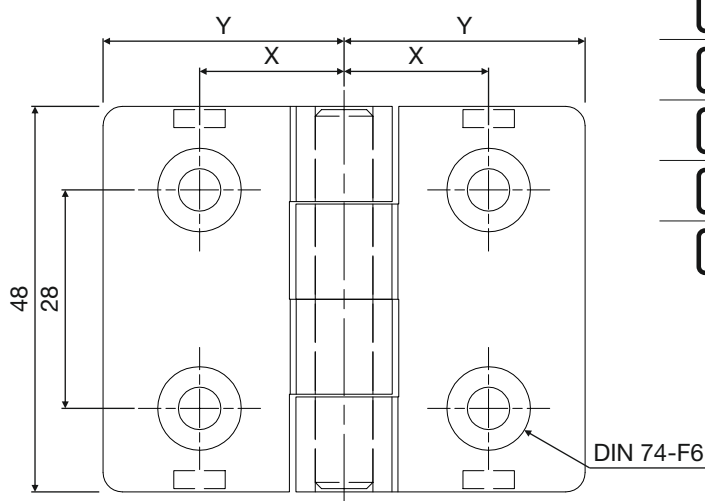
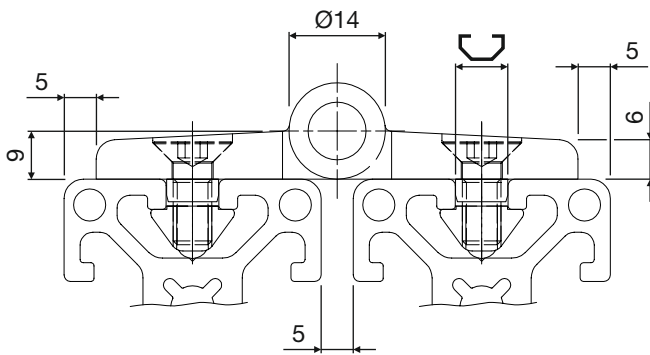




**KUNSTSTOFF-SCHARNIER-SYSTEM**  
**PLASTIC HINGE SYSTEM**  
**CHARNIERE DE SYSTEME POLYAMIDE**



PA schwarz  
 black  
 noir



		X	Y
		17.5	27.5
		22.5	37.5
		25	42.5
		27.5	47.5
		32.5	57.5

Technische Änderungen vorbehalten

# KUNSTSTOFF-SCHARNIER-SYSTEM

## PLASTIC HINGE SYSTEM

### CHARNIERE DE SYSTEME POLYAMIDE



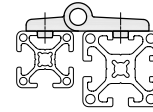
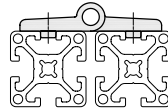
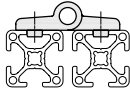
30

40

30 / 30

40 / 40

30 / 40



05.02301.00

05.02303.00

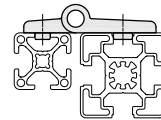
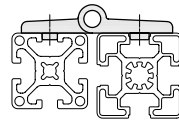
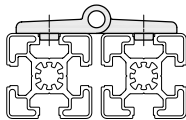
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45

45 / 45

40 / 45

30 / 45



05.02306.00

05.02305.00

05.02304.00

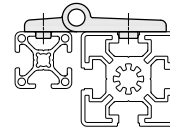
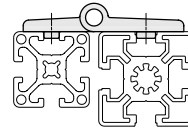
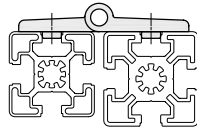
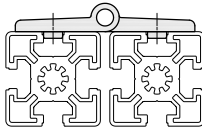
50

50 / 50

45 / 50

40 / 50

30 / 50



05.02310.00

05.02309.00

05.02308.00

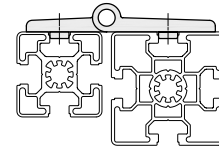
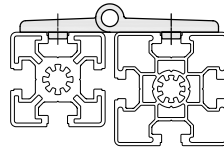
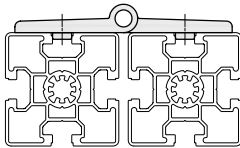
0502307.00

60

60 / 60

50 / 60

45 / 60



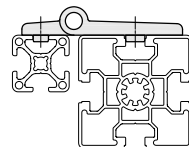
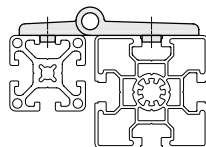
05.02315.00

05.02314.00

05.02313.00

40 / 60

30 / 60

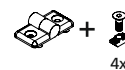


05.02312.00

05.02311.00



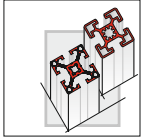
05.0xxxx.00



05.0xxxx.05

Technische Änderungen vorbehalten

8



# ALU-SCHARNIER-SYSTEM

## ALUMINIUM HINGE SYSTEM

### SYSTEME DE CHARNIERES ALU



#### Innovative Vorteile

- Kräftige und robuste Ausführung aus Strangpressprofil
- Leichtgängige Drehbewegung durch Gleitbuchsen
- Werkstoff: AlMgSi0,5
- Farbe: Natur eloxiert

Befestigungssatz bestehend aus:

- ISO 10642 M6
- Fixierbolzen
- Hammermutter M6

#### Innovative advantages

- Sturdy and rugged design made of extruded profile
- Slide bushing for easy running rotational movement
- Materials: AlMgSi0,5
- Colour: Natural-coloured aluminium, anodized

Fastening set consisting of:

- ISO 10642 M6
- Fastening bolts
- Hammer nut M6

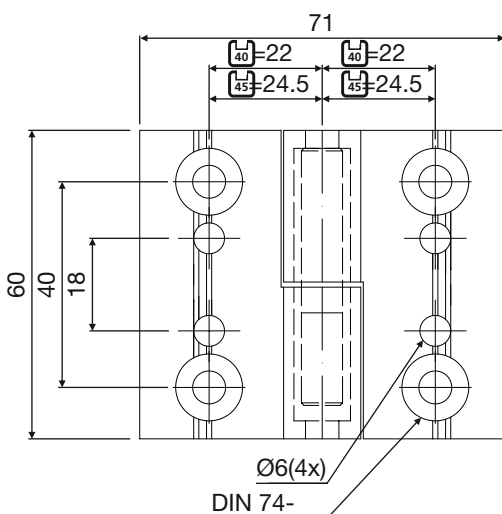
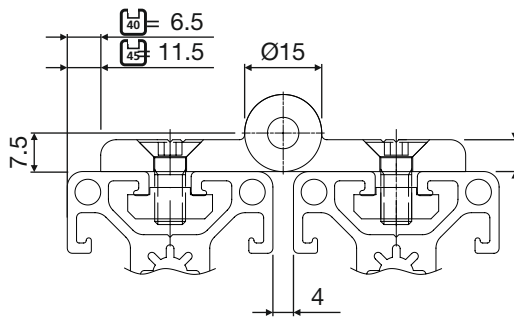
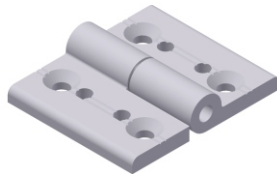
#### Atouts novateurs

- Modèle robuste en profilé extrudé
- Rotation aisée par douilles de glissement
- Matière: AlMgSi0,5
- Couleur: Aluminium anodisé naturelle

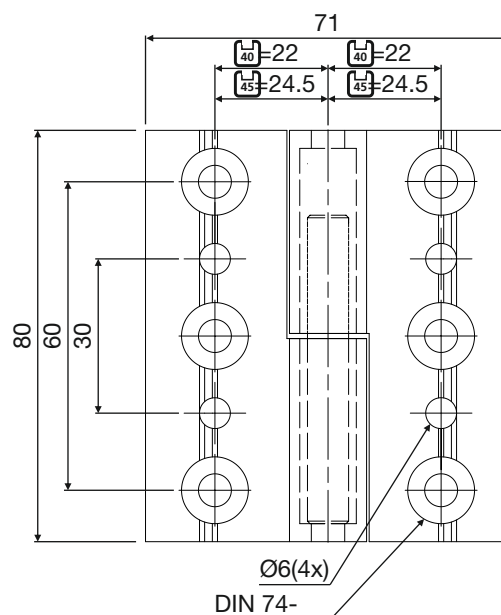
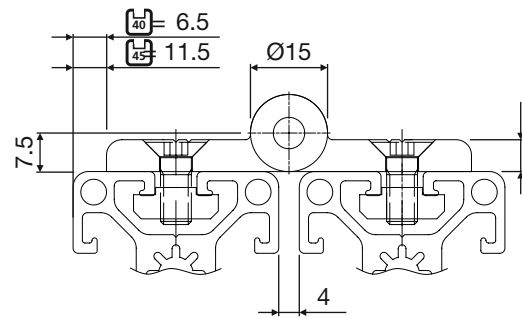
Kit de fixation comprenant:

- ISO 10642 M6
- Boulon de fixation
- Ecrou 1/4 de tour M6

**L=60**



**L=80**



Technische Änderungen vorbehalten

# ALU-SCHARNIER-SYSTEM

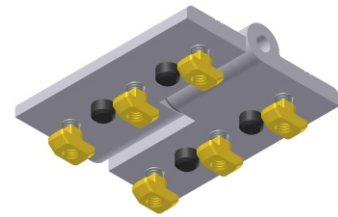
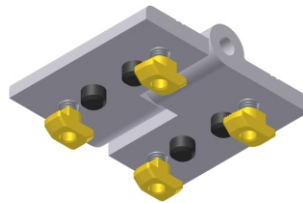
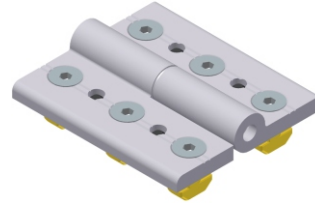
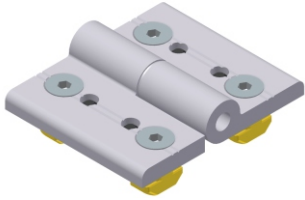
## ALUMINIUM HINGE SYSTEM

### SYSTEME DE CHARNIERES ALU



**L=60**

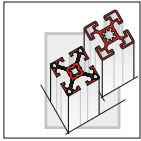
**L=80**



	<b>A</b>	<b>B</b>	<b>C</b>
	<p>Aushängbare Tür <b>LINKS / LINKS</b> Demountable door <b>LEFT / LEFT</b> Porte dégonnable <b>GAUCHE / GAUCHE</b></p> <p style="text-align: center;">L</p>	<p>Aushängbare Tür <b>RECHTS / RECHTS</b> Demountable door <b>RIGHT / RIGHT</b> Porte dégonnable <b>DROITE / DROITE</b></p> <p style="text-align: center;">L</p>	<p>Nicht aushängbare Tür, <b>LINKS / RECHTS</b> Non-demountable door <b>LEFT / RIGHT</b> Porte non dégonnable <b>GAUCHE / DROITE</b></p> <p style="text-align: center;">L</p>
<b>40 - 40</b> 	<p>60 <input type="text" value="05.01732.00"/></p> <p>80 <input type="text" value="05.01634.00"/></p> <p>inkl. Bef.satz <input type="text" value="xx.xxxxx.05"/></p>	<p>60 <input type="text" value="05.01733.00"/></p> <p>80 <input type="text" value="05.01632.00"/></p> <p>inkl. Bef.satz <input type="text" value="xx.xxxxx.05"/></p>	<b>C</b> = 1x <b>A</b> + 1x <b>B</b>
<b>45 - 40</b> 	<p>60 <input type="text" value="05.02152.00"/></p> <p>80 <input type="text" value="05.02154.00"/></p> <p>inkl. Bef.satz <input type="text" value="xx.xxxxx.05"/></p>	<p>60 <input type="text" value="05.02153.00"/></p> <p>80 <input type="text" value="05.02155.00"/></p> <p>inkl. Bef.satz <input type="text" value="xx.xxxxx.05"/></p>	<b>C</b> = 1x <b>A</b> + 1x <b>B</b>
<b>45 - 45</b> 	<p>60 <input type="text" value="05.02056.00"/></p> <p>80 <input type="text" value="05.02108.00"/></p> <p>inkl. Bef.satz <input type="text" value="xx.xxxxx.05"/></p>	<p>60 <input type="text" value="05.02057.00"/></p> <p>80 <input type="text" value="05.02109.00"/></p> <p>inkl. Bef.satz <input type="text" value="xx.xxxxx.05"/></p>	<b>C</b> = 1x <b>A</b> + 1x <b>B</b>

8

Technische Änderungen vorbehalten



# SCHARNIERLAPPENPROFILE

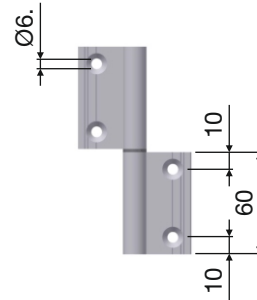
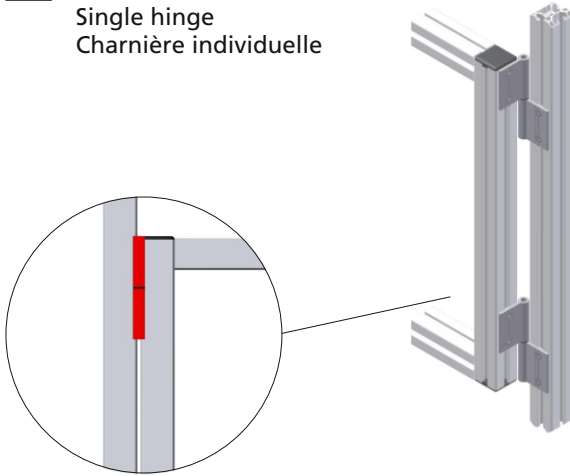
## HINGE FLAP PROFILES

### CHARNIERES INTERIEURES



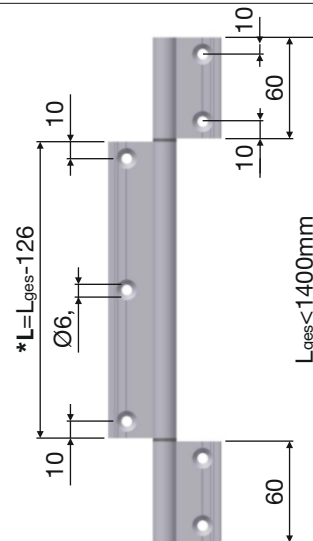
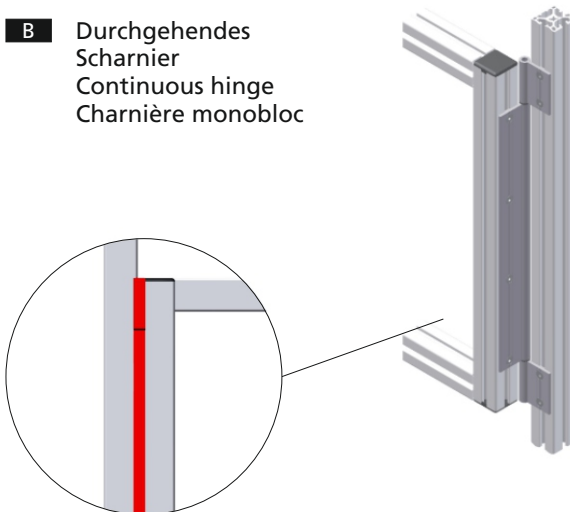
#### Typ A

- A** Einzelscharnier  
Single hinge  
Charnière individuelle



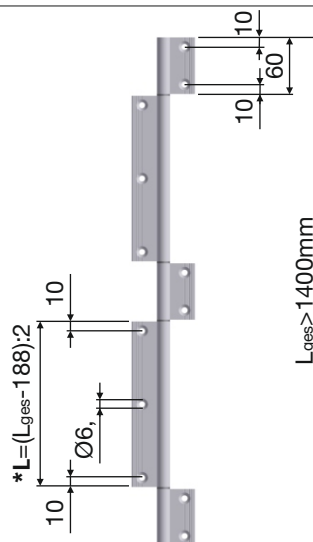
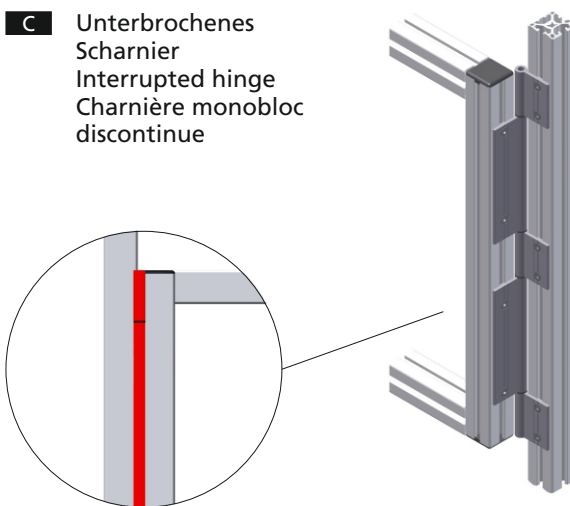
#### Typ B

- B** Durchgehendes Scharnier  
Continuous hinge  
Charnière monobloc



#### Typ C

- C** Unterbrochenes Scharnier  
Interrupted hinge  
Charnière monobloc discontinue



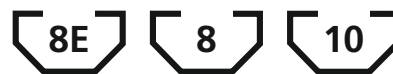
Technische Änderungen vorbehalten



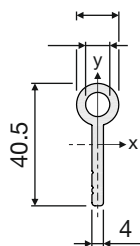
# SCHARNIERLAPPENPROFILE

## HINGE FLAP PROFILES

### CHARNIERE INTERIEURES



**30**

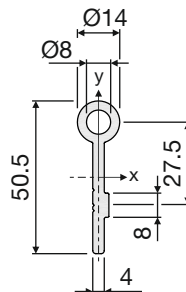


**05.01807.00**

M = 0,55 kg/m  
 $I_x = 3,04 \text{ cm}^4$   
 $W_x = 1,50 \text{ cm}^3$   
 $I_y = 0,18 \text{ cm}^4$   
 $W_y = 0,26 \text{ cm}^3$

PE (m)  
 3  
 Aluminium, eloxiert  
 Aluminium, anodized  
 Aluminium, anodisé

**40/45**



**05.02231.00**

M = 0,68 kg/m  
 $I_x = 5,92 \text{ cm}^4$   
 $W_x = 2,35 \text{ cm}^3$   
 $I_y = 0,19 \text{ cm}^4$   
 $W_y = 0,28 \text{ cm}^3$

PE (m)  
 6 / 60 / 120  
 Aluminium, eloxiert  
 Aluminium, anodized  
 Aluminium, anodisé

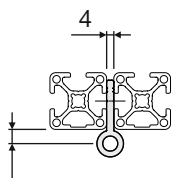
**Kunststoffring Ø14**  
 t= 1 mm, PA 6.6

**05.01876.00**

**Steckerbohrstift 8x80**

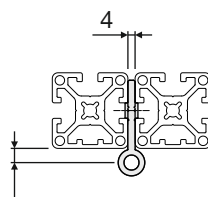
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**30**

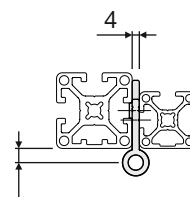


30 - 30

**40**



40 - 40



40 - 30

**A** 05.02283.05

**B** 05.02284.05

+ 1x 05.01807.50 \*L= mm

**C** 05.02285.05

+ 2x 05.01807.50 \*L= mm

**A** 05.02286.05

**B** 05.02287.05

+ 1x 05.02231.50 \*L= mm

**C** 05.02288.05

+ 2x 05.02231.50 \*L= mm

**A** 05.02289.05

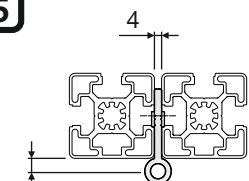
**B** 05.02290.05

+ 1x 05.01807.50 \*L= mm

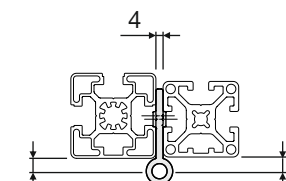
**C** 05.02291.05

+ 2x 05.01807.50 \*L= mm

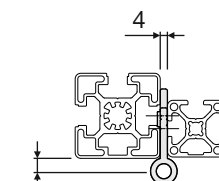
**45**



45 - 45



45 - 40



45 - 30

**A** 05.02292.05

**B** 05.02293.05

+ 1x 05.02231.51 \*L= mm

**C** 05.02294.05

+ 2x 05.02231.51 \*L= mm

**A** 05.02295.05

**B** 05.02296.05

+ 1x 05.02231.51 \*L= mm

**C** 05.02297.05

+ 2x 05.02231.51 \*L= mm

**A** 05.02298.05

**B** 05.02299.05

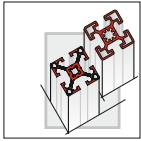
+ 1x 05.02231.51 \*L= mm

**C** 05.02300.05

+ 2x 05.02231.51 \*L= mm

Technische Änderungen vorbehalten

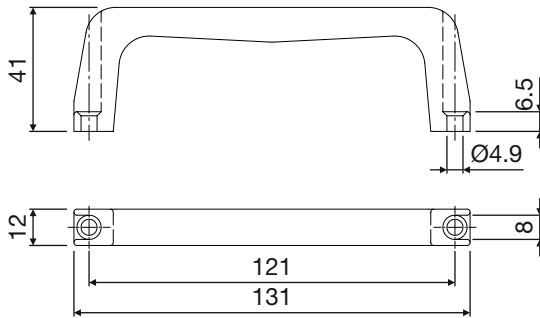
8



**BÜGELGRIFFE**  
**BOW HANDLES**  
**POIGNEES ETRIER**



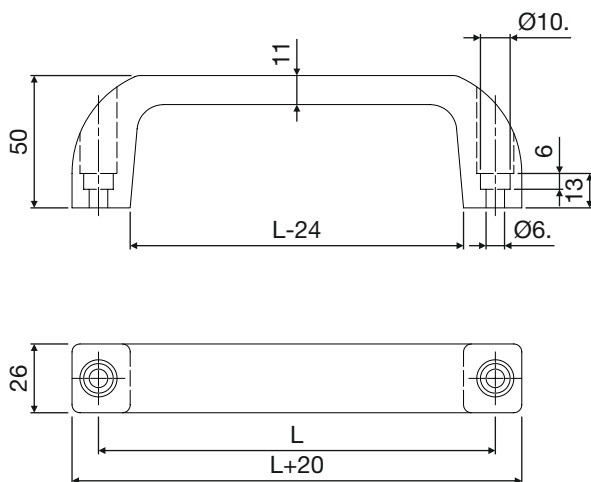
**L=121**



PA 6  
 schwarz  
 black  
 noire

**05.01665.00**

**L=122/L=150**



PA 6  
 schwarz  
 black  
 noire

**L=122**

			+	<b>05.01223.00</b>
			+  2x	<b>05.01223.13</b>
			+  2x	<b>05.01223.11</b>
			+  2x	<b>05.01223.12</b>

**L=150**

			+	<b>05.01224.00</b>
			+  2x	<b>05.01224.13</b>
			+  2x	<b>05.01224.11</b>
			+  2x	<b>05.01224.12</b>

Technische Änderungen vorbehalten

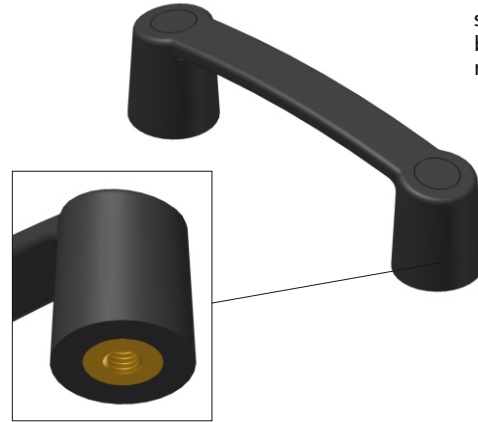
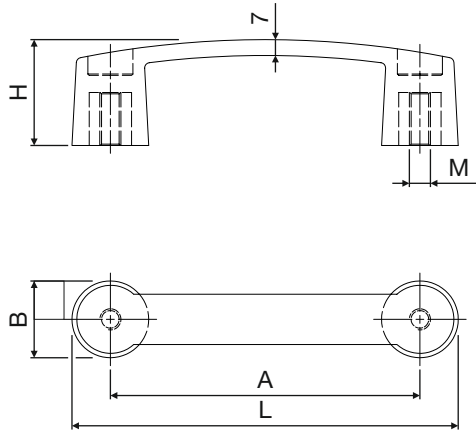
# BÜGELGRIFFE

## BOW HANDLES

### POIGNEES ETRIER



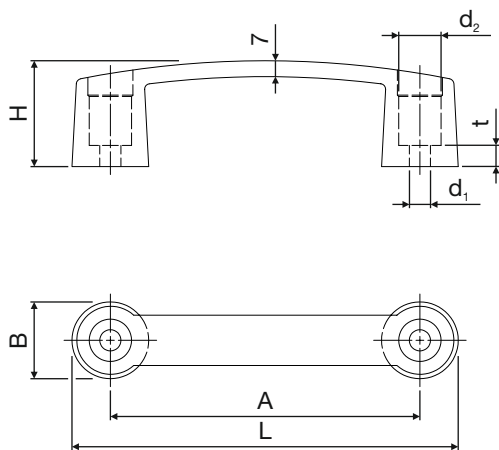
#### Typ A



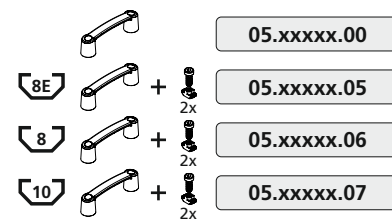
PA 6  
schwarz  
black  
noire

L	A	B	H	M	
120	94	26	35	M6	05.01667.00
145	117	29	40	M8	05.01668.00
163	132	31	45	M8	05.01669.00
213	180	35	50	M8	05.01670.00

#### Typ B



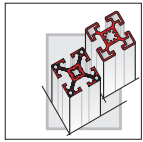
PA 6  
schwarz  
black  
noire



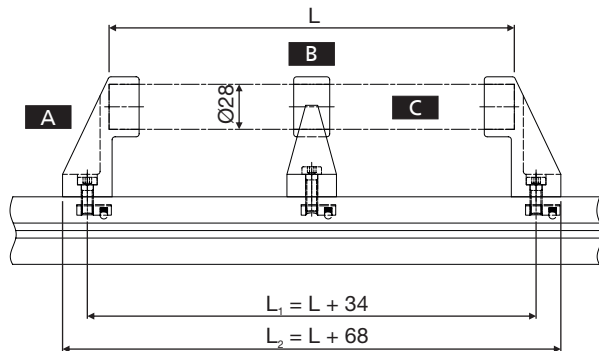
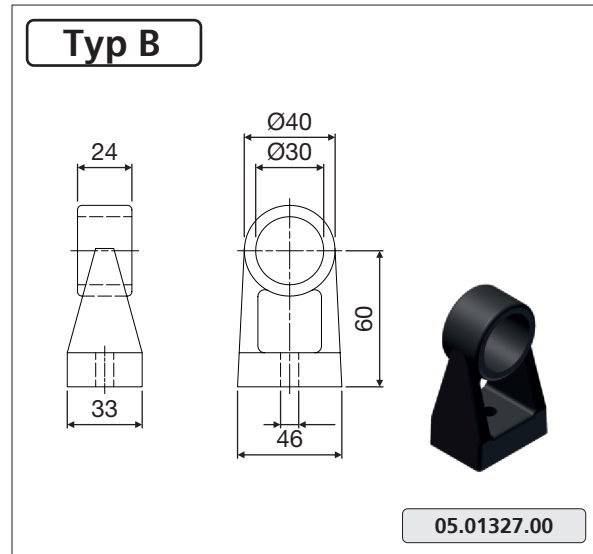
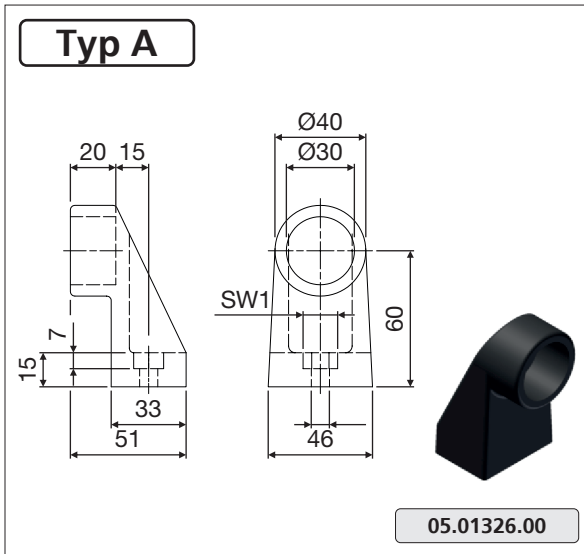
L	A	B	H	d <sub>1</sub>	d <sub>2</sub>	t	
120	94	26	35	Ø6.5	Ø12.5	4	05.01671.xx
145	117	29	40	Ø8.5	Ø16.5	8	05.01672.xx
163	132	31	45	Ø8.5	Ø16.5	9	05.01673.xx
213	180	35	50	Ø8.5	Ø16.5	12	05.01674.xx

8

Technische Änderungen vorbehalten



**HANDGRIFF VARIABLE GRIFFLÄNGEN**  
**HANDLES VARIABLE HANDLE LENGTH**  
**POIGNEE TUBULAIRE VARIABLE**



**C** L = 266 mm 05.01328.01

L = 366 mm 05.01328.02

L = 466 mm 05.01328.03

L = 566 mm 05.01328.04

L = 666 mm 05.01328.05

L = 766 mm 05.01328.06

L = 2500 mm 05.01328.00

**Ausführung:**

- A** Griff: Endstück  
Werkstoff: PA  
Farbe: Schwarz
- B** Griff: Mittenstück  
Werkstück: PA  
Farbe: Schwarz
- Zu empfehlen ab  
L=566 mm
- C** Stahlrohr  
Werkstoff: PVC ummantelt  
Farbe: Schwarz

**Design:**

- A** Handle: End piece  
Material: PA  
Colour: Black
- B** Handle: Centre piece  
Material: PA  
Colour: Black
- Recommended as of  
L= 566 mm
- C** Steel pipe  
Material: PVC sheathed  
Colour: Black

**Versions:**

- A** Poignée : Extrémité  
Matière : PA  
Couleur : Noir
- B** Poignée : Pièce de centre  
Matière : PA  
Couleur : Noir
- Recommandé à partir  
L= 566 mm
- C** Tube acier  
Matière : PVC gainé  
Couleur : Noir

Technische Änderungen vorbehalten

# GRIFFPROFIL

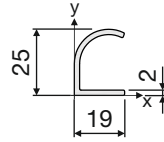
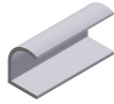
## HANDLE PROFILE

## PROFILE POIGNEE



### Griffprofil

Handle profile · Profilé poignée



05.01032.00

M = 0,29 kg/m

$I_x = 2,28 \text{ cm}^4$

$W_x = 1,82 \text{ cm}^3$

$I_y = 0,91 \text{ cm}^4$

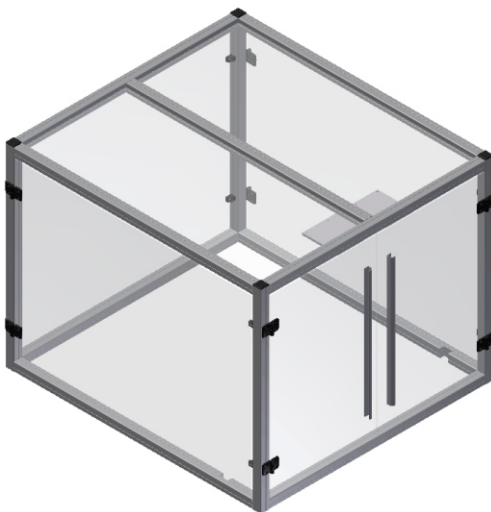
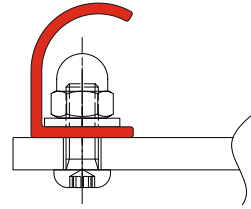
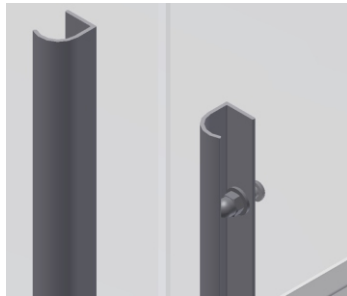
$W_y = 0,47 \text{ cm}^3$

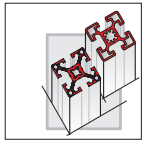
PE (m)

6 / 24 / 48 / 72

### Anwendung

Application · Application

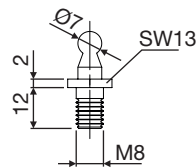
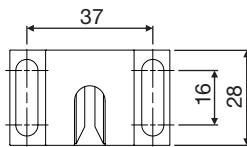
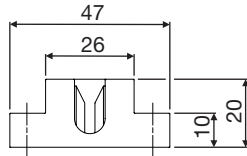
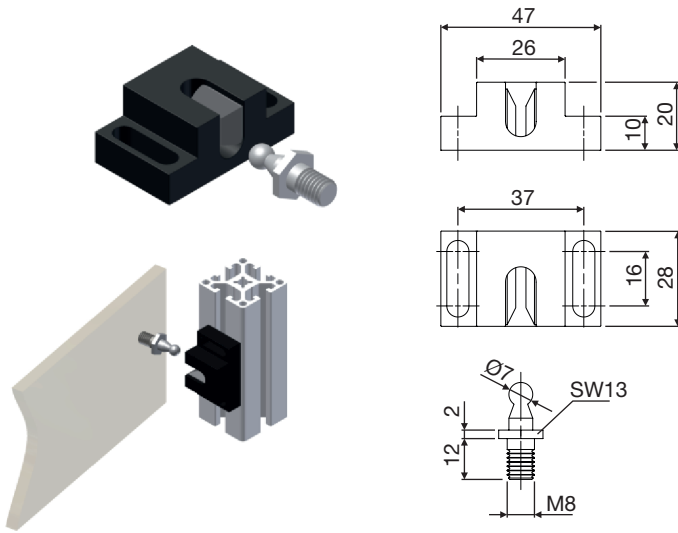




# KUGELSCHNÄPPER

## BALL CLIPS

### TAQUET A BILLE

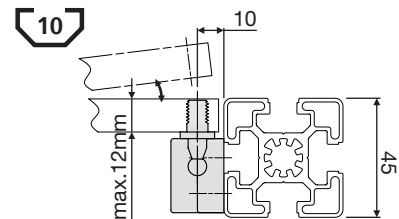
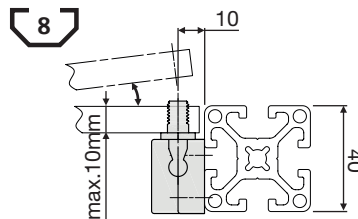
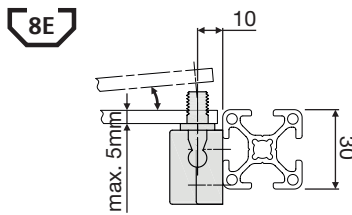


05.02316.00

PA schwarz, glasfaserverstärkt,  
Verschluss von Schiebe- und  
Schwenktüren

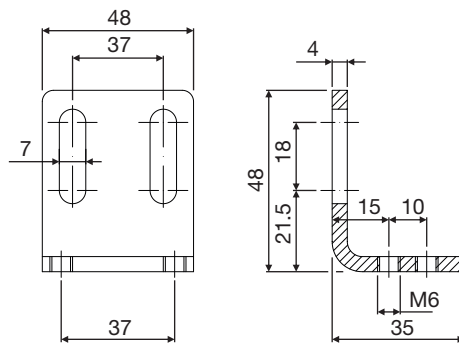
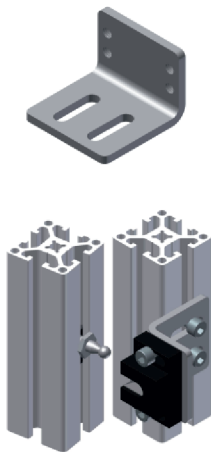
PA black, fibreglass reinforced,  
Closure of sliding and swing  
doors

PA noir, renforcé fibres de verre  
Fermeture de portes  
coulissantes et battantes



## Winkel

Bracket · Equerre

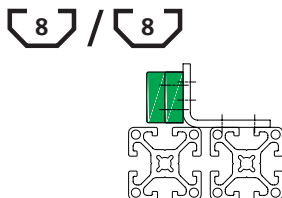


05.02317.00

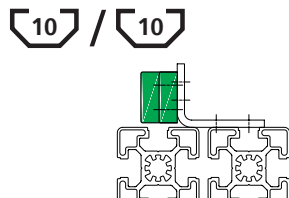
St, verzinkt  
Der Befestigungswinkel ist in  
den Profilreihen 40, 45 und  
50 universell einsetzbar

Steel, galvanized  
The fastening bracket can be  
used universally in the profile  
series 40, 45 and 50

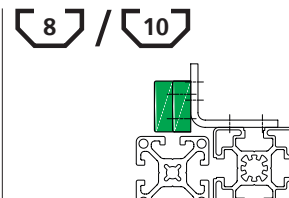
Acier, zingué  
L'équerre de fixation s'utilise  
de manière universelle pour  
les séries de profils 40, 45 et  
50



+ 4x + 3x 05.02317.11



+ 4x + 3x 05.02317.12



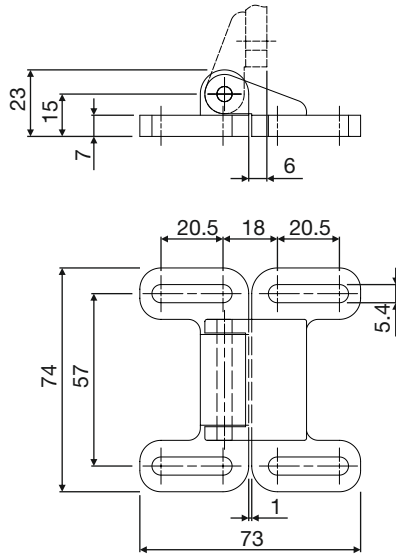
+ 4x + 3x 05.02317.13

Technische Änderungen vorbehalten

# DOPPELKUGELSCHNÄPPER PA

## TWIN BALL CLIP PA

### FERMETURE A BILLES PA



**05.02318.00**

PA, glasfaserverstärkt  
Universeller Schnellverschluss  
für Klappen, Schiebe- und  
Schwenktüren mit und ohne  
Rahmen

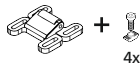
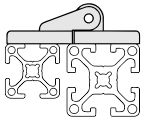
PA, fibreglass reinforced  
Universal quick closure for  
flap, sliding and swing doors  
with and without frame

PA, renforcé fibres de verre  
Blocage et butée pour porte  
coulissante ou battante avec  
ou sans encadrement

### Befestigung

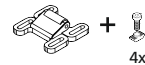
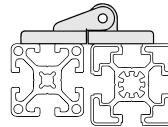
Fastening · Fixation

30 / 40



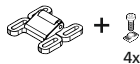
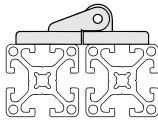
**05.02318.11**

40 / 45



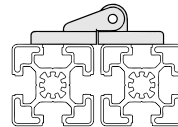
**05.02318.13**

40 / 40



**05.02318.12**

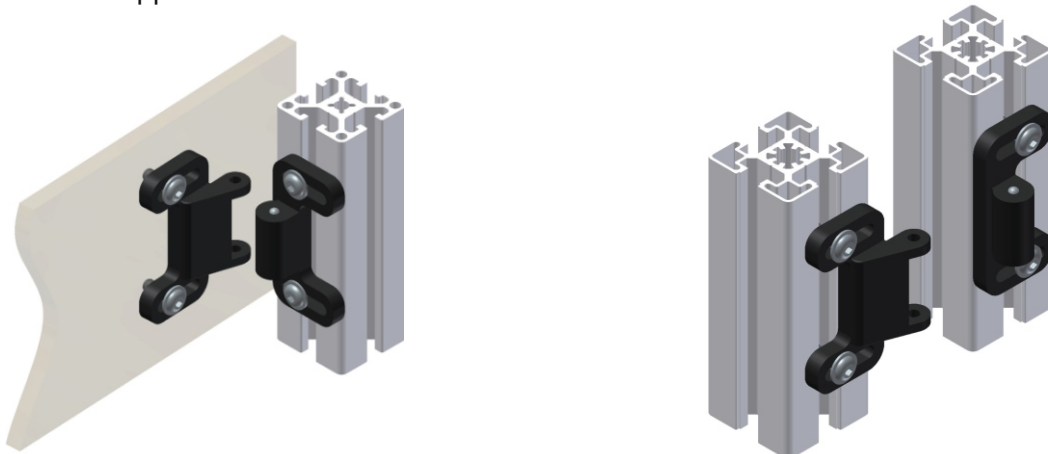
45 / 45



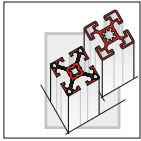
**05.02318.14**

### Anwendung

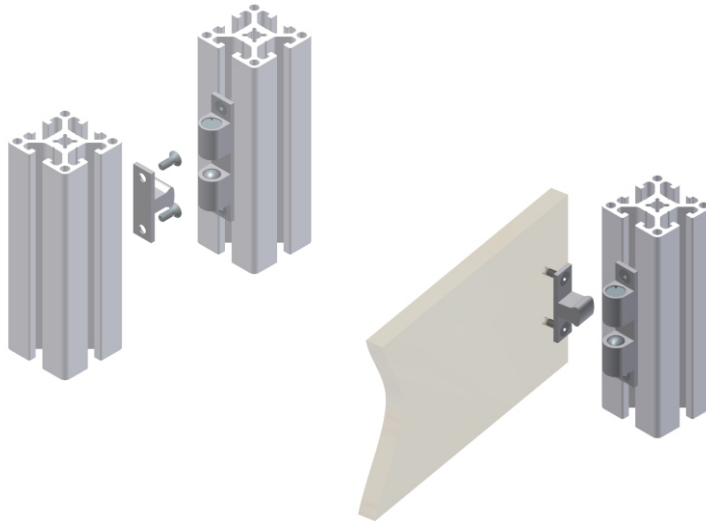
Application · Application



Technische Änderungen vorbehalten



**DOPPELKUGELSCHNÄPPER MS**  
**TWIN BALL CLIP MS**  
**FERMETURE A BILLES MS**



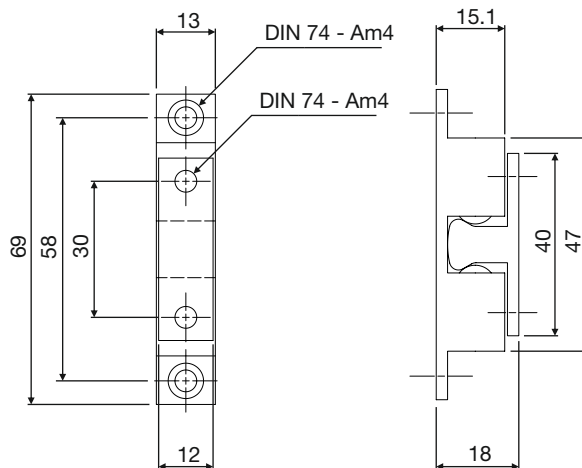
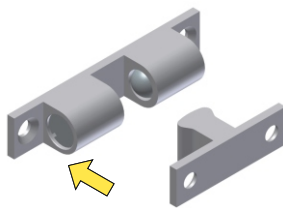
**05.02319.00**

Messing, verchromt,  
 Einrastdruck verstellbar, zwei  
 Anwendungsmöglichkeiten  
 0° / 90°

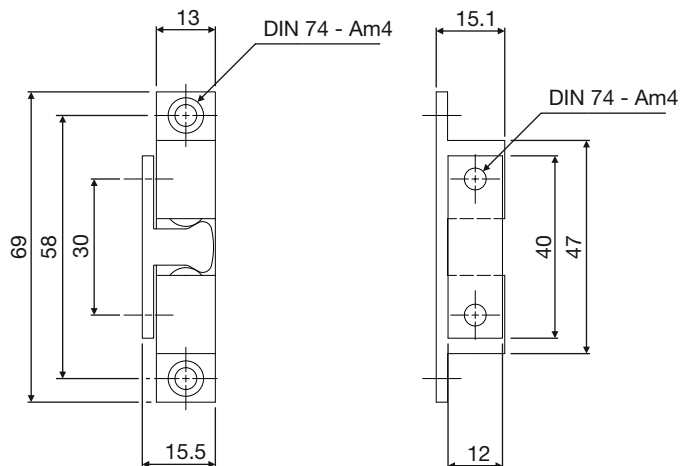
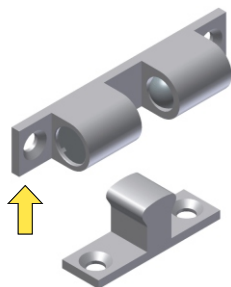
Brass, chrome-plated  
 Adjustable clipping pressure,  
 two application possibilities  
 0° / 90°

Laiton, chromé  
 Pression d'encliquetement  
 réglable, deux possibilités  
 d'application  
 0° / 90°

**0°**



**90°**



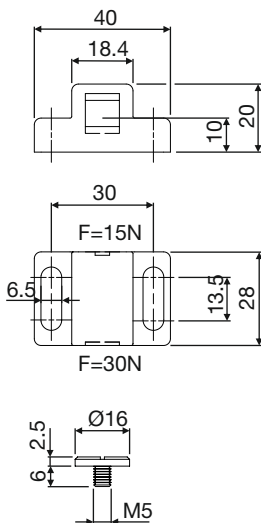
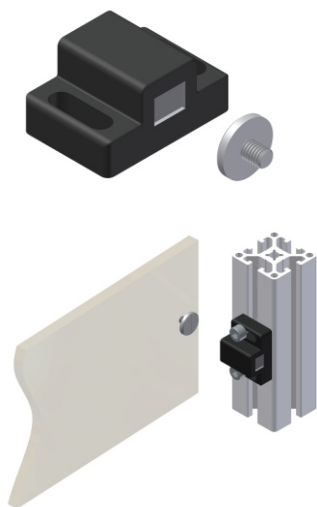
Technische Änderungen vorbehalten



# MAGNETVERSCHLUSS PA

## MAGNETIC CLOSURE PA

### VERROUILLAGE MAGNETIQUE PA

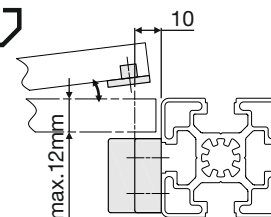
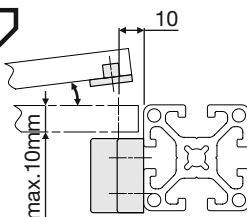
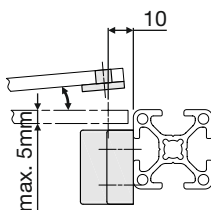


**05.01650.00**

PA, glasfaserverstärkt  
Geeignet zur Zuhaltung von  
Schiebe- und Schwenktüren;  
unterschiedliche Haltekraft  
des Magnetverschlusses

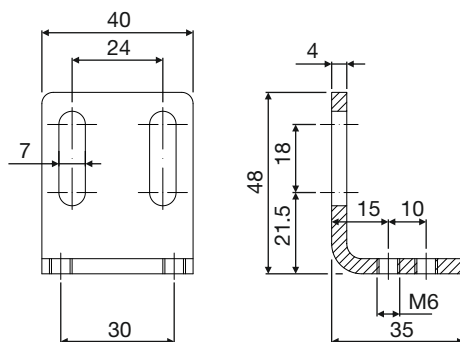
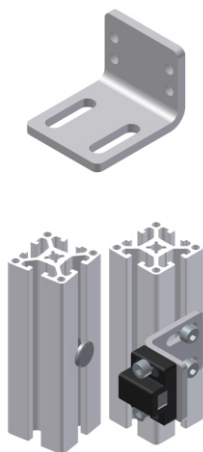
PA, fibreglass reinforced  
Suitable for closure of sliding  
and swing doors; variable  
retaining force of magnetic  
closure

PA, renforcé fibres de verre  
Adapté pour maintenir  
fermées les portes coulissantes  
et battantes; deux forces de  
résistance



## Winkel

Bracket · Equerre

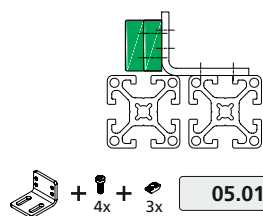


**05.01651.00**

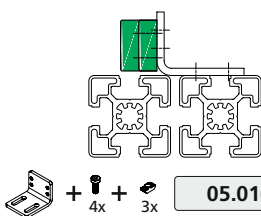
St, verzinkt  
Der Befestigungswinkel ist in  
den Profilreihen 40,45 und  
50 universell einsetzbar

Steel, galvanized  
The fastening bracket can be  
used universally in the profile  
series 40, 45 and 50

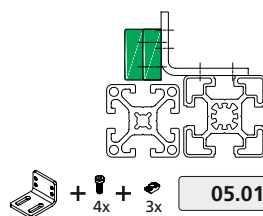
Acier, zingué  
L'équerre de fixation convient  
de manière universelle pour  
les séries de profilés 40, 45 et  
50



**05.01651.11**

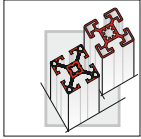


**05.01651.12**

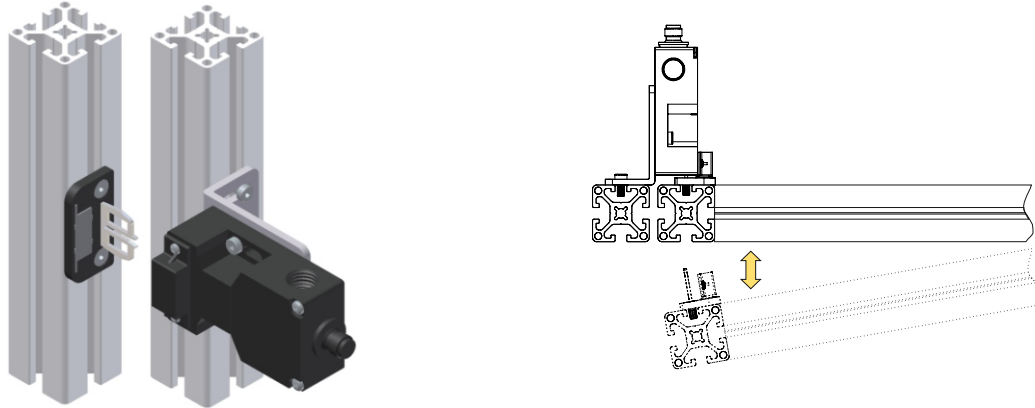


**05.01651.13**

Technische Änderungen vorbehalten



# SICHERHEITSSCHALTER SAFETY SWITCH CONTACTEUR DE SECURITE



### Innovative Vorteile

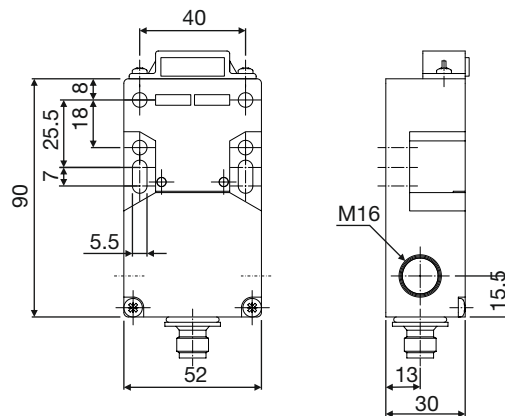
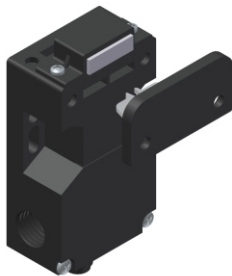
- Zum sicheren Verschließen von Schutzgittern, Hauben und Türen um die erforderliche Betriebssicherheit zu gewährleisten
- Durch Langloch universelle Anordnung möglich
- Einsatz in der Profilsreihe 40,45 und 50 möglich

### Innovative advantages

- For secure fastening of safety screens, hoods and doors in order to ensure the required operating safety
- Oblong hole for universal application
- Can be used in profile series 40, 45 and 50

### Atouts novateurs

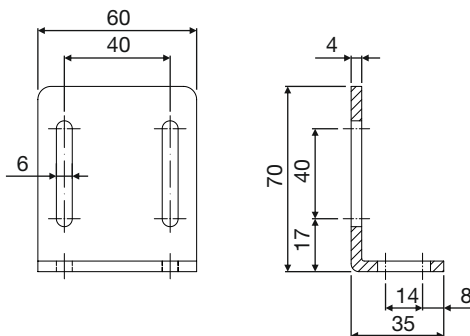
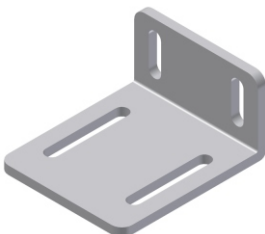
- Pour la fermeture sécurisée de portes et de carters de protection
- Par un long trou l'ordre universel possible
- Application possible pour les séries de profilés 40, 45 et 50



05.02050.00

### Winkel

Brackets · Équerres



05.02054.00



05.02054.11



05.02054.12



05.02054.13

Technische Änderungen vorbehalten

# POTENTIALAUSGLEICH

## POTENTIAL EQUALIZER

### EQUALISEUR POTENTIEL



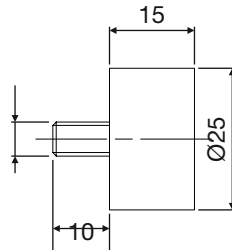
### Potentialausgleich

05.01542.00



- Bestehend aus:
- |                |         |
|----------------|---------|
| Hammerschraube | St, vz. |
| ISO-Scheibe    | St, vz. |
| Zahnscheibe    | St, vz. |
| Flanschmutter  | St, vz. |
| Ringkabelschuh | St      |
- Consisting of:
- |                   |           |
|-------------------|-----------|
| T-Bolt            | St, galv. |
| ISO washer        | St, galv. |
| Tooth washer      | St, galv. |
| Flange nut        | St, galv. |
| Crimp type socket | St        |
- Comprenant:
- |                 |           |
|-----------------|-----------|
| Vis 1/4 de tour | Ac, zing. |
| Rondelle        | Ac, zing. |
| Disque denté    | Ac, zing. |
| Ecrou           | Ac, zing. |
| Cosse de câble  | Ac        |

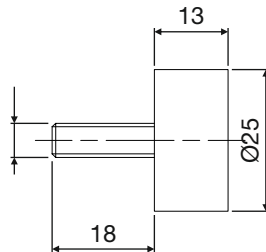
### Typ A



05.01510.00

- Gummi, schwarz  
50-55 Shore
- Rubber, black  
50-55 Shore
- Caoutchouc, noir  
50-55 Shore

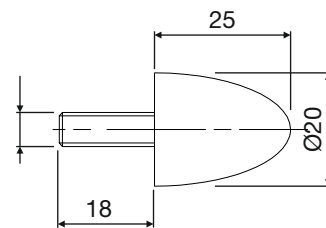
### Typ B



05.01511.00

- Gummi, schwarz  
50-55 Shore
- Rubber, black  
50-55 Shore
- Caoutchouc, noir  
50-55 Shore

### Typ C

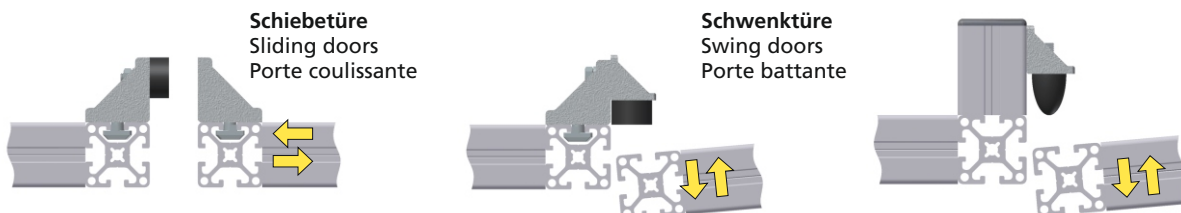


05.01512.00

- Gummi, schwarz  
50-55 Shore
- Rubber, black  
50-55 Shore
- Caoutchouc, noir  
50-55 Shore

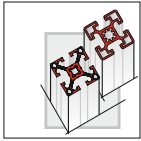
### Anwendung

Application · Application



Technische Änderungen vorbehalten



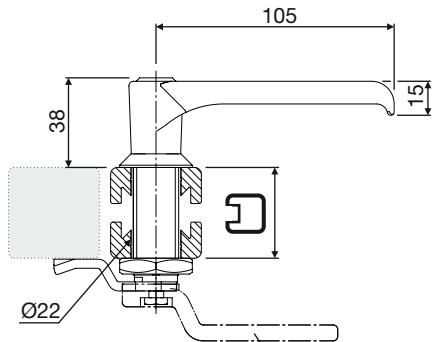


# GRIFFE, SCHLÖSSER HANDLES, LOCKS POIGNEES, SERRURES



## Klinkengriff

Latch handle · Poignée bec de cane



siehe Notgriff  
see emergency handle  
voir poignée d'urgence

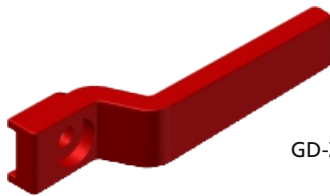


- 05.02060.00
- 05.02062.00
- 05.02065.00

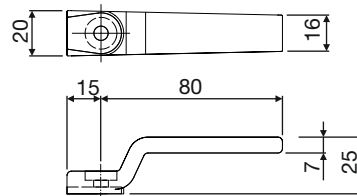
- 05.02061.00
- 05.02063.00
- 05.02066.00

## Notgriff

Emergency handle · Poignée d'urgence



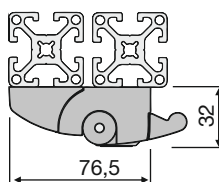
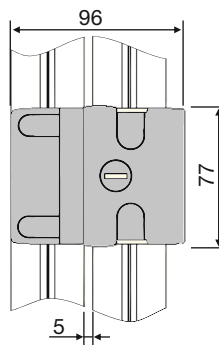
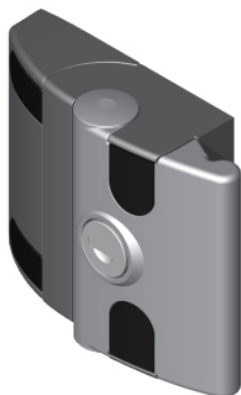
GD-Zn, RAL 3032



05.02064.00

## Fallenverschluss

Lock · Bloc serrure



05.02133.00

Aluminiumdruckguss,  
schwarz, pulverbeschichtet

Die-cast aluminium,  
black powder cated

Aluminium,  
peinture noire

Fallenverschluss mit Schloss,  
gleichschlieBend

Lock for uniform locking

Bloc serrure  
pour portes battantes

Technische Änderungen vorbehalten

# KNIEHEBELVERSCHLUSS

## TOGGLE CATCH

### FERMETURE A GENOUILLERE



#### Innovative Vorteile:

- Für Türen und Fenster
- Mit Anpressdruck schließbar

#### Innovative advantages:

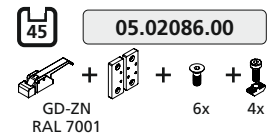
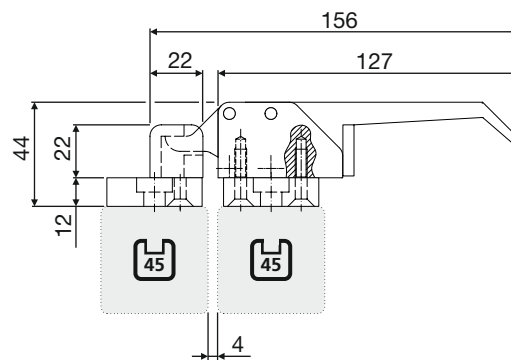
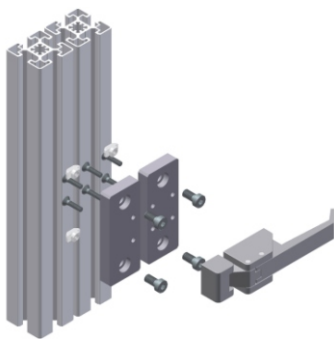
- For doors and windows
- Lockable with pressure

#### Atouts novateurs:

- Pour portes et fenetres
- Fermable avec pression

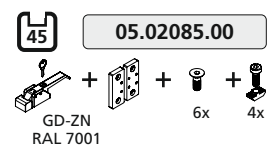
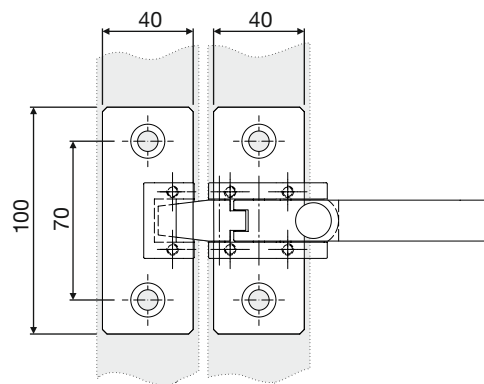
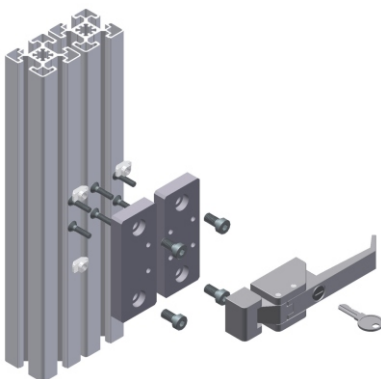
### ohne Schloss

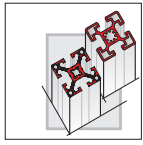
without lock · sans serrure



### mit Schloss

with lock · avec serrure



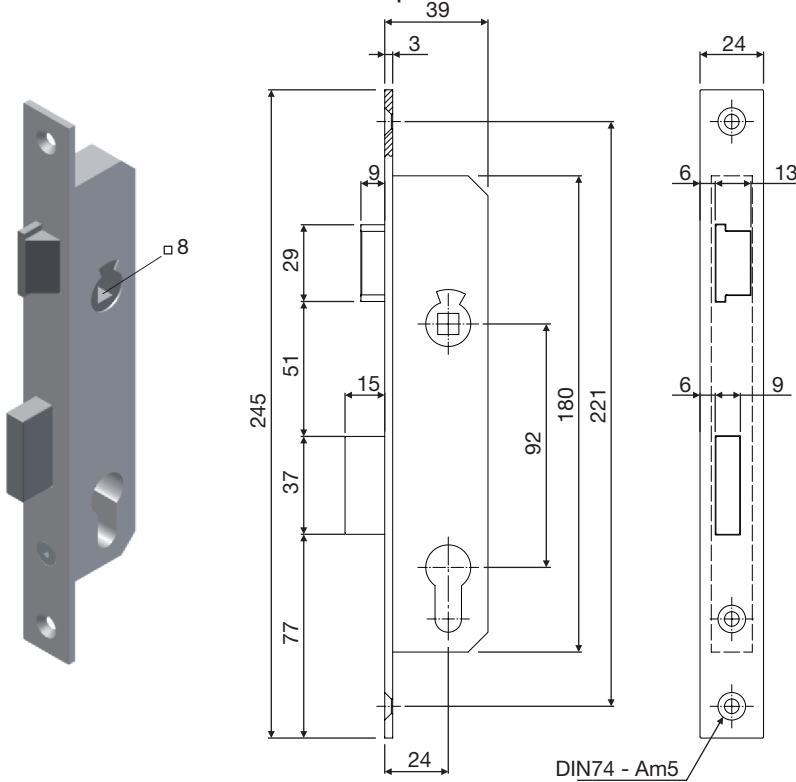


# TÜRSCHLOSS DOOR LOCK SERRURE



## Einsteckschloss

Insert lock · Serrure enfichable de porte battante



**Ausführung rechts**  
Design right  
Version droite

05.02320.00

**Ausführung links**  
Design left  
Version gauche

05.02320.50

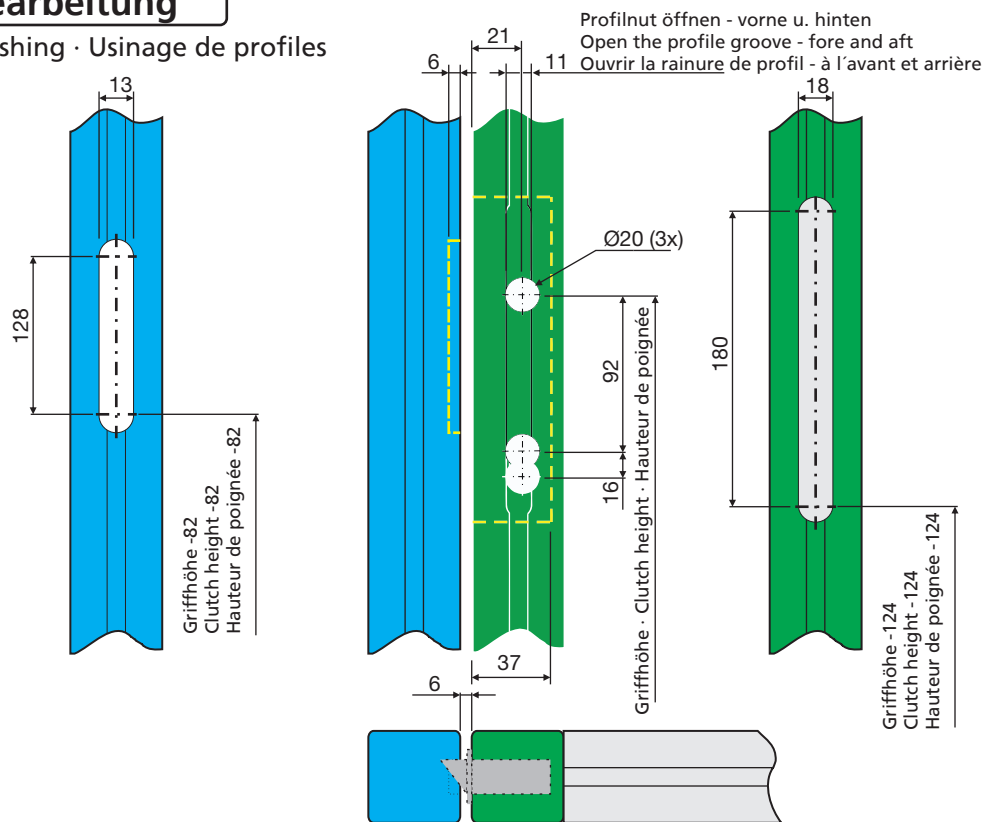
Einsteckschloss, Stahl vz.  
Für Schließzylinder von  
Schwenktüren mit  
Profilrahmen aus Profil 40x40  
und 40x80

Insert lock, steel galvanized  
For locking cylinder for swing  
doors with profile frame  
made of 40x40 or 40x80  
profile

Serrure enfichable, acier  
Zingué avec cylindre pour  
portes battantes avec cadre  
en profile 40x40 ou 40x80

## Profilbearbeitung

Profile finishing · Usinage de profiles



Technische Änderungen vorbehalten

# TÜRSCHLOSS DOOR LOCK SERRURE



## Schiebetürschloss

Sliding door lock · Serrure portes coulissantes



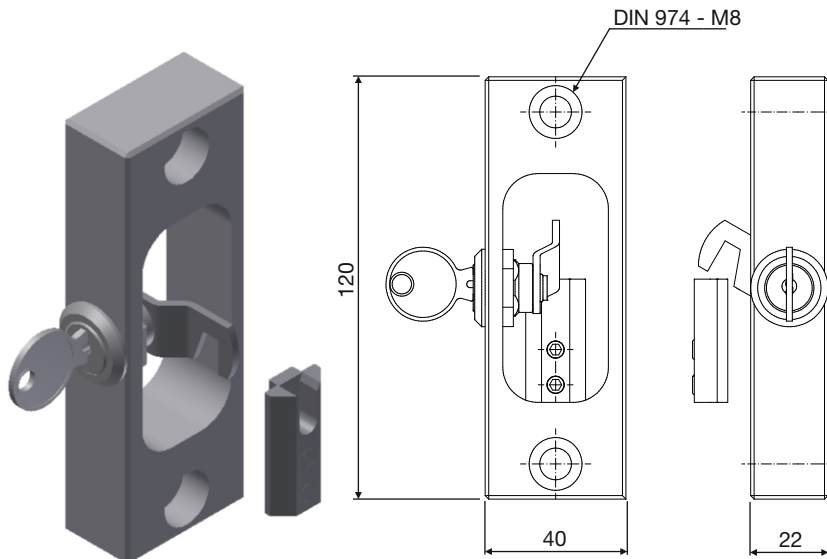
links

05.02394.00



rechts

05.02394.10



Schiebetürschloss,  
Alu, eloxiert E6ev1, mit  
Drehriegel; für Schiebetüren  
mit Profilrahmen aus Profil  
40x40

Insert door lock,  
Aluminium, anodized, with  
locking cylinder; for sliding  
doors with profile frame  
made of 40x40 profile

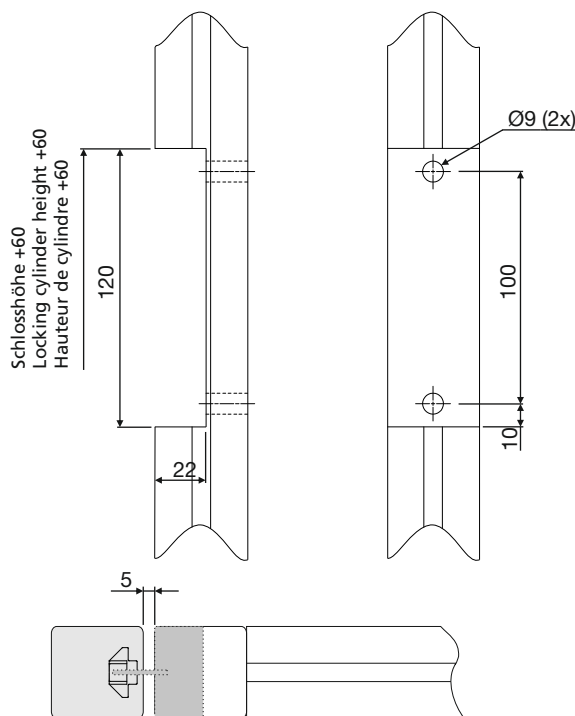
Serrure enfichable de porte  
coulissante,  
Alu, anodisé, avec cylindre;  
pour portes coulissantes avec  
cadre en profil 40x40

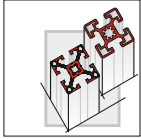
**Ausführung rechts**  
Design right  
Version droite

**Ausführung links**  
Design left  
Version gauche

## Profilbearbeitung

Profile finishing · Usinage de profiles





# TÜRSCHLOSS ZUBEHÖR

## DOOR LOCK ACCESSORIES

### SERRURE ACCESSOIRE



#### Innovative Vorteile:

- Individuelle Auswahl und Kombinationen
- Einheitliches System
- Komplette Serie aus Aluminium, eloxiert
- Elemente sind für Schiebetüren geeignet

#### Innovative advantages

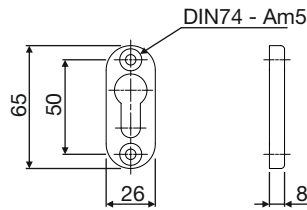
- Individual choice and combinations
- Standard system
- Complete series made of aluminium, anodised
- Elements suitable for swing and sliding doors

#### Atouts novateurs

- Choix individuel et combinaison
- Système unitaire
- Série complète en aluminium anodisé
- Les éléments sont adaptés pour les portes battantes

### Schlüsselschild

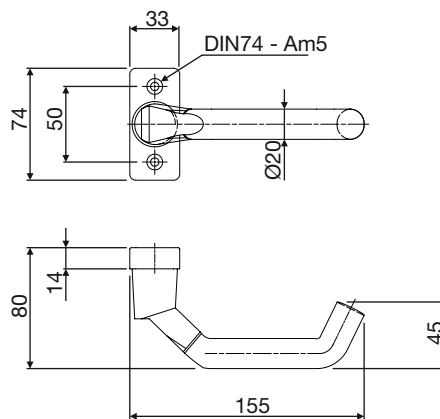
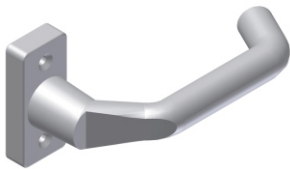
Escutcheon · Ecusson



05.02322.00

### Türdrücker

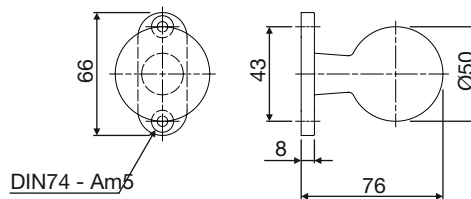
Door handle · Poignée de porte



05.02323.00

### Türknoopf Ø50, drehbar

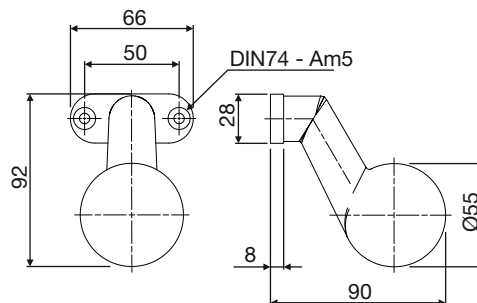
Door knob Ø50, turnable · Bouton de porte Ø50, tournant



05.02324.00

### Türknoopf Ø55, starr

Door knob Ø55, rigid · Bouton de porte Ø55, fixe



05.02325.00


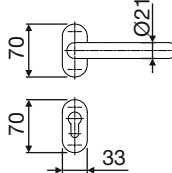
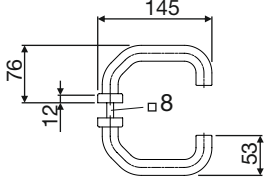

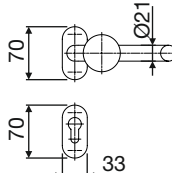
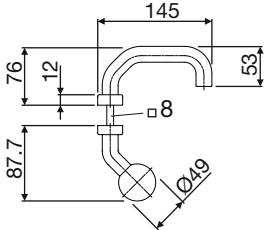

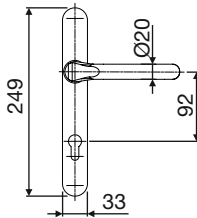
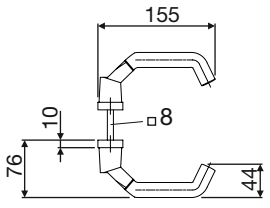

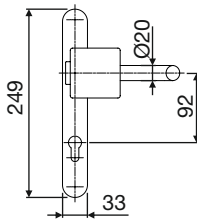
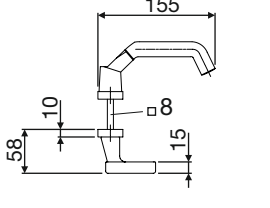


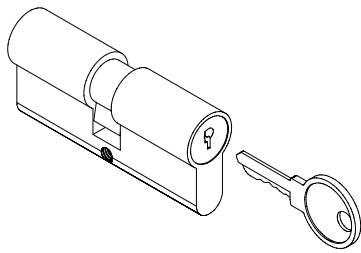
# TÜRSCHLOSS KOMPLETTE GARNITUR

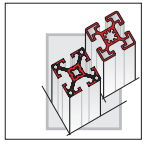
## DOOR LOCK FITTINGS COMPLETE

### SERRURE KIT COMPLET



<p><b>Typ 1</b></p> 			<ul style="list-style-type: none"> <li>· ohne Schließzylinder</li> <li>· without lock cylinder</li> <li>· sans cylindre de serrure</li> </ul> <p><b>05.02326.00</b></p>
<p><b>Typ 2</b></p> 			<ul style="list-style-type: none"> <li>· ohne Schließzylinder</li> <li>· without lock cylinder</li> <li>· sans cylindre de serrure</li> </ul> <p><b>05.02327.00</b></p>
<p><b>Typ 3</b></p> 			<ul style="list-style-type: none"> <li>· ohne Schließzylinder</li> <li>· without lock cylinder</li> <li>· sans cylindre de serrure</li> </ul> <p><b>05.02328.00</b></p>
<p><b>Typ 4</b></p> 			<ul style="list-style-type: none"> <li>· ohne Schließzylinder</li> <li>· without lock cylinder</li> <li>· sans cylindre de serrure</li> </ul> <p><b>05.02329.00</b></p>

<p><b>Schließzylinder</b> Locking cylinder · Cylindre enfichable</p> <p>Schließzylinder für Schwenktüren mit Profilrahmen aus Profil 40x40 und 40x80</p> <p>Locking cylinder for swing doors with profile frame made of 40x40 or 40x80 profile</p> <p>Serrure enfichable avec cylindre pour portes battantes avec cadre en profile 40x40 ou 40x80</p>		<ul style="list-style-type: none"> <li>· gleichschließend</li> <li>· simultaneous locking</li> <li>· s'entrouvrant</li> </ul> <p><b>05.02330.00</b></p> <ul style="list-style-type: none"> <li>· verschieden schließend</li> <li>· differently keyed</li> <li>· clé différente</li> </ul> <p><b>05.02331.00</b></p>
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# SCHIEBETÜRPROFIL

## SLIDING DOOR PROFILE

### PROFILE DE PORTE COULISSANTE



**Merkmale:**

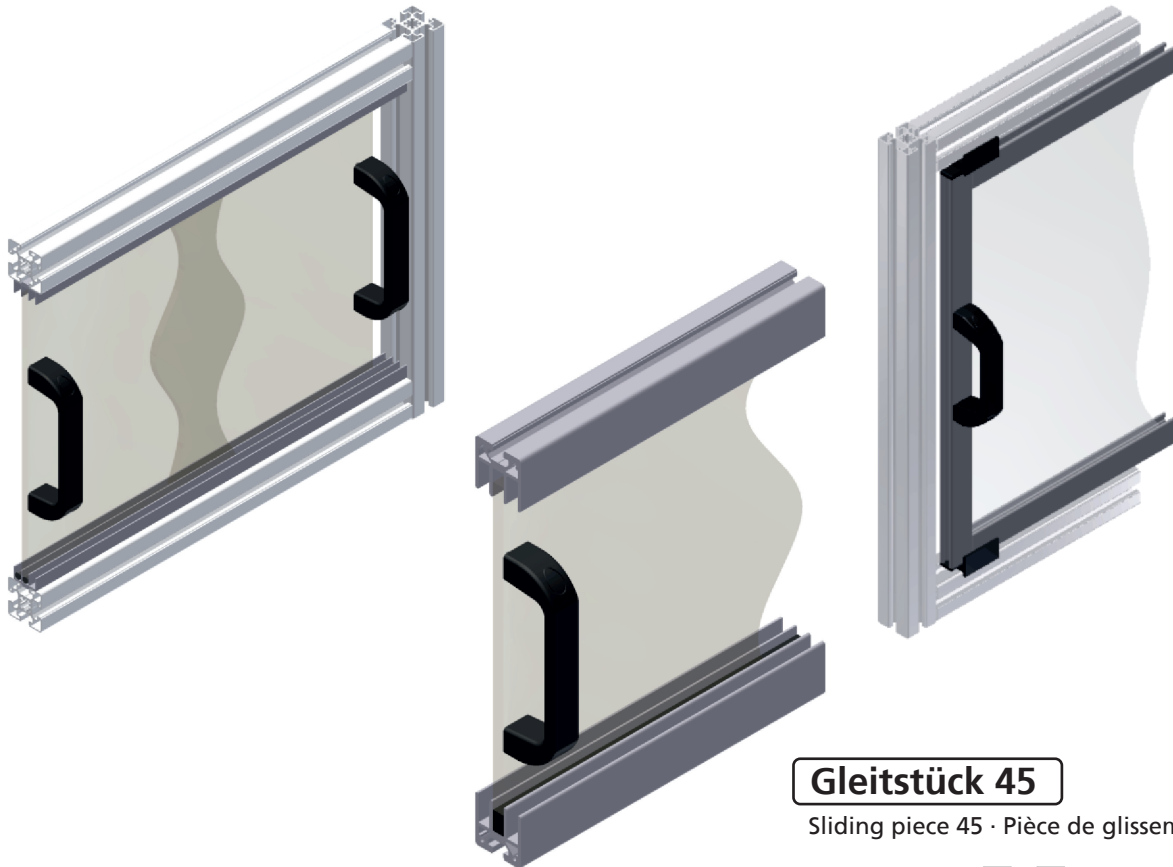
Schiebetüren und -fenster sichern Maschinen und Einrichtungen und schützen vor Staub und Schmutz.

**Characteristics:**

Sliding doors and windows safeguard machines and equipment and protect against dust and dirt.

**Caractéristique:**

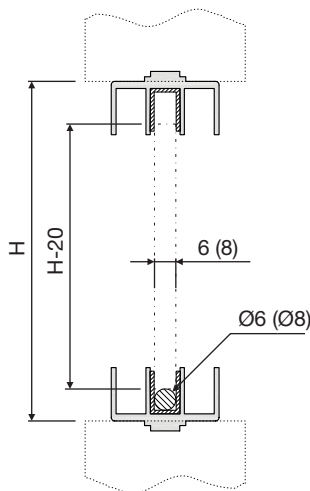
Les portes et fenêtres coulissantes protègent les machines et installations des poussières et saletés.



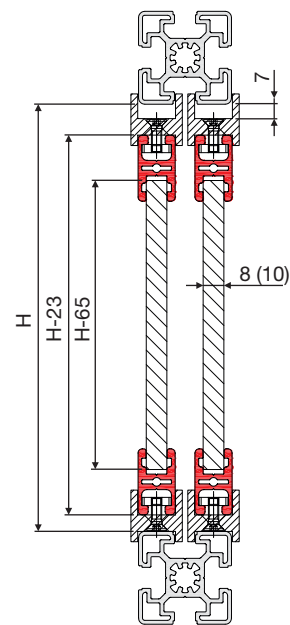
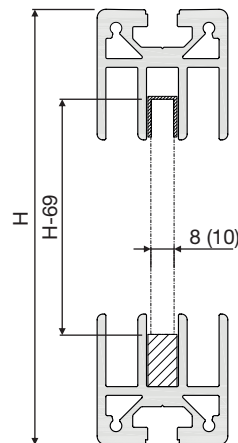
**Gleitstück 45**

Sliding piece 45 · Pièce de glissement 45

**30x15**



**45x45**



Technische Änderungen vorbehalten

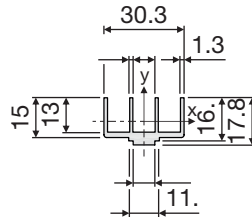
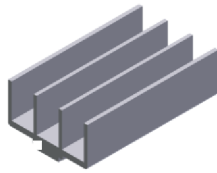
# SCHIEBETÜRPROFIL

## SLIDING DOOR PROFILE

### PROFILE DE PORTE COULISSANTE



**30x15**

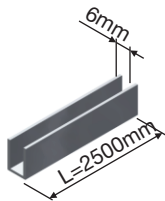


**05.01048.00**

M = 0,42 kg/m

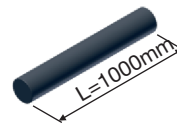
PE (m)  
6

Aluminium, eloxiert  
Aluminium, anodized  
Aluminium, anodisé



**05.01049.00**

Reduzierprofil  
Reduction profile  
Profilé réduction



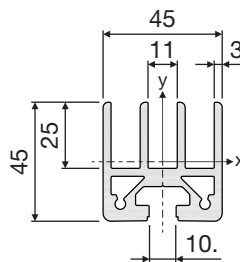
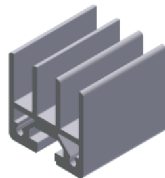
**05.02336.00**

Ø6 mm, PE

**05.02337.00**

Ø8 mm, PE

**45x45**

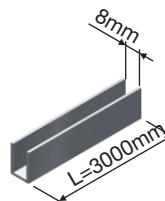


**05.01599.00**

M = 2,12 kg/m

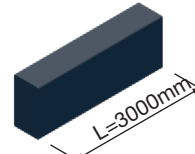
PE (m)  
6 / 36 / 72

Aluminium, eloxiert  
Aluminium, anodized  
Aluminium, anodisé



**05.02338.00**

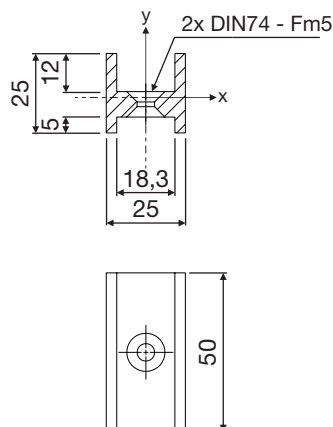
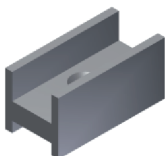
Führungsprofil oben  
Guide profile, top  
Profilé de guidage, en haut



**05.02339.00**

10x18 mm, PE

**Gleitstück 45**



**05.02053.01**



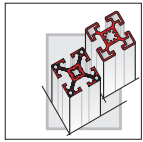
**05.02053.05**



PE-HD, schwarz  
PE-HD, black  
PE-HD, noir

8

Technische Änderungen vorbehalten



# PROFILRAHMEN FÜR SCHIEBEFENSTER

## PROFILE FRAME FOR SLIDING WINDOWS

### CHASSIS EN PROFILE POUR FENETRE COULISSANTE



#### Merkmale:

Klemmprofil 18x32 zum Bau von leichten Rahmen, für Schiebe- und Hubfenster.

Flächenelemente mit 10 mm Dicke können direkt eingebaut werden. Flächenelemente von 2-8 mm werden mit Einfassprofil eingebaut.

#### Characteristics:

Clamping profile 18x32 for construction of lightweight frames, for sash and lift windows.

Area elements 10 mm thick can be installed direct. Area elements 2-8 mm thick are installed with clasping profile.

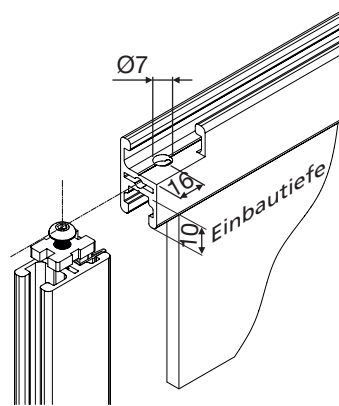
#### Caracteristique:

Profilé de serrage 18x32 pour la réalisation de châssis légers pour fenêtres coulissantes et fenêtres à guillotine.

Les panneaux de remplissage d'une épaisseur de 10 mm peuvent être encastrés directement. Ceux de 2-8 mm se montent avec un joint baguette.

### Befestigung

Fastening · Fixation



➔ ■ 3.19

05.01408.00

M6x20

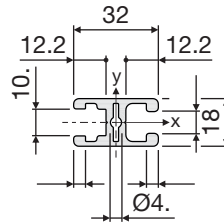
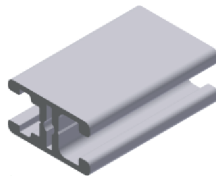


➔ ■ 3.28

05.01887.00

### Klemmprofil 18x32

Clamping profile 18x32 · Profilé 18x32



05.01711.00

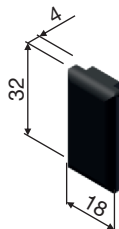
M = 0,67 kg/m  
 $I_x = 11,00 \text{ cm}^4$   
 $W_x = 12,22 \text{ cm}^3$   
 $I_y = 18,52 \text{ cm}^4$   
 $W_y = 11,58 \text{ cm}^3$

PE (m)

6 / 18 / 36 / 54

### Abdeckkappe 18x32

Cover cap 18x32 · Cache 18x32

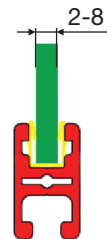


05.01749.00

PA schwarz  
 black  
 noir

### Einfassprofil

Clasping profile · Joint baguette



➔ ■ 7.03

05.01830.00

Technische Änderungen vorbehalten

# SCHIEBEFENSTER MIT PROFILRAHMEN

## SLIDING WINDOW WITH PROFILE FRAME

### FENETRE COULISSANTE AVEC CHASSIS EN PROFILE



#### Merkmale:

Schiebefenster mit Profilrahmen aus Klemmprofil 18x32 und Schiebegleiter-Sätzen.

Die Befestigung erfolgt durch Einrasten eines Federbolzens in die Montagebohrung Ø7 des Klemmprofils 18x32. Das Gleitstück kann durch eine zusätzliche Bohrung Ø7 an beliebiger Stelle fixiert werden.

Es können wahlweise 1 oder 2 Schiebefenster in einer Profilitnut 8 geführt werden. Die Gleitstücke bilden einen Mitnehmer des zweiten Fensters.

#### Characteristics:

Sliding window with profile frame made of clampin profile 18x32 and slider sets.

Fastening by latching spring bolt into the assembly hole Ø7 of the clamping profile 18x32. The sliding element can be fastened at required point using an additional hole Ø7.

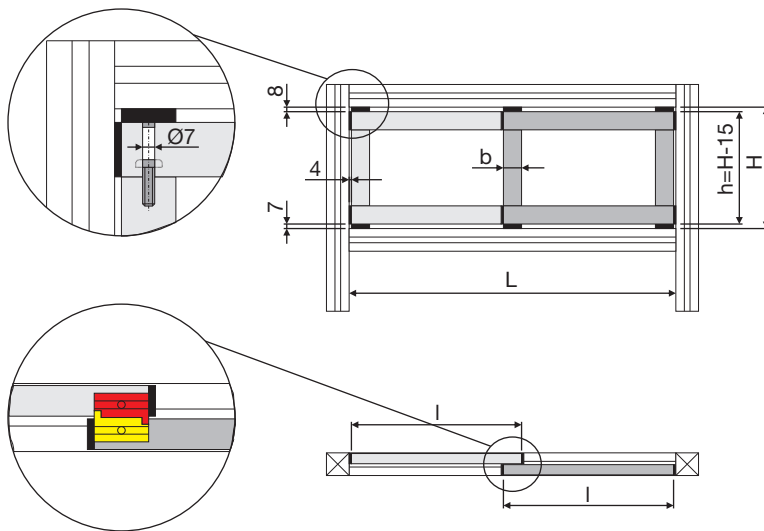
A choice of 1 or 2 sash windows can be run in a profile groove 8. The sliding elements form a catch for the second window.

#### Caracteristique:

Fenêtre coulissante avec châssis en profilé 18x32 et patins de glissement.

La fixation s'effectue en encliquetant un boulon à ressort. Dans le perçage de montage Ø7 du profilé 18x32. L'élément coulissant peut être fixé quel que soit l'endroit, en effectuant un perçage supplémentaire.

On peut au choix guider 1 ou 2 fenêtres coulissantes dans une rainure de profilé 8. Les éléments coulissants forment un taquet d'entraînement de la deuxième fenêtre.



Das zulässige Gewicht eines Fensters beträgt max. 10 kg.

The permitted weight of a window is max. 10 kg.

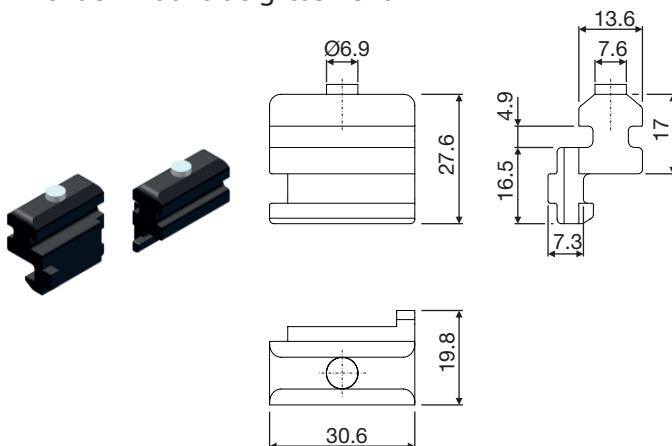
Le poids admissible d'une fenêtre est de max. 10 kg.

$$l = \frac{L-8 + (n-1)b}{n}$$

N = Anzahl  
Number of  
Nombre

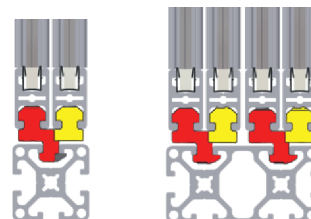
### Schiebegleiter

Slider · Patins de glissement

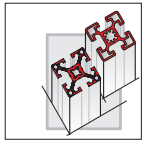


05.02340.00

Satz für Schiebetür-Führung besteht aus  
2x rechts und 2x links  
Tracking set for sliding windows consists of  
2x right and 2x left  
Le guidage pour fenêtre coulissante se compose de  
2x droite et 2x gauche



Technische Änderungen vorbehalten



# FALTTÜREN

## FOLDING DOORS

### PORTES ACCORDEON



**Merkmale:**

Das Falttürelement ist für gleichzeitige Dreh- und Gleitbewegungen ausgelegt und hat eine sehr hohe Lebensdauer.

Max. Biegemoment M: 20 Nm  
Max. Gewichtsbelastung F: 120 N

**Characteristics:**

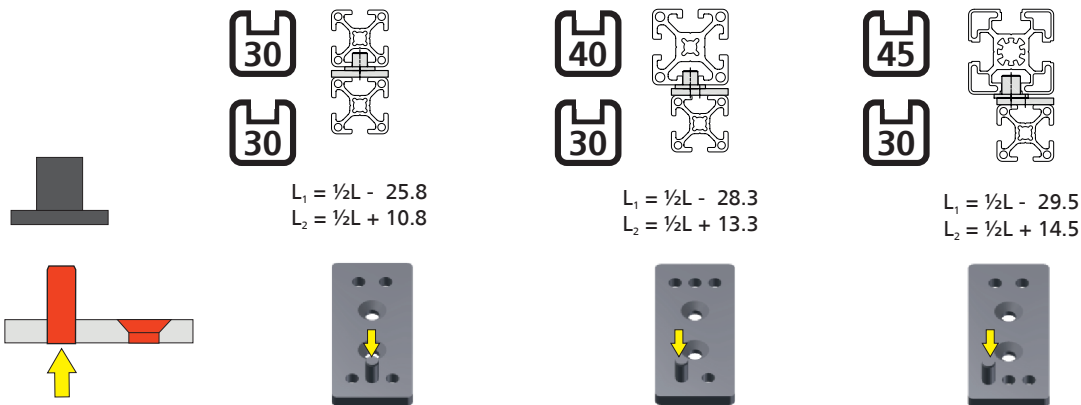
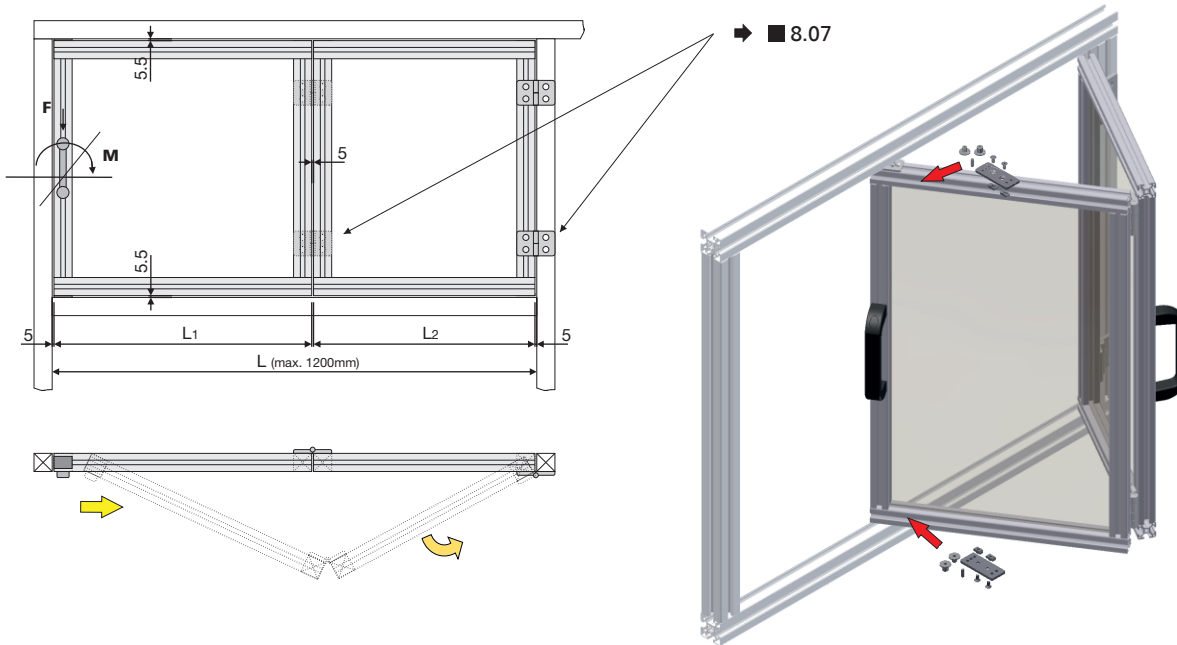
The folding door element is designed for simultaneous rotary and sliding door movements and has a very long service life.

Max. moment of flexion M: 20 Nm  
Max. load F: 120 N

**Caracteristique:**

Le module accordéon est conçu pour des mouvements glissants et rotatifs simultanés. Très bonne fiabilité.

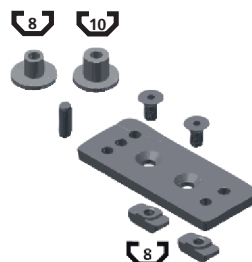
Moment de flexion M : 20 Nm  
Charge maximale F : 120 N



**Falttürelement**

Folding door elements · Interface pour support de pions

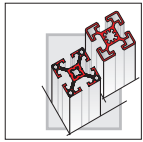
8E 05.01600.00



Technische Änderungen vorbehalten

**NOTIZEN**  
NOTES  
NOTATIONS





# SCHWENKTÜREN

## SWING DOORS

### PORTES BATTANTES



#### Merkmale:

FM Schwenktüren sind mit stabilen Alu-Scharnieren ausgerüstet. Das reichhaltige Zubehör ermöglicht eine vielfältige Ausführung.

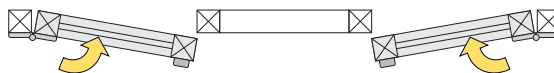
#### Characteristics:

FM swivel doors are fitted with sturdy aluminium hinges. The extensive range of accessories allows a wide variety of designs.

#### Caracteristique:

Les portes battantes FM sont équipées de charnières alu robustes. La diversité des accessoires permet une grande variété d'applications.

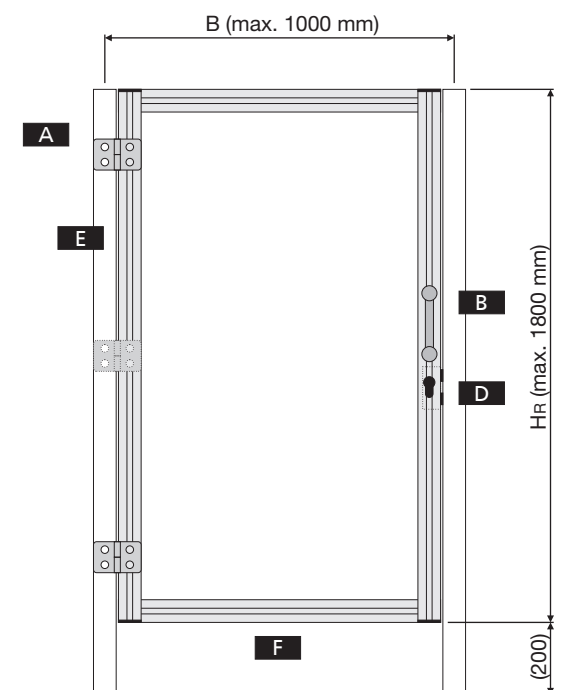
**Ausführung links**  
Design left  
Version gauche





**Ausführung rechts**  
Design right  
Version droite

## Anwendung

Application · Application



- A** Scharniere  
Hinges  
Charnières → ■ 8.08
- B** Griffe  
Handles  
Poignées → ■ 8.13
- C** Haltesysteme  
Retaining systems  
Systèmes de maintien → ■ 8.20
- D** Schließsysteme  
Locking systems  
Systèmes de fermeture → ■ 8.22
- E** Geeignete Stützen  
Suitable supports  
Montants adaptés → ■ 11.05
- F** Empfohlene Profilreihen  
Recommended profile series  
Séries de profilés conseillées

-  → ■ 2.27
-  → ■ 2.53

B	x	H	
750		1800	05.05071.20
850		1800	05.05072.20
1000		1800	05.05073.20

Technische Änderungen vorbehalten



# SCHIEBETÜREN

## SLIDING DOORS

## PORTES COULISSANTES



### Merkmale:

FM Schiebetüren mit einem Alu C-Schiennenprofil und leichtgängigen Rollenwagen. Die untere Zusatzführung über eine Führungsrolle sichert die Tür gegen Ausschwenken.

### Characteristics:

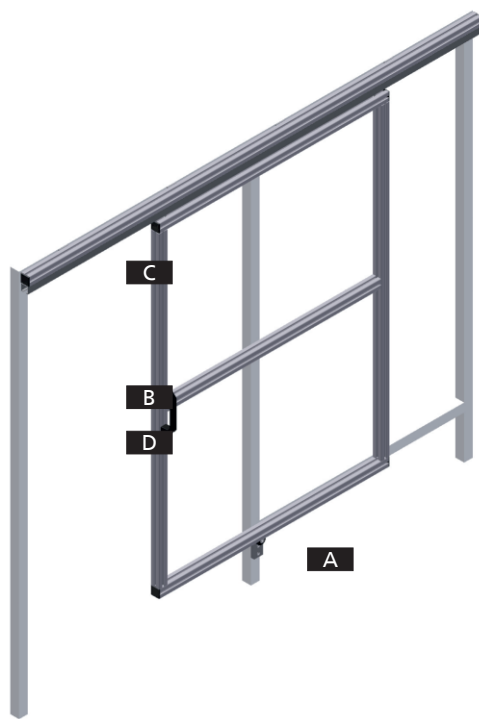
FM sliding doors with an aluminium C-profile and easy running roller carriage. Additional lower guidance by guide roller prevents the door from swinging out.

### Caracteristique:

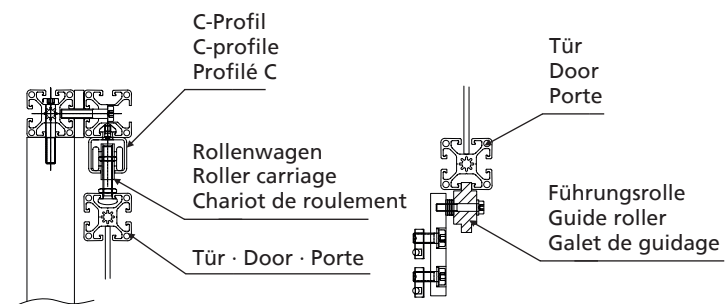
Portes coulissantes FM équipées de profilé alu C et d'un chariot de roulement d'excellente mobilité. Le guidage inférieur complémentaire par galet assure le guidage intérieur.

## Anwendung

Application · Application

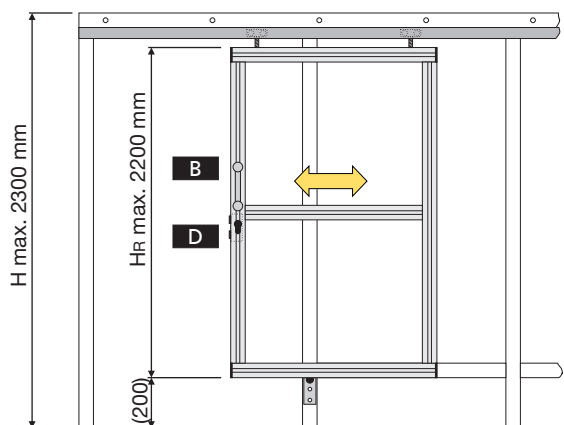


- A** Laufrollen  
Rollers  
Galets → ■ 6.08
- B** Griffe  
Handles  
Poignées → ■ 8.13
- C** Haltesysteme  
Retaining systems  
Systèmes de maintien → ■ 8.20
- D** Schließsysteme  
Locking systems  
Systèmes de fermeture → ■ 8.22

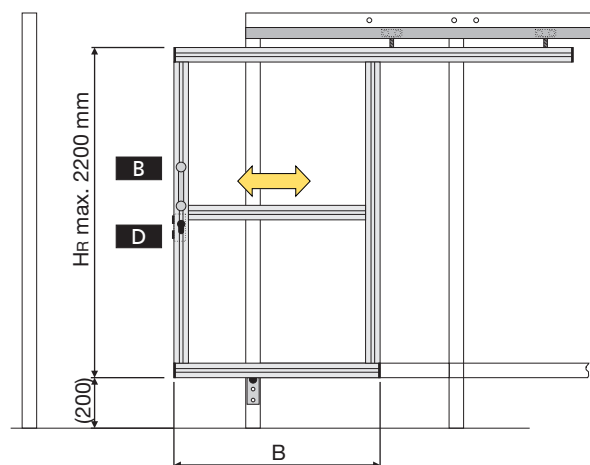


8

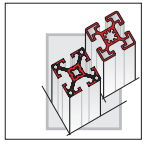
### Typ 1



### Typ 2



Technische Änderungen vorbehalten



# SCHARNIERPROFIL OHNE PROFILRAHMEN

## HINGE PROFILE WITHOUT PROFILE FRAME

### PROFILER CHARNIERE SANS CADRE DE PROFILER



**Merkmale:**

- Scharnier für frei tragende Flächenelemente ohne Spalt zum Anschluss-Profil.

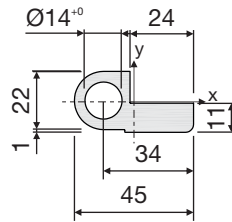
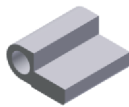
**Characteristics:**

- Hinge for free-weight-bearing surface elements without gap to the connection profile.

**Caracteristique:**

- Charnière pour les éléments de surface librement portant sans fente au profil de correspondance.

**45x22**

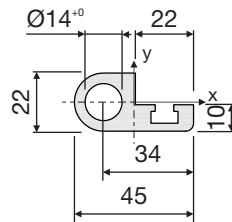
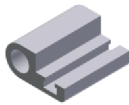


**05.01948.00**

M = 1,40 kg/m  
 $I_x = 2,50 \text{ cm}^4$   
 $W_x = 2,27 \text{ cm}^3$   
 $I_y = 8,10 \text{ cm}^4$   
 $W_y = 3,60 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

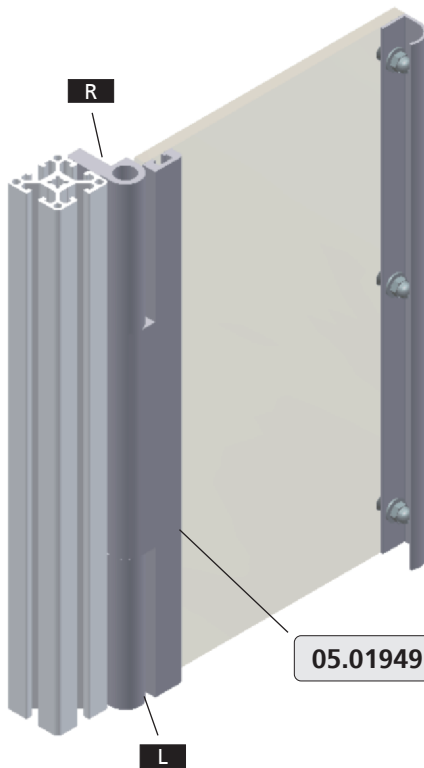
**45x22**



**05.01949.00**

M = 1,23 kg/m  
 $I_x = 2,24 \text{ cm}^4$   
 $W_x = 2,03 \text{ cm}^3$   
 $I_y = 6,84 \text{ cm}^4$   
 $W_y = 3,04 \text{ cm}^3$

PE (m)  
 6 / 36 / 72 / 108



- Endstück komplett
- End piece complete
- Ensemble complet



**05.01304.40**

**L**



**05.01304.45**

**L**

**05.01305.40**

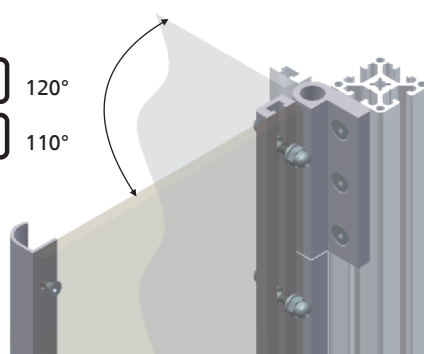
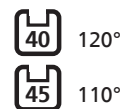
**R**

**05.01305.45**

**R**

8.15

**05.01949.10** L= mm

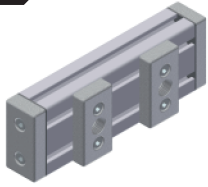


Technische Änderungen vorbehalten

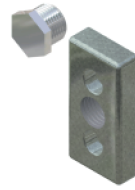
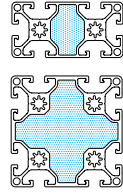
# INSTALLATIONSELEMENTE INSTALLATION ELEMENTS ÉLÉMENT D'INSTALLATION



8

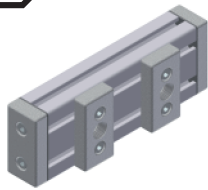


■ 9.02

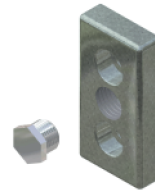
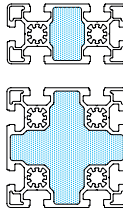


■ 9.03

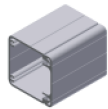
10



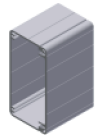
■ 9.04



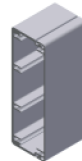
■ 9.05



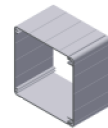
■ 9.06



■ 9.06

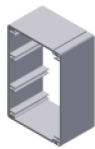


■ 9.06



■ 9.07

9



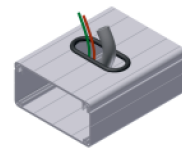
■ 9.07



■ 9.07



■ 9.08



■ 9.09

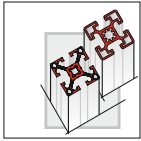


■ 9.10



■ 9.10

Technische Änderungen vorbehalten



# LUFTFÜHRUNGSELEMENTE 40

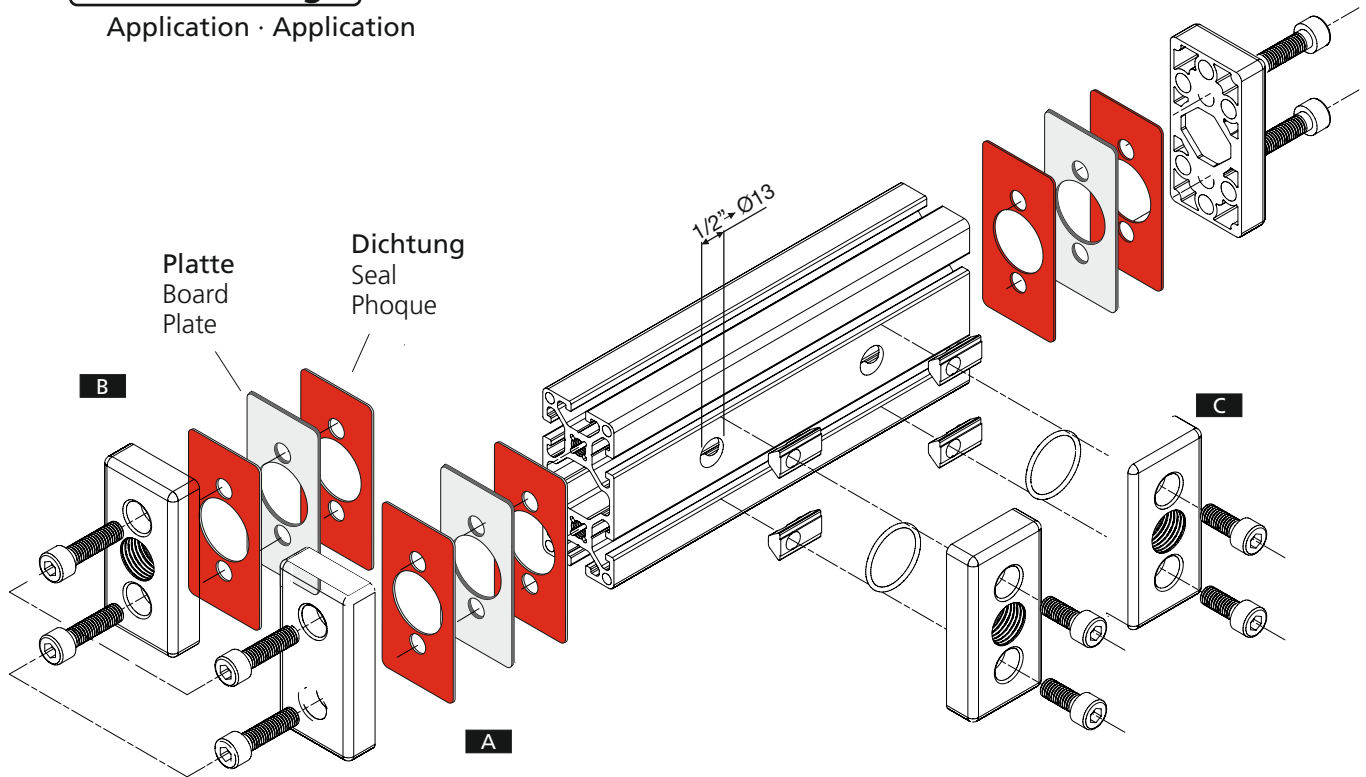
## AIR SUPPLY ELEMENTS 40

### CONDUITE D'AIR COMPRIME 40

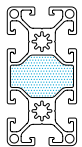


### Anwendung

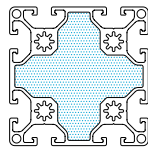
Application · Application



max. 8 bar



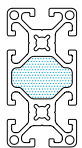
6.8 cm<sup>2</sup>



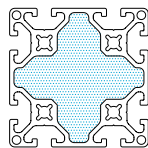
27 cm<sup>2</sup>



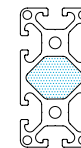
max. 10 bar



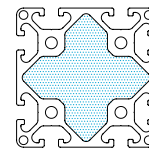
6.3 cm<sup>2</sup>



26.7 cm<sup>2</sup>



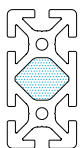
5.7 cm<sup>2</sup>



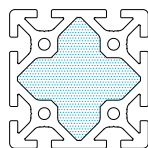
25.4 cm<sup>2</sup>



max. 12 bar



5.1 cm<sup>2</sup>



24.6 cm<sup>2</sup>

Technische Änderungen vorbehalten

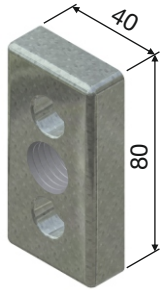
# LUFTFÜHRUNGSELEMENTE 40

## AIR SUPPLY ELEMENTS 40

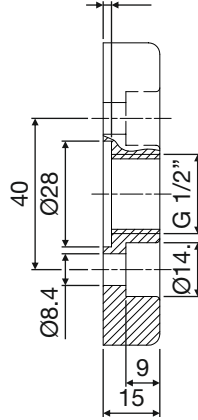
### CONDUITE D'AIR COMPRIME 40



#### 40x80



GD-Zn



Platte  
Board  
Plate



05.01570.00

Dichtung  
Seal  
Phoque



05.00796.00

A



+

2x

05.00791.10

B

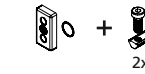


+

2x

05.00799.10

C

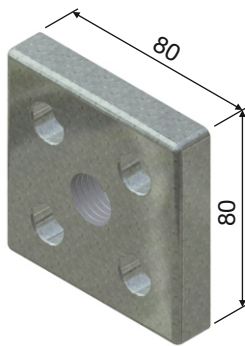


+

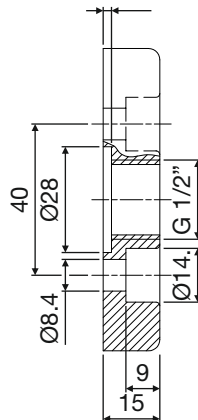
2x

05.00799.20

#### 80x80



GD-Zn



Platte  
Board  
Plate



05.02374.00

Dichtung  
Seal  
Phoque



05.00801.00

A



+

4x

05.00793.10

B

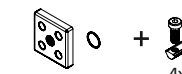


+

4x

05.00800.10

C



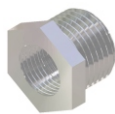
+

4x

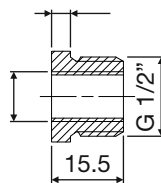
05.00800.20

#### Reduzierstück

Adapter · Réducteur



SW24



1/2" → 3/8"

05.00750.00

1/2" → 1/4"

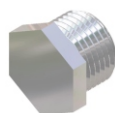
05.00751.00

1/2" → 1/8"

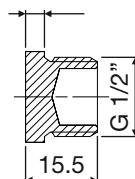
05.00752.00

#### Verschlussstück

Seal · Obturateur

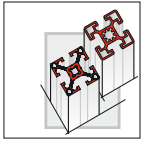


SW24



1/2"

05.00753.00



# LUFTFÜHRUNGSELEMENTE 45

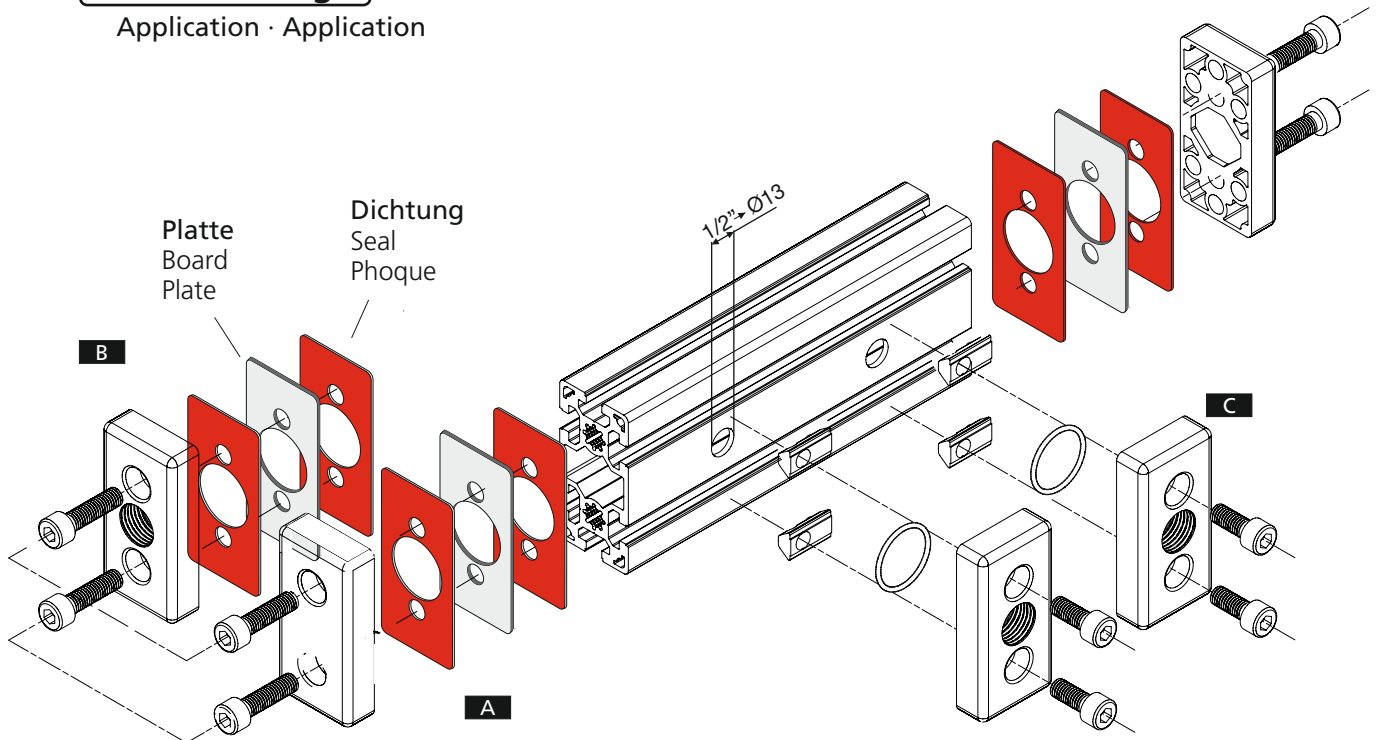
## AIR SUPPLY ELEMENTS 45

### CONDUITE D'AIR COMPRIME 45

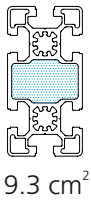


#### Anwendung

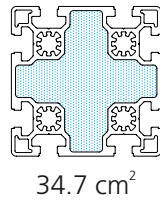
Application · Application



max. 8 bar



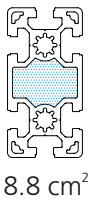
9.3 cm<sup>2</sup>



34.7 cm<sup>2</sup>



max. 12 bar



8.8 cm<sup>2</sup>

Technische Änderungen vorbehalten

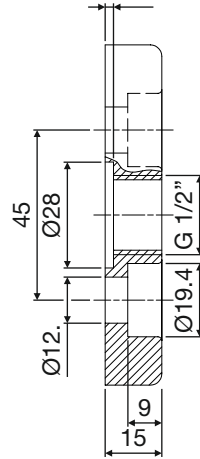
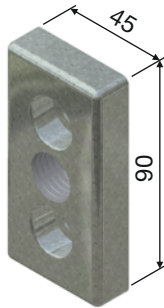
# LUFTFÜHRUNGSELEMENTE 45

## AIR SUPPLY ELEMENTS 45

### CONDUITE D'AIR COMPRIME 45



#### 45x90



Platte  
Board  
Plate **05.01571.12**

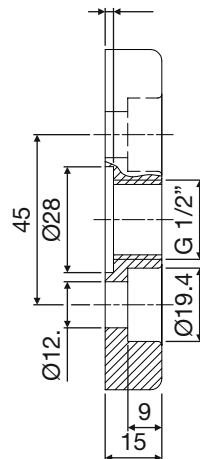
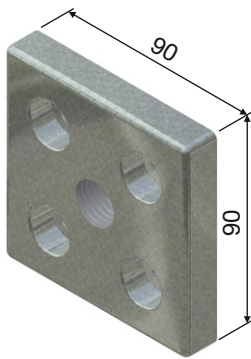
Dichtung  
Seal  
Phoque **05.00759.00**

**A** + **05.00755.10**  
2x

**B** + **05.00757.10**  
2x

**C** + **05.00757.20**  
2x

#### 90x90



Platte  
Board  
Plate **05.02375.00**

Dichtung  
Seal  
Phoque **05.00760.00**

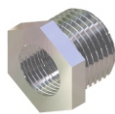
**A** + **05.00756.10**  
4x

**B** + **05.00758.10**  
4x

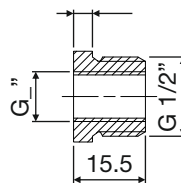
**C** + **05.00758.20**  
4x

#### Reduzierstück

Adapter · Réducteur



SW24



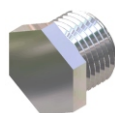
1/2" → 3/8" **05.00750.00**

1/2" → 1/4" **05.00751.00**

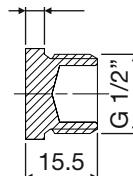
1/2" → 1/8" **05.00752.00**

#### Verschlussstück

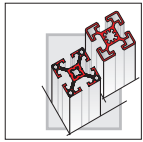
Seal · Obturateur



SW24



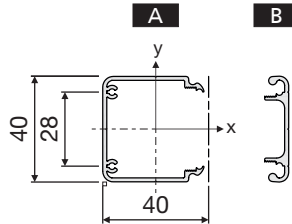
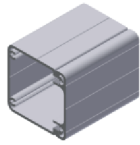
1/2" **05.00753.00**



# KABELKANALPROFILE CABLE DUCT PROFILE PROFILE D`CANIVEAU



**40x40**



**A**

**05.02025.00**



M = 0,53 kg/m  
 $I_x = 5,16 \text{ cm}^4$   
 $W_x = 2,58 \text{ cm}^3$   
 $I_y = 3,10 \text{ cm}^4$   
 $W_y = 1,55 \text{ cm}^3$

PE (m)  
 6 / 24 / 48

**B**

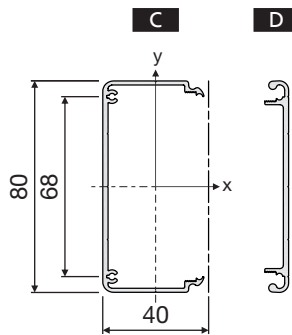
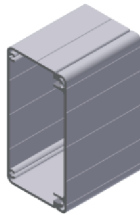
**05.02026.00**



M = 0,30 kg/m  
 $I_x = 1,95 \text{ cm}^4$   
 $W_x = 0,97 \text{ cm}^3$   
 $I_y = 0,06 \text{ cm}^4$   
 $W_y = 0,04 \text{ cm}^3$

PE (m)  
 6 / 24 / 48

**40x80**



**C**

**05.02027.00**



M = 0,78 kg/m  
 $I_x = 27,11 \text{ cm}^4$   
 $W_x = 6,77 \text{ cm}^3$   
 $I_y = 4,03 \text{ cm}^4$   
 $W_y = 2,01 \text{ cm}^3$

PE (m)  
 6 / 12 / 24 / 48

**D**

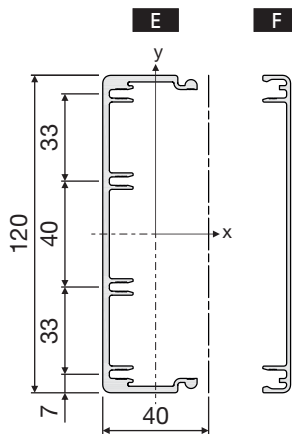
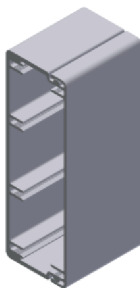
**05.02028.00**



M = 0,54 kg/m  
 $I_x = 13,24 \text{ cm}^4$   
 $W_x = 3,31 \text{ cm}^3$   
 $I_y = 0,08 \text{ cm}^4$   
 $W_y = 0,05 \text{ cm}^3$

PE (m)  
 6 / 12 / 24 / 48

**40x120**



**E**

**05.02214.00**



M = 1,60 kg/m  
 $I_x = 115,69 \text{ cm}^4$   
 $W_x = 19,28 \text{ cm}^3$   
 $I_y = 5,43 \text{ cm}^4$   
 $W_y = 2,72 \text{ cm}^3$

PE (m)  
 3 / 30

**F**

**05.02216.00**



M = 0,66 kg/m  
 $I_x = 40,69 \text{ cm}^4$   
 $W_x = 6,78 \text{ cm}^3$   
 $I_y = 0,16 \text{ cm}^4$   
 $W_y = 0,10 \text{ cm}^3$

PE (m)  
 3 / 30

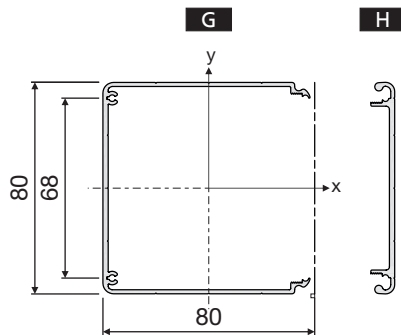
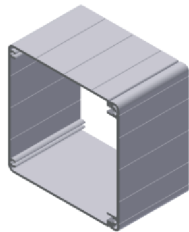
Technische Änderungen vorbehalten



# KABELKANALPROFILE CABLE DUCT PROFILE PROFILE D`CANIVEAU



**80x80**



**G**



**05.02029.00**

M = 1,10 kg/m  
I<sub>x</sub> = 45,47 cm<sup>4</sup>  
W<sub>x</sub> = 11,37 cm<sup>3</sup>  
I<sub>y</sub> = 27,85 cm<sup>4</sup>  
W<sub>y</sub> = 6,96 cm<sup>3</sup>

PE (m)  
6 / 24 / 48

**H**

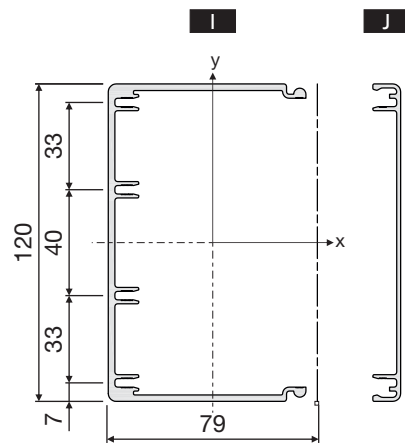
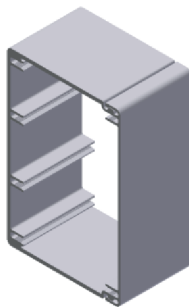


**05.02028.00**

M = 0,54 kg/m  
I<sub>x</sub> = 13,24 cm<sup>4</sup>  
W<sub>x</sub> = 3,31 cm<sup>3</sup>  
I<sub>y</sub> = 0,08 cm<sup>4</sup>  
W<sub>y</sub> = 0,05 cm<sup>3</sup>

PE (m)  
6 / 24 / 48

**80x120**



**I**



**05.02215.00**

M = 2,12 kg/m  
I<sub>x</sub> = 182,32 cm<sup>4</sup>  
W<sub>x</sub> = 30,39 cm<sup>3</sup>  
I<sub>y</sub> = 42,56 cm<sup>4</sup>  
W<sub>y</sub> = 10,64 cm<sup>3</sup>

PE (m)  
3 / 30

**J**

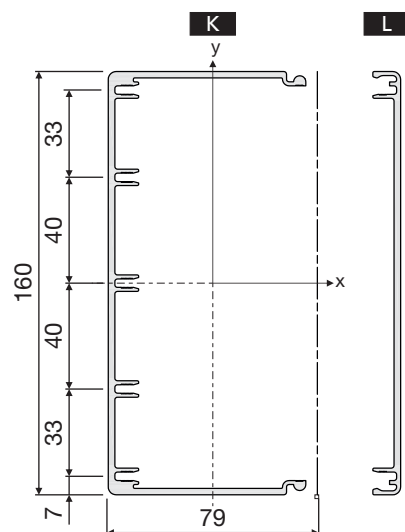
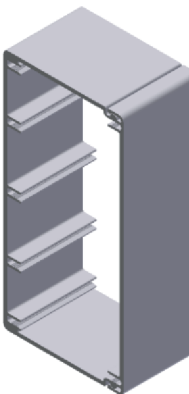


**05.02216.00**

M = 0,66 kg/m  
I<sub>x</sub> = 40,69 cm<sup>4</sup>  
W<sub>x</sub> = 6,78 cm<sup>3</sup>  
I<sub>y</sub> = 0,16 cm<sup>4</sup>  
W<sub>y</sub> = 0,10 cm<sup>3</sup>

PE (m)  
3 / 30

**80x160**



**K**



**05.02217.00**

M = 2,43 kg/m  
I<sub>x</sub> = 349,85 cm<sup>4</sup>  
W<sub>x</sub> = 43,73 cm<sup>3</sup>  
I<sub>y</sub> = 45,36 cm<sup>4</sup>  
W<sub>y</sub> = 11,34 cm<sup>3</sup>

PE (m)  
3 / 30

**L**



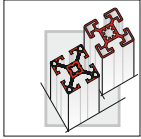
**05.02218.00**

M = 1,19 kg/m  
I<sub>x</sub> = 109,37 cm<sup>4</sup>  
W<sub>x</sub> = 13,67 cm<sup>3</sup>  
I<sub>y</sub> = 0,18 cm<sup>4</sup>  
W<sub>y</sub> = 0,10 cm<sup>3</sup>

PE (m)  
3 / 30

9

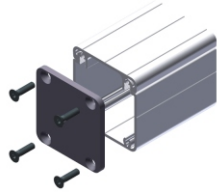
Technische Änderungen vorbehalten



**KABELKANAL ABDECKKAPPEN**  
CABLE DUCT COVERING CAP  
CANIVEAU CLAPET DE COUVERCLE



**40x40**



DIN 7991  
M3x8 (4x)

99.00500.00

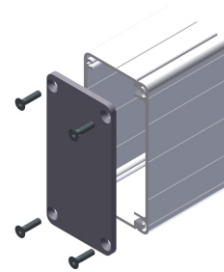
St, vz. 3 mm

05.02219.00

VA 3 mm

05.02219.10

**40x80**



DIN 7991  
M3x8 (4x)

99.00500.00

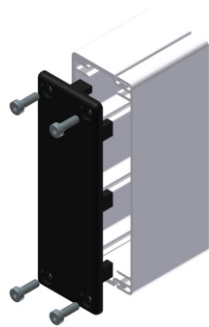
St, vz. 3 mm

05.02222.00

VA 3 mm

05.02222.10

**40x120**



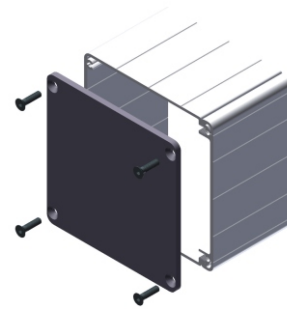
DIN 7984  
M4x12 (4x)

99.00095.00

PA, 4 mm

05.02269.00

**80x80**



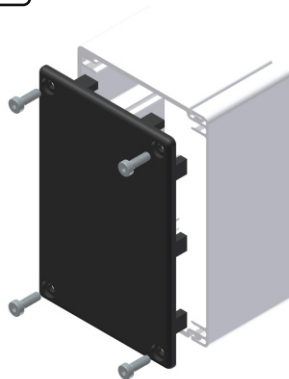
DIN 7991  
M3x8 (4x)

99.00500.00

St, vz. 3 mm

05.02268.00

**80x120**



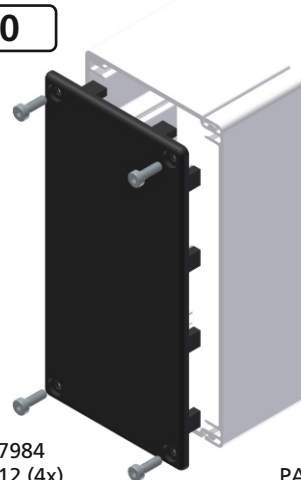
DIN 7984  
M4x12 (4x)

99.00095.00

PA, 4 mm

05.02223.00

**80x160**



DIN 7984  
M4x12 (4x)

99.00095.00

PA, 4 mm

05.02224.00

# KABELDURCHFÜHRUNGEN

## CABLE BUSHING

### PASSE-CABLES



#### Innovative Vorteile

- Einfaches Verlegen von Leitungen
- Deckt scharfe Schnittkanten ab
- Geschützte Ausleitung von Kabeln und Schläuchen
- Typ B und Typ D für nachträglichen Leitungseinbau geeignet

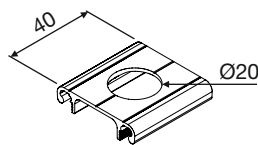
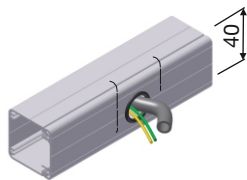
#### Innovative advantages

- Easy laying of cables
- Covers sharp edges
- Protected outlet of cables and hoses
- Type B and type D for later cable installation

#### Atouts novateurs

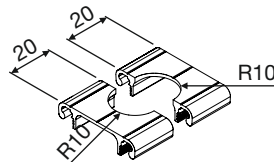
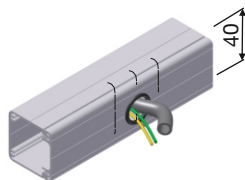
- Pose aisée de câbles
- Sécurise les arêtes
- Sortie protégée de câbles et flexibles
- Type B et type D pour installation ultérieure de câbles

#### Typ A



05.02156.00

#### Typ B



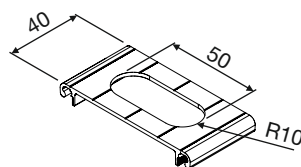
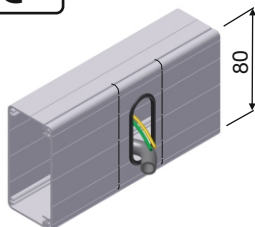
05.02157.00

Für nachträglichen Einbau geeignet

Suitable for retrofitting

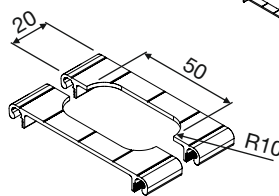
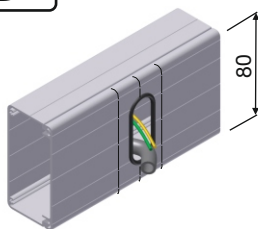
Adapté pour montage ultérieur

#### Typ C



05.02158.00

#### Typ D



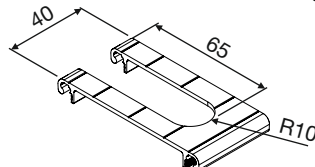
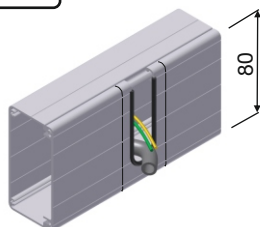
05.02159.00

Für nachträglichen Einbau geeignet

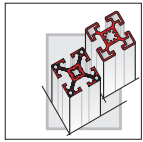
Suitable for retrofitting

Adapté pour montage ultérieur

#### Typ E



05.02160.00

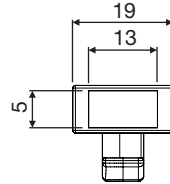
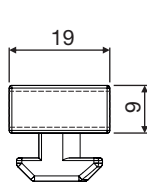


# INSTALLATIONSELEMENTE INSTALLATION ELEMENTS ÉLÉMENT D'INSTALLATION



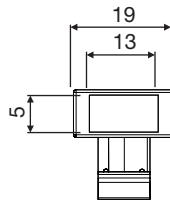
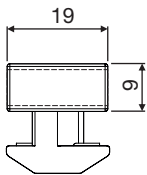
## Kabelhalter

Cable holder · Porte-câbles



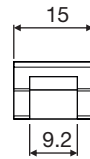
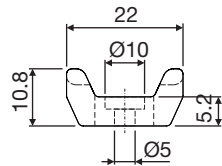
**8** 05.01528.00

Kunststoff PA,  
glasfaserverstärkt  
Plastic PA,  
fibreglass reinforced  
Plastique PA,  
renforcé fibres de verre



**10** 05.01530.00

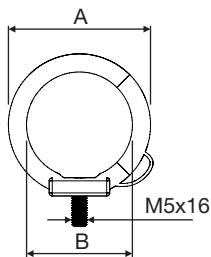
Kunststoff PA,  
glasfaserverstärkt  
Plastic PA,  
fibreglass reinforced  
Plastique PA,  
renforcé fibres de verre



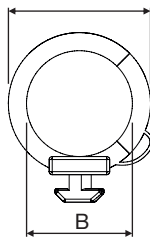
05.01531.00

Kunststoff PA,  
glasfaserverstärkt  
Plastic PA,  
fibreglass reinforced  
Plastique PA,  
renforcé fibres de verre

## IR-Quick

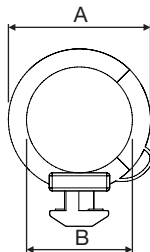


	A	B	
IR-Quick 15F - S	28.5	17	05.01264.00
IR-Quick 25F - S	36.5	25	05.01265.00
IR-Quick 35F - S	47.5	35	05.01266.00
IR-Quick 45F - S	56.5	45	05.01267.00



**8**

	A	B	
IR-Quick 15F - 8	28.5	17	05.01275.00
IR-Quick 25F - 8	36.5	25	05.01276.00
IR-Quick 35F - 8	47.5	35	05.01277.00
IR-Quick 45F - 8	56.5	45	05.01278.00



**10**

	A	B	
IR-Quick 15F - 10	28.5	17	05.01260.00
IR-Quick 25F - 10	36.5	25	05.01261.00
IR-Quick 35F - 10	47.5	35	05.01262.00
IR-Quick 45F - 10	56.5	45	05.01263.00

Technische Änderungen vorbehalten

# ECO-ROHR EASY&QUICK

## ECO PIPE SYSTEM EASY&QUICK

### TUBES ECO EASY&QUICK



Das System für Ihren **KVP:**  
Kontinuierlichen  
Verbesserungs  
Prozess  
und Ihre Kanban-Systeme als Lösung  
Ihrer Logistik-Prozesse

**Merkmale:**

- Einfache Planung
- Wenige Werkzeuge
- Leichte Montage
- Flexible Erweiterungen
- Wiederverwendbarkeit der Produkte
- Umweltfreundliche Produkte
- Anbindung an das FM-Aluprofil-system

The system for your **CIP:**  
Continuous  
Improvement  
Process  
and the Kanban systems as solution  
for your logistics processes

**Characteristics:**

- Easy planning
- Less tools
- Easy assembly
- Flexible extension
- Reusability of the products
- Environmentally friendly products
- Connection to the FM aluminium profile system

Le système pour  
Processus  
D'optimisation  
Continue  
et vos systèmes de gestion des stocks  
FIFO (PEPS)

**Caractéristique:**

- Etude simplifiée
- Peu d'outils
- Montage aisé
- Modularité
- Réutilisation illimitée
- Respect de l'environnement
- Compatible avec le système de profilés alu FM



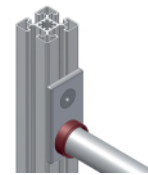
■ 10.02



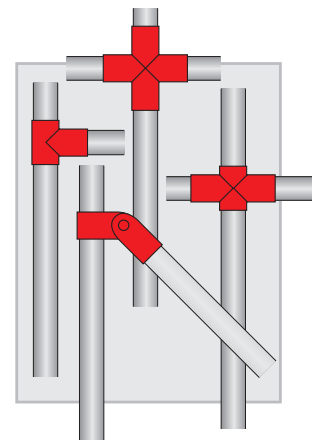
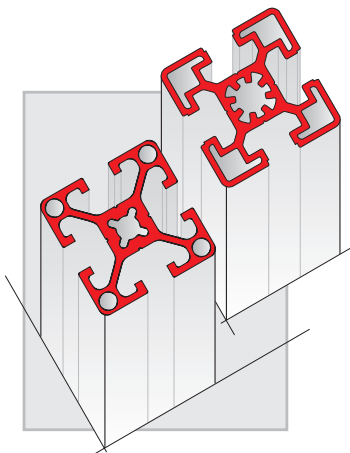
■ 10.03



■ 10.04



■ 10.06

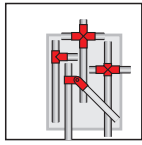


... Aluminiumprofil trifft auf ECO-Rohr ...

... Aluminium profile meets ECO pipe ...

... Profilé alu avec tube ECO ...

Technische Änderungen vorbehalten



# ECO-ROHRSTECKSYSTEM

## ECO PIPE SYSTEM

### TUBES ECO



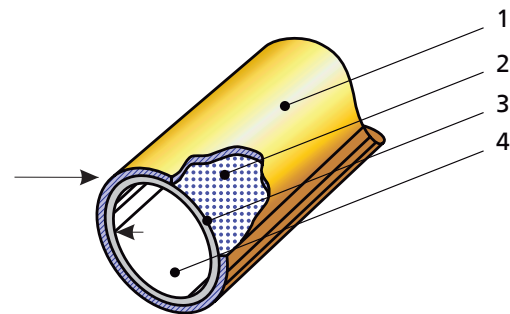
Artikel Nr. Item No. Article No.	Typ Type Typé	Ø mm	t mm	Farbe Colour Couleur	Gewicht Weight Poids	HV
08.00010.00	KUMA-Rohr	28	1	Lichtgrau Light grey Gris clair	0,73 kg/m	90
08.00017.00	KUMA-Rohr	28	1	Dunkelgrau Dark grey Gris foncé	0,73 kg/m	90
08.00016.00	KUMA-Rohr	28	1	Enzianblau Blue (dark) Bleu (noir)	0,73 Kg/m	90
08.00004.00	KUMA-Rohr	28	1	Weiß White Blanc	0,73 Kg/m	90
08.00314.00	KUMA-Rohr	28	1	Rot Red Rouge	0,73 Kg/m	90
08.00315.00	KUMA-Rohr	28	1	Gelb Yellow Jaune	0,73 Kg/m	90
08.00011.00	KUMA-Rohr	28	1	Grün Green Vert	0,73 Kg/m	90
08.00008.00	KUMA-Rohr	28	2	Lichtgrau Light grey Gris clair	1,35 kg/m	90
08.00018.00	KUMA-Rohr	28	2	Dunkelgrau Dark grey Gris foncé	1,35 kg/m	90
08.00007.00	KUMA-Rohr	28	2	Enzianblau Blue (dark) Bleu (noir)	1,35 kg/m	90
08.00005.00	KUMA-Rohr	28	2	Weiß White Blanc	1,35 kg/m	90
08.00013.00	KUMA-ESD	28	1	Schwarz Black Noir	0,72 kg/m	90
08.00029.00	KUMA-ESD Winkelrohr	28	1	Schwarz Black Noir	0,77 kg/m	90
08.00021.00	KUMA-ESD	28	2	Schwarz Black Noir	1,35 kg/m	90
08.00022.00	KUMA-Rohr	28	2	Rot Red Rouge	1,35 kg/m	90
08.00026.00	KUMA- Gleit-Rohr	28	1	Enzianblau Blue (dark) Bleu (noir)	0,77 kg/m	90
08.00027.00	KUMA- Gleit-Rohr	28	1	Lichtgrau Light grey Gris clair	0,77 kg/m	90
08.00003.00	KUMA- Gleit-Rohr	28	2	Lichtgrau Light grey Gris clair	1,35 kg/m	90
08.00009.00	KUMA-ESD Gleit-Rohr	28	1	Schwarz Black Noir	0,77 kg/m	90
08.00019.00	KUMA-ESD Flach-Rohr	28	1	Schwarz Black Noir	0,77 kg/m	90
08.00019.10	KUMA Flach-Rohr	28	1	Grau grey Gris	0,77 kg/m	90
08.00020.00	KUMA-Rohr	32	1	Lichtgrau Light grey Gris clair	0,87 kg/m	90
08.00001.00	NICO	28	0,8	Silber Silver Argent	0,55 kg/m	210
08.00002.00	NICO	28	1,2	Silber Silver Argent	0,79 kg/m	210
08.00023.00	NICO	32	0,8	Silber Silver Argent	0,66 kg/m	210

Technische Änderungen vorbehalten

## KUMA-ROHR

### KUMA PIPE · TUBE KUMA

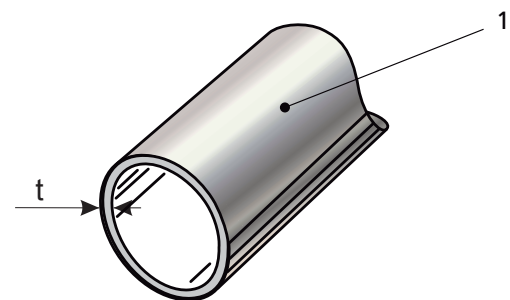
Stahlrohr mit Kunststoffmantel (ABS)  
Steel pipe with ABS resin  
Tube acier avec revêtement ABS



- 1 ABS-Mantel  
ABS resin  
Revêtement ABS
- 2 Stahlrohr-Oberfläche  
Steel Surface  
Surface du tube acier
- 3 Stahlrohr  
Steel pipe  
Tube acier
- 4 Rostfrei-Beschichtung  
Anti rust painting  
Revêtement inoxydable

## NICO-ROHR

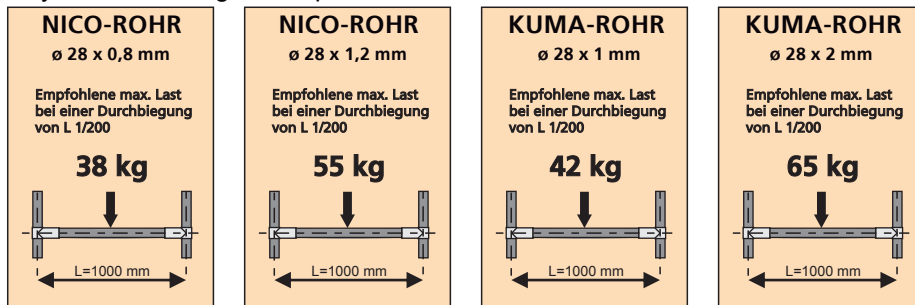
### NICO PIPE · TUBE NICO



- 1 Stahlrohr, hoch glänzend  
mit Indoor-Korrosionsschutz  
Steel pipe, bright with Indoor-  
corrosion protection  
Tube acier, brillant avec  
Indoor protection anticorrosion

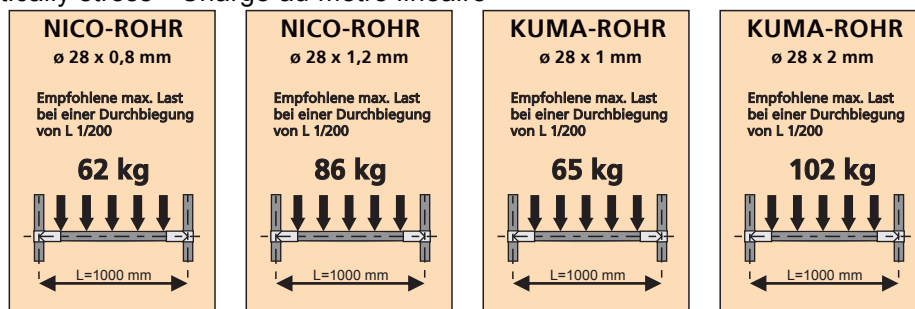
**PUNKTLAST**

Single statically stress · Charge statique max



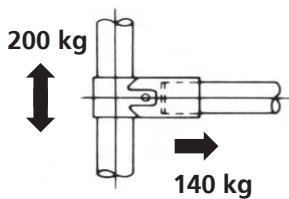
**STRECKENLAST**

Surface statically stress · Charge au mètre linéaire



**Zulässige Verbinderbelastungen**

Permitted connector loads · Charges admissibles des fixations



Max. ruhende Last horizontal und vertikal

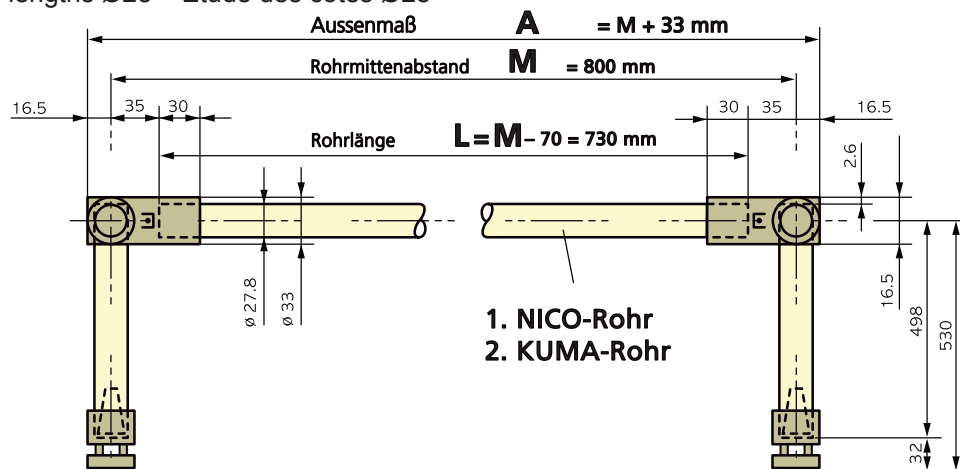
Max. resting load, horizontal and vertical

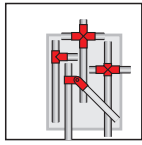
Charge statique max. sur la fixation maximale et horizontale

**Planung der Rohrlängen Ø28**

Planning of pipe lengths Ø28 · Etude des cotes Ø28

$A = M + 33$   
 $L = M - 70$





# ECO-ROHRSTECKSYSTEM VERBINDER

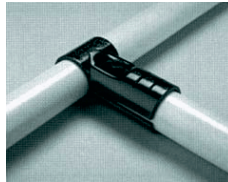
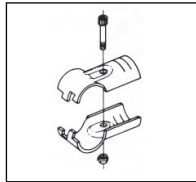
## ECO PIPE SYSTEM CONNECTOR

### KITS DE FIXATION ECO-MECANO

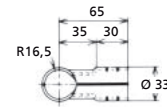


#### Rohr-T-Verbinder

Pipe T-connector · Fixation droite



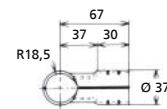
Ø 28 mm



HJ-1

08.00030.xx

Ø 32 mm

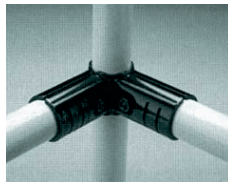
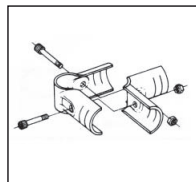


WJ-1

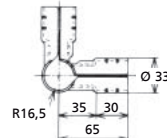
08.00031.xx

#### Rohr-Eckverbinder

Pipe corner connector · Fixation d'angle



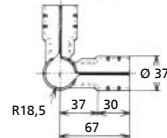
Ø 28 mm



HJ-2

08.00032.xx

Ø 32 mm

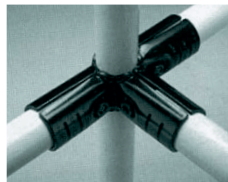
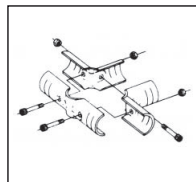


WJ-2

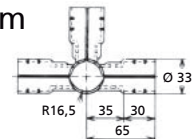
08.00033.xx

#### Rohr-T-Kreuzverbinder

Pipe T cross-connector · Connecteur en T



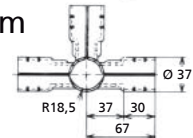
Ø 28 mm



HJ-3

08.00034.xx

Ø 32 mm

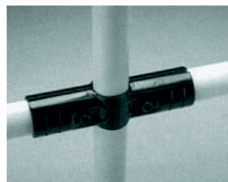
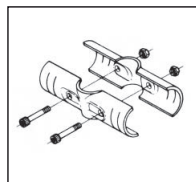


WJ-3

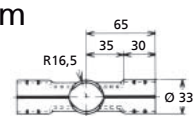
08.00035.xx

#### Rohr-Kreuzverbinder

Pipe cross connector · Fixation croisée



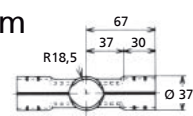
Ø 28 mm



HJ-4

08.00036.xx

Ø 32 mm

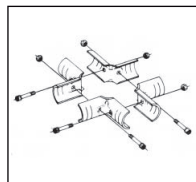


WJ-4

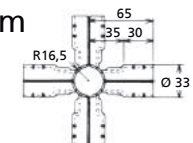
08.00037.xx

#### Rohr-Sternverbinder

Pipe star connector · Fixation étoile



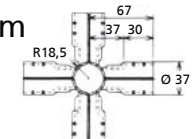
Ø 28 mm



HJ-5

08.00038.xx

Ø 32 mm



WJ-5

08.00039.xx

Technische Änderungen vorbehalten

**08.00xxx.00**  
**silber-vernickelt**  
 silver nickel-plated · nickelé argent

**08.00xxx.10**  
**schwarz-chromatiert**  
 black chrome · chromatisé noir



# ECO-ROHRSTECKSYSTEM VERBINDER

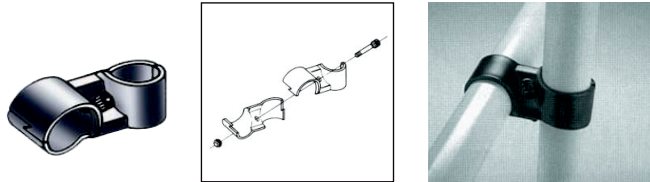
## ECO PIPE SYSTEM CONNECTOR

### KITS DE FIXATION ECO-MECANO



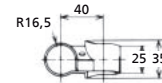
#### Rohr-Kreuzverbinder HV

Pipe cross connector HV · Fixation croisée HV



Ø 28 mm

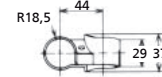
HJ-6



08.00040.xx

Ø 32 mm

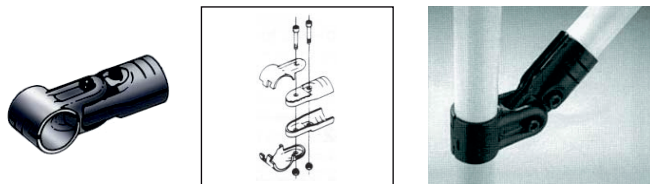
WJ-6



08.00041.xx

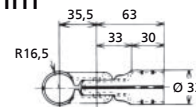
#### Rohr-Gelenkverbinder

Pipe hinged connector · Fixation articulée



Ø 28 mm

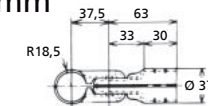
HJ-7



08.00042.xx

Ø 32 mm

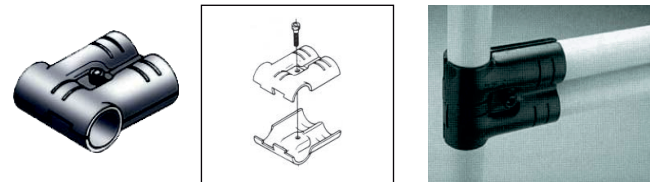
WJ-7



08.00043.00

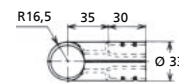
#### Rohr-T-Parallelverbinder

Pipe T parallel connector · Fixation T parallèle



Ø 28 mm

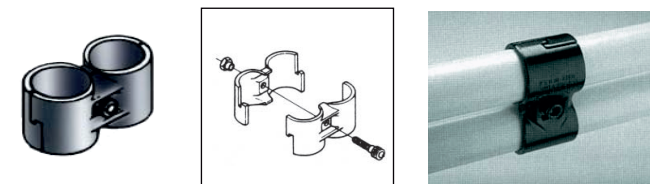
HJ-9



08.00044.xx

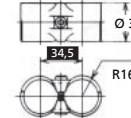
#### Rohr-Parallelverbinder

Pipe parallel connector · Fixation parallèle



Ø 28 mm

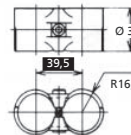
HJ-10



08.00046.xx

Ø 28 mm

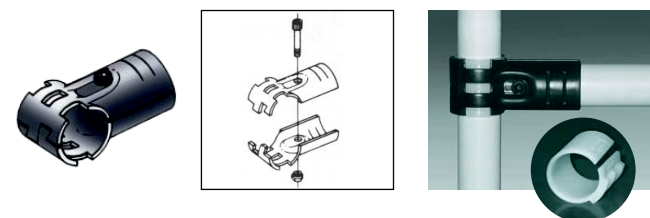
HJ-12



08.00050.00

#### Rohr-Sternverbinder

Pipe star connector · Fixation étoile



Ø 28 mm

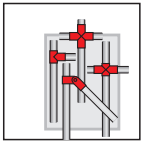
HJ-11

08.00048.xx

08.00xxx.00  
silber-vernickelt  
silver nickel-plated · nickelé argent

08.00xxx.10  
schwarz-chromatiert  
black chrome · chromatisé noir

Technische Änderungen vorbehalten



# ECO-ROHRSTECKSYSTEM VERBINDER

## ECO PIPE SYSTEM CONNECTOR

### KITS DE FIXATION ECO-MECANO



Einfach das ECO-Rohrstecksystem mit dem Aluminiumsystem kombinieren, so können Sie die Vorteile beider Systeme nutzen.

Easy to connect the ECO-pipe system with the Alu profile system. So you can use all the advantages from both systems.

Il vous suffit d'associer le système de tubes ECO au système de profilés en aluminium pour profiter des avantages des deux systèmes.

### VS - Verbindung

Artikel Nr.	TYP	Ø	A	FM	U
08.00399.00	ALU / NICO / KUMA 1mm	28	40		
08.00399.00	ALU / NICO / KUMA 1mm	28	45		

### Winkelverbindung

Artikel Nr.	TYP	Ø	A	FM	U
08.00398.05	ALU / NICO / KUMA 1mm	28	16		
08.00398.05	ALU / NICO / KUMA 1mm	28	13,5		

Technische Änderungen vorbehalten

# ECO-ROHRSTECKSYSTEM ZUBEHÖR

## ECO PIPE SYSTEM ACCESSORIES

### ECO MECANO ACCESSOIRES



#### Rohr Profil T - teilbare Verbindungen

Artikel Nr.	TYP	Ø	A		
08.00400.00	NICO / KUMA 1/2 mm	28	35	40/45	

**INFO**

#### Rohr Profil T - feste Verbindungen

Artikel Nr.	TYP	Ø	A		
08.00153.00	NICO / KUMA 1/2 mm	28	5	40/45	

**INFO**

#### Laschenverbindung

Artikel Nr.	TYP		
08.00492.00	KUMA-Rohr ø 28 x 1,0 mm	40/45	
08.00493.00	KUMA-Rohr ø 28 x 2,0 mm	40/45	
08.00494.00	NICO-Rohr ø 28 x 0,8 mm	40/45	
08.00495.00	NICO-Rohr ø 28 x 1,2 mm	40/45	

**INFO**

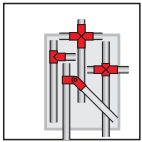
Einschlagwerkzeug für Federkralle M6  
 Driver tool for spring-loaded M6  
 Outil d'insertion pour griffes élastiques M6  
 Art.Nr.: 08.00496.00

10

Technische Änderungen vorbehalten



Einbau nur in Profilrahmen da begrenzte Auszugsfestigkeit  
 Only for installation in profiled frame because of limited extraction force  
 Montage seulement dans chasis profilé car résistance au exode

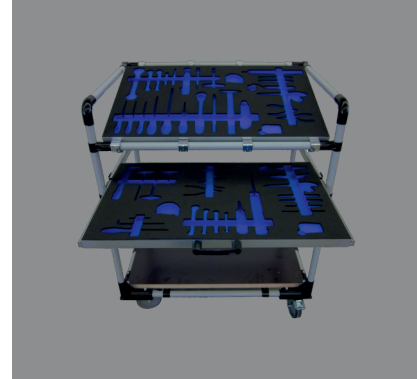


**ECO-ROHRSTECKSYSTEM ANWENDUNG**  
**ECO PIPE SYSTEM APPLICATION**  
**APPLICATION ECO-MECANO**

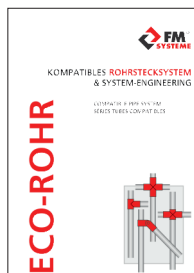


**Anwendungsbeispiele**

Application examples · Exemples d'application



Technische Änderungen vorbehalten



Für mehr Informationen  
 bitte separaten Katalog  
 anfordern!

ECO-Rohr

Please request separate  
 catalogue for more  
 information!

ECO-Rohr

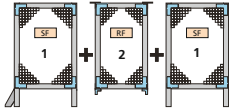
Pour plus d'informations,  
 demandez notre catalogue  
 détaillé!

ECO-Rohr

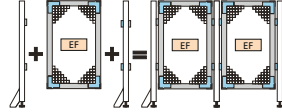
# SCHUTZ- UND TRENNSYSTEME

## PROTECTION AND SEPARATING SYSTEMS

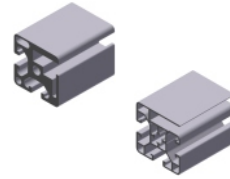
### SYSTEMES DE PROTECTION DE ZONE



■ 11.02



■ 11.06



■ 11.05



■ 11.10



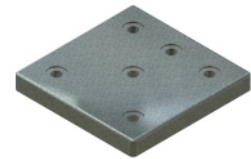
■ 11.11



■ 11.12



■ 11.13



➔ ■ 5.12



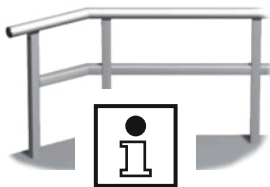
➔ ■ 5.13



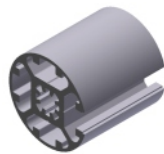
➔ ■ 8.34



■ 11.26



■ 11.19



■ 11.20



■ 11.21



■ 11.22



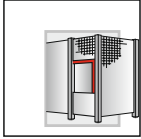
■ 11.23



■ 11.24



■ 11.25



# SCHUTZZAUNSYSTEM RB

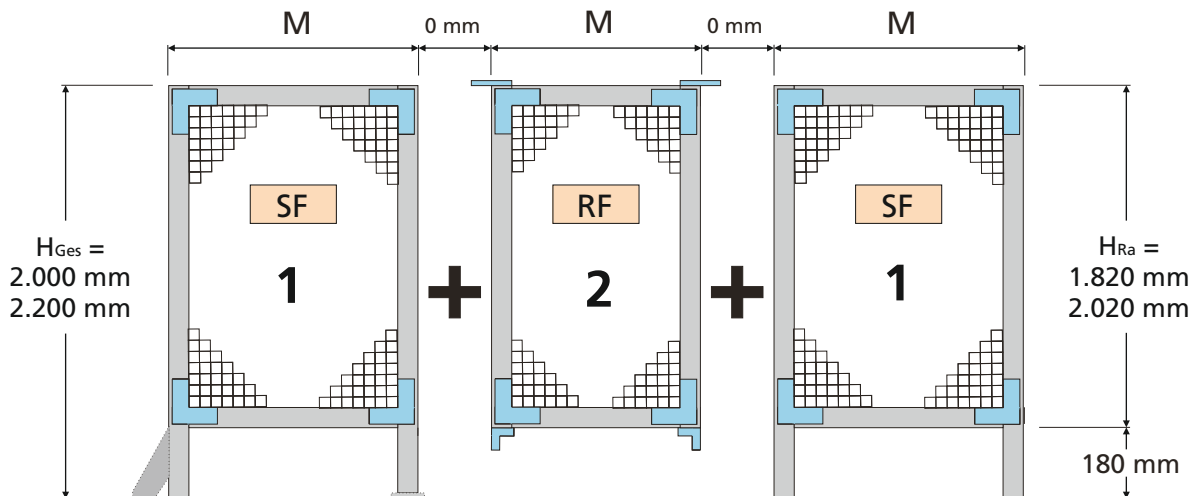
## PROTECTION FENCE SYSTEM RB

### SYSTEME DE PROTECTION RB



### Prinzipskizze

Sketch of principle · Esquisse de principe



- **Einfache Montage**  
Simple building method  
Construction plus simple

- **Günstigeres System**  
The beneficial system  
Le system plus favorable

- **Kein Spaltmaß**  
No gap  
Pas d'écart

#### Merkmale:

- Minimaler konstruktiver Aufwand durch Rasterbreiten
- Komplett **vormontierte** Ständerfelder (SF) und Rahmenfelder (RF)

#### Größen:

**Standardhöhe:** H = 2.000 mm  
**Optional:** H = 2.200 mm

**Breiten ab Lager:**  
M = 750 / 1.000 / 1.250 / 1.500 mm

**Rasterbreiten:**  
M = 300 - 2.000 mm im  
50 mm Raster

#### Flächenelement:

**Basiselement:**  
Verzinktes Wellgitter  
40 x 40 x 4 mm

#### Characteristics:

- **Simple** assembly system and Building method
- Stand fields (SF) and suspension fields (RF) are completely preassembled

#### Dimensions:

**Standard height:** H = 2.000 mm  
**Possibility:** H = 2.200 mm

**Width from stock:**  
M = 750 / 1.000 / 1.250 / 1.500 mm

**Standard width:**  
From M = 300 - 2.000 mm with  
50 mm of distance

#### Dimensional element:

**Standard element:**  
Waving lattice 40 x 40 x 4 mm,  
galvanized

#### Caracteristiques:

- Assemblage et construction **plus simple**
- Les panneaux prinicipaux (SF, RF) sont **prémontés**

#### Dimensions:

**Longueur standard:** H = 2.000 mm  
**Option:** H = 2.200 mm

**Largeur pris en magasin:**  
M = 750 / 1.000 / 1.250 / 1.500 mm

**Largeur standard:**  
De M = 300 - 2.000 mm est d'une  
distance 50 mm

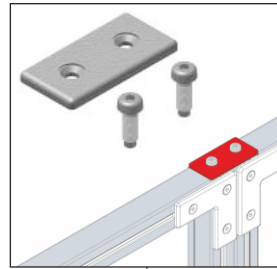
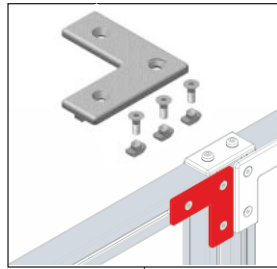
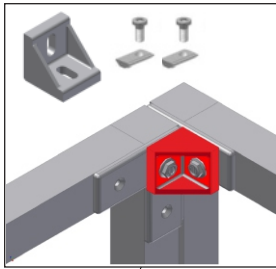
#### Élément de surface:

**Élément standard:**  
Grille ondulée, zinguée  
40 x 40 x 4 mm

# SCHUTZZAUNSYSTEM RB

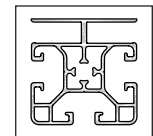
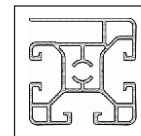
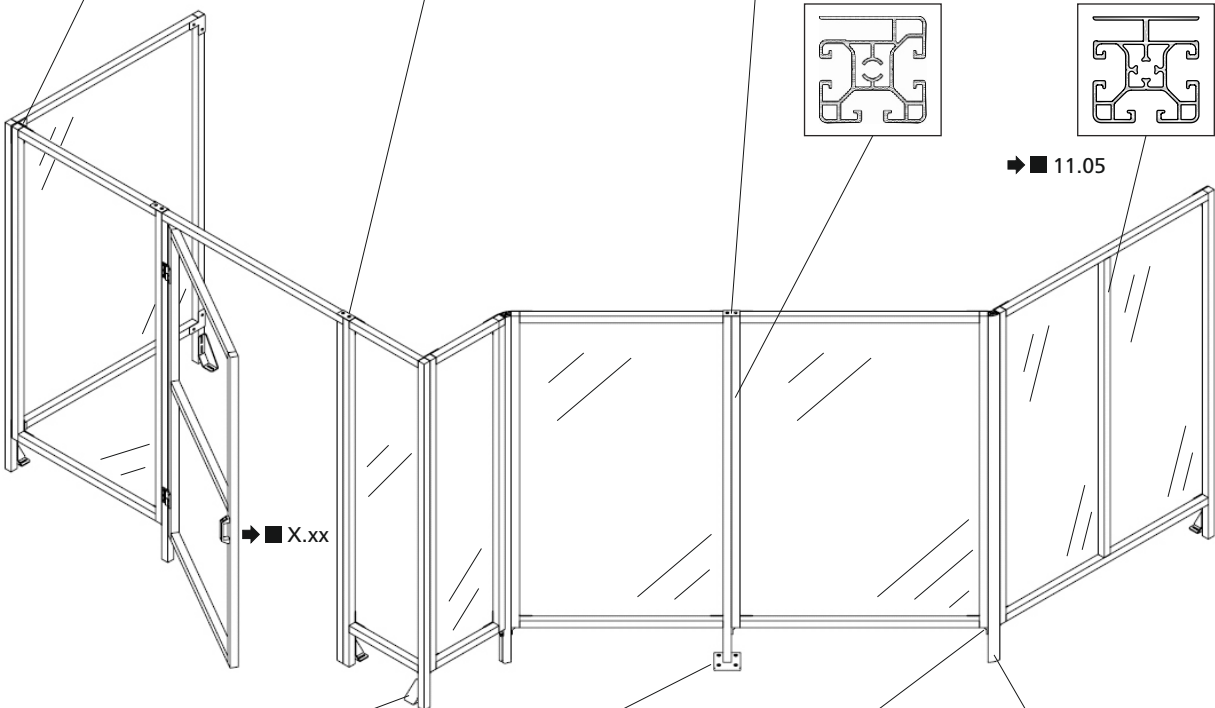
## PROTECTION FENCE SYSTEM RB

### SYSTEME DE PROTECTION RB



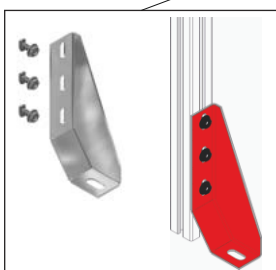
➔ ■ 3.21

➔ ■ 3.20

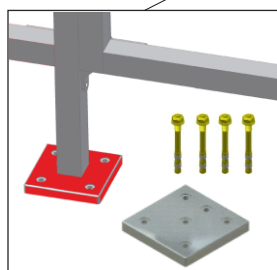


➔ ■ 11.05

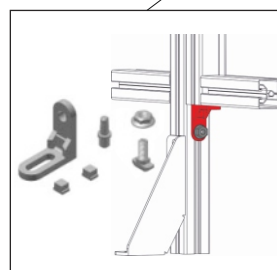
➔ ■ X.xx



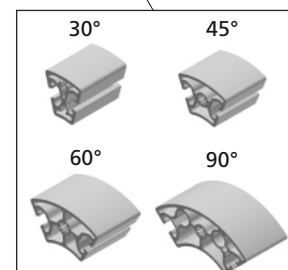
➔ ■ 5.09

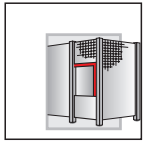


➔ ■ 5.12



➔ ■ 11.12





# SCHUTZZAUNSYSTEM RB

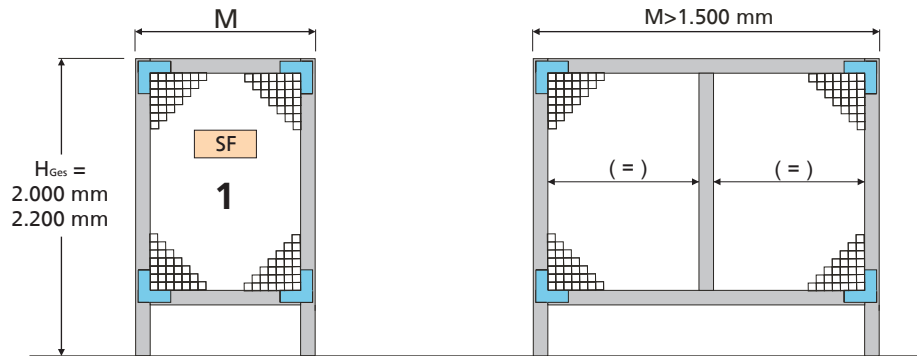
## PROTECTION FENCE SYSTEM RB

### SYSTEME DE PROTECTION RB



### Ständerfelder - SF

Stand fields (SF) · Panneaux (SF)



SF ab Lager · Width from stock · Largeur pris en magasin

H <sub>Ges</sub>	M (mm)	Art.Nr.
2.000 mm	750	05.05021.12
	1.000	05.05021.17
	1.250	05.05021.22
	1.500	05.05021.27
2.200 mm	750	05.05221.12
	1.000	05.05221.17
	1.250	05.05221.22
	1.500	05.05221.27

Rasterbreiten (50 mm) · Modular width · Largeur modular

H <sub>Ges</sub>	M	Art.Nr.
2.000 mm	xy	05.05021.xy
2.200 mm	xy	05.05221.xy

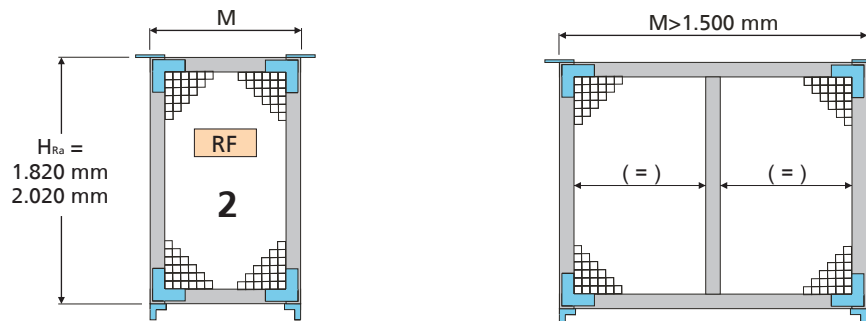
$$xy = M : 50 - 3$$

$$\text{Bsp: } M = 800 \text{ mm} \rightarrow xy = 800:50-3 = 11$$

$$300 \text{ mm} \leq M \leq 2000 \text{ mm}$$

### Rahmenfelder - RF

Suspensions fields (RF) · Panneaux (RF)



RF ab Lager · Width from stock · Largeur pris en magasin

H <sub>Ges</sub>	M (mm)	Art.Nr.
2.000 mm	750	05.05022.12
	1.000	05.05022.17
	1.250	05.05022.22
	1.500	05.05022.27
2.200 mm	750	05.05222.12
	1.000	05.05222.17
	1.250	05.05222.22
	1.500	05.05222.27

Rasterbreiten (50 mm) · Modular width · Largeur modular

H <sub>Ges</sub>	M	Art.Nr.
2.000 mm	xy	05.05022.xy
2.200 mm	xy	05.05222.xy

$$xy = M : 50 - 3$$

$$\text{Bsp: } M = 800 \text{ mm} \rightarrow xy = 800:50-3 = 11$$

$$300 \text{ mm} \leq M \leq 2000 \text{ mm}$$

Technische Änderungen vorbehalten



# SCHUTZZAUNPROFILE

## PROTECTION FENCE PROFILES

## PROFILES DE PROTECTION DE ZONE



### Innovative Vorteile:

- Einfache Montage ohne Profilbearbeitung
- Stabile Aufnahme der Wellgitter 40x40x4 ohne zusätzliche Klemmelemente
- Steigerung der Stabilität durch FM-Schutzzaunwinkel mit Zentrierfahnen

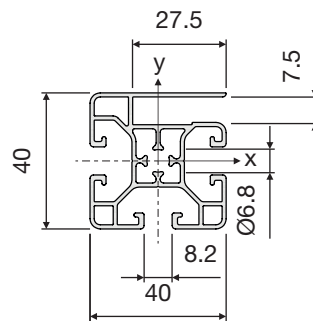
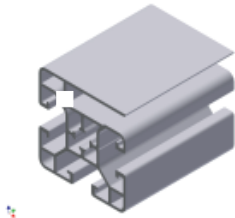
### Innovative advantages:

- Easy assembly without profile processing
- Sturdy fastening of corrugated grating 40x40x4 without additional clamping elements
- Additional stability through our protective fence angle brackets with centring lugs

### Atouts novateur:

- Montage aisé sans usinages
- Maintien du grillage ondulé 40x40x4 optimisé par la profondeur de la rainure
- Stabilité encore accrue par plaques de renfort FM

### 40x40

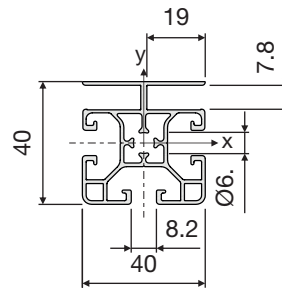
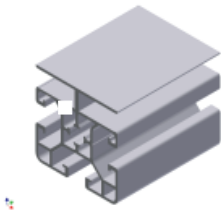


### 05.02024.00

M = 1,01 kg/m  
 $I_x = 6,17 \text{ cm}^4$   
 $W_x = 3,09 \text{ cm}^3$   
 $I_y = 5,88 \text{ cm}^4$   
 $W_y = 2,94 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

### 40x40 - 180°



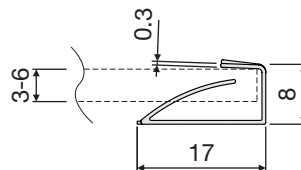
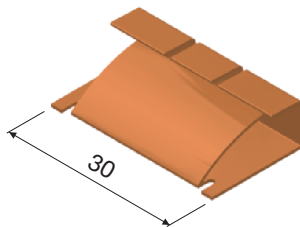
### 05.02023.00

M = 0,99 kg/m  
 $I_x = 6,04 \text{ cm}^4$   
 $W_x = 3,02 \text{ cm}^3$   
 $I_y = 5,41 \text{ cm}^4$   
 $W_y = 2,70 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

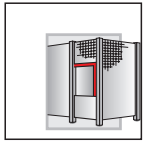
### Federklemmelement

Spring clamping element · Agrafe à ressort



### 05.02031.00

Federstahl  
 Spring steel  
 Acier ressort



# SCHUTZZAUNSYSTEM CLASSIC

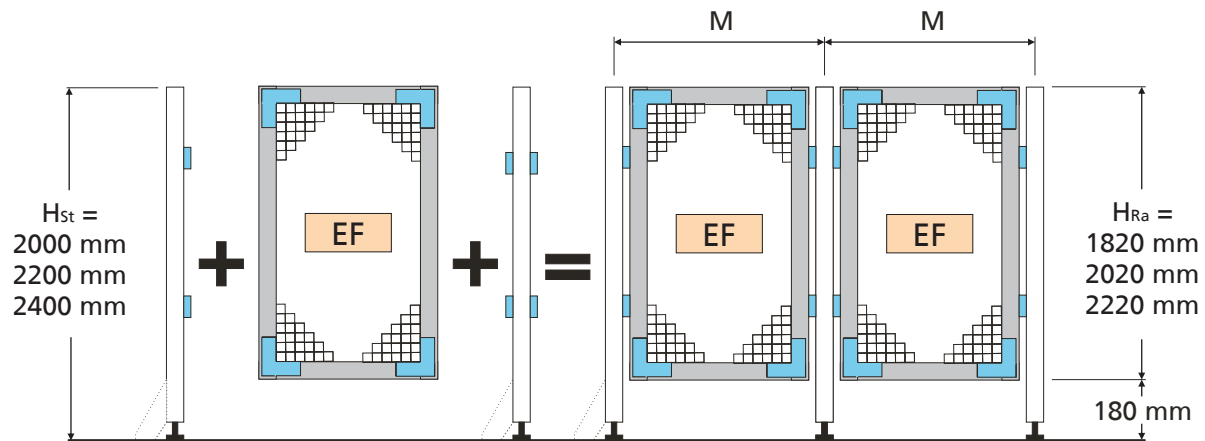
## PROTECTION FENCE SYSTEM CLASSIC

### SYSTEME DE PROTECTION CLASSIC



### Prinzipskizze

Sketch of principle · Esquisse de principe



#### ● Universelle Anordnung

Universal arrangement  
Disposition universelle

#### ● Vielseitig und variabel

Multifunctional and variable  
Multitâche et variable

#### ● Automobilsicherheit

Automobile security  
Sécurité automobile

#### Merkmale:

- Durch spezielle Einhängung schneller Zugang zum geschützten Objekt
- Umfangreiches Zubehörangebot
- Auch mit umlaufender Strebe oben lieferbar

#### Größen:

**Standardhöhe:** H = 2.000 mm  
Optional: H = 2.200 mm  
H = 2.400 mm

**Breiten ab Lager:**  
M = 750 / 1.000 / 1.250 / 1.500 mm

**Standardbreiten:**  
M = 300 – 2.000 mm im 50 mm Raster

#### Flächenelement:

**Basiselement:**  
Verzinktes Wellgitter  
40x40x4 mm

#### Characteristics:

- Special suspension for faster access to protected object
- Extensive accessories
- Also available with surrounding struts

#### Dimensions:

**Standard height:** H = 2.000 mm  
Possibility: H = 2.200 mm  
H = 2.400 mm

**Width from stock:**  
M = 750 / 1.000 / 1.250 / 1.500 mm

**Standard width:**  
From M = 300 - 2.000 mm with 50 mm of distance

#### Dimensional element:

**Standard element**  
Waving lattice 40x40x4 mm, galvanized

#### Caracteristique :

- Module facilement démontable, accessibilité aisée
- Accessoires gros
- Également disponible avec barre horizontale supérieure

#### Dimension :

**Longueur standard :** H = 2.000 mm  
Option : H = 2.200 mm  
H = 2.400 mm

**Largeur pris en magasin :**  
M = 750 / 1.000 / 1.250 / 1.500 mm

**Largeur standard:**  
De M = 300 - 2.000 mm est d'une distance 50 mm

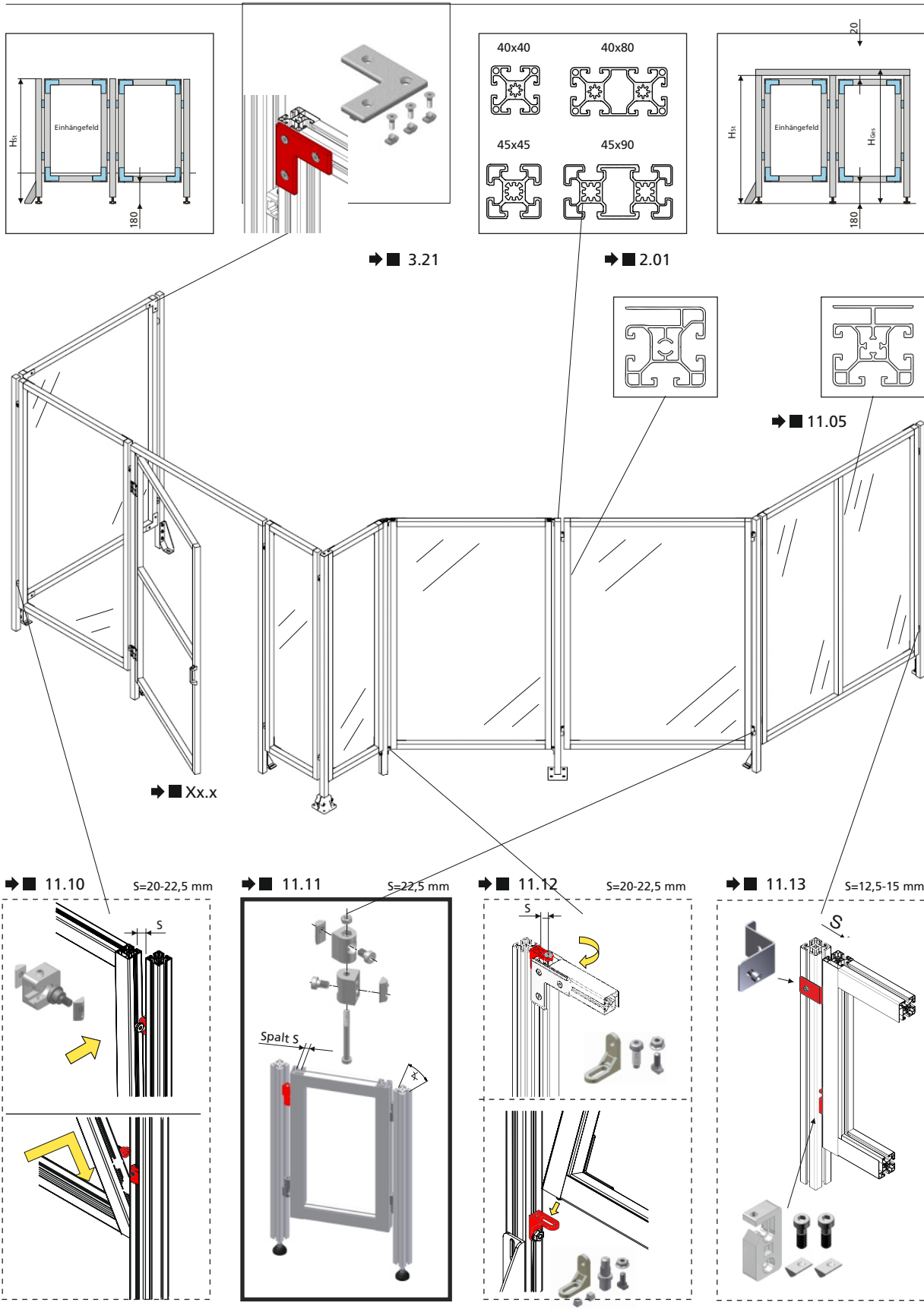
#### Élément de surface :

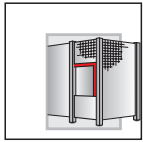
**Élément standard**  
Grille ondulée, zinguée  
40x40x4 mm

# SCHUTZZAUNSYSTEM CLASSIC

## PROTECTION FENCE SYSTEM CLASSIC

### SYSTEME DE PROTECTION CLASSIC





# SCHUTZZAUNSYSTEM CLASSIC

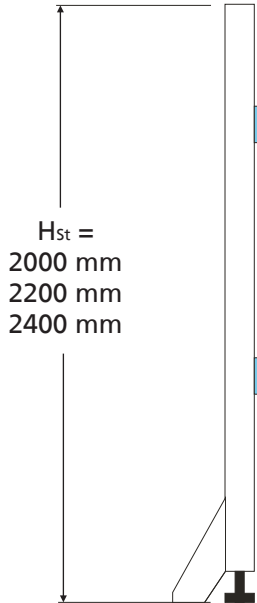
## PROTECTION FENCE SYSTEM CLASSIC

### SYSTEME DE PROTECTION CLASSIC



### System-Stützen

Pillar · Piliers



1		40 x 40 L - 1,55 kg/m 05.01035.00
5		40 x 80 L - 2,63 kg/m 05.01036.00
3		45 x 45 L - 1,70 kg/m 05.01041.00
7		45 x 90 L - 2,90 kg/m 05.01518.00

→ ■ 2.01

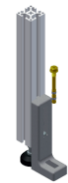
### Typ 1

→ ■ 5.08



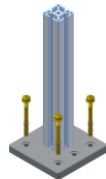
### Typ 2

→ ■ 5.10



### Typ 3

→ ■ 5.12



### Typ 5



### Bestellnummer · Order number · Numéro article

05.05 □ 51. □ □

Fußausführung · Pedestal version · Montage au sol

- 1 = Typ1
- 2 = Typ 2
- 3 = Typ 3
- 5 = Typ 5

Stützenprofil · Pillar profile · Profile pilier

- 1 = 40 x 40 L
- 5 = 40 x 80 L
- 3 = 45 x 45 L
- 7 = 45 x 90 L

Stützenhöhe · Profile height · Profile longueur

- 0 = 2.000 mm
- 2 = 2.200 mm
- 4 = 2.400 mm

Bestellbeispiel: 05.05251.33

Stützenhöhe 2.200 mm, Stützenprofil = 45x45 L, Fußausführung = Typ 3

Example for ordering: 05.05251.33

Profile height 2.200 mm, Pillar profile = 45x45 L, Pedestal version = Typ 3

Exemple de commande : 05.05251.33

Profile longueur 2.200 mm, Profile pilier = 45x45 L, Montage au sol = Typ 3

# SCHUTZZAUNSYSTEM CLASSIC

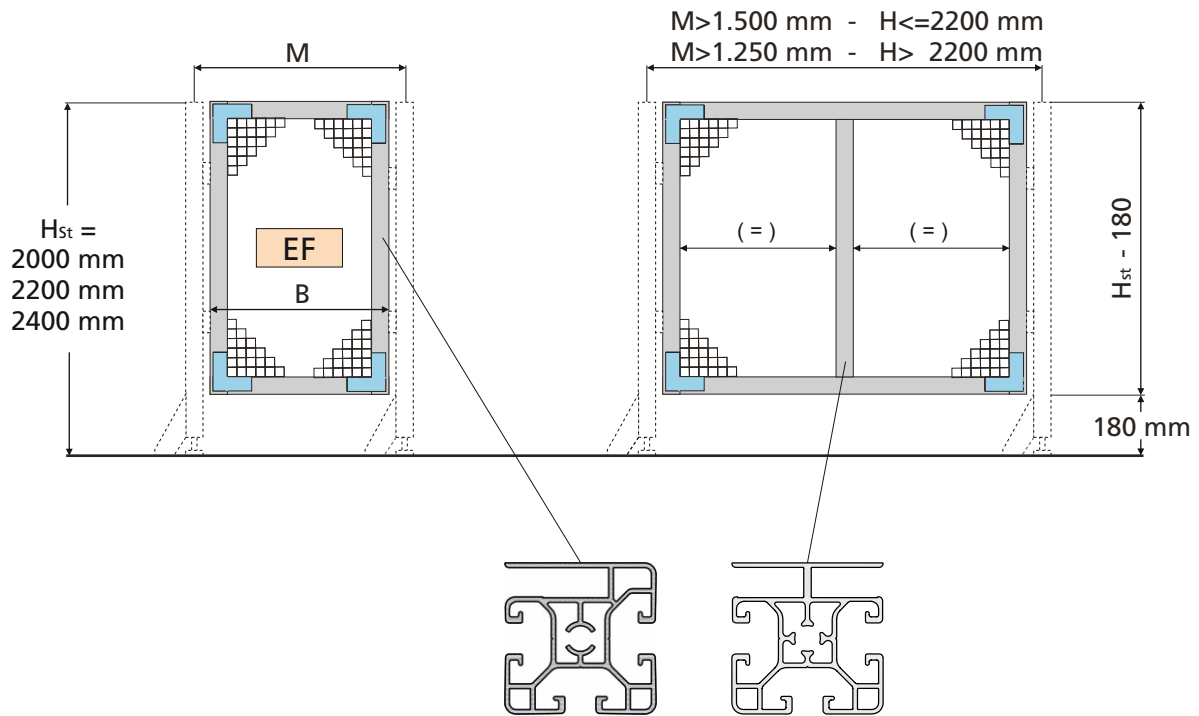
## PROTECTION FENCE SYSTEM CLASSIC

### SYSTEME DE PROTECTION CLASSIC



#### Einhängfelder - EF

Suspensions fields (EF) · Modules suspendus (EF)



➔ ■ 11.05

EF ab Lager · Width from stock · Largeur pris en magasin

H <sub>Ges</sub>	M (mm)	Art.Nr.
2.000 mm	750	05.05052.12
	1.000	05.05052.17
	1.250	05.05052.22
	1.500	05.05052.27
2.200 mm	750	05.05252.12
	1.000	05.05252.17
	1.250	05.05252.22
2.400 mm	750	05.05452.12
	1.000	05.05452.17
	1.250	05.05452.22
	1.500	05.05452.27

Rasterbreiten (50 mm) · Modular width · Largeur modular

H <sub>Ges</sub>	M	Art.Nr.
2.000 mm	xy	05.05052.xy
2.200 mm	xy	05.05252.xy
2.400 mm	xy	05.05452.xy

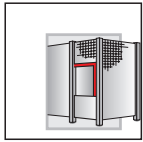
$$xy = M : 50 - 3$$

Bsp: M = 800 mm → xy = 800:50-3 = 11

$$300 \text{ mm} \leq M \leq 2000 \text{ mm}$$

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Technische Änderungen vorbehalten



# SCHUTZZAUNSYSTEM CLASSIC

## PROTECTION FENCE SYSTEM CLASSIC

### SYSTEME DE PROTECTION CLASSIC



### Classic - Einhängung

Suspension element · Élément de suspension

#### Merkmale:

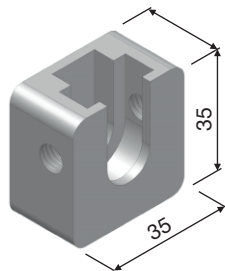
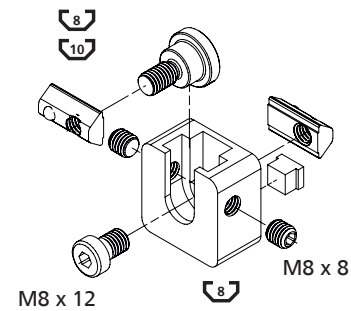
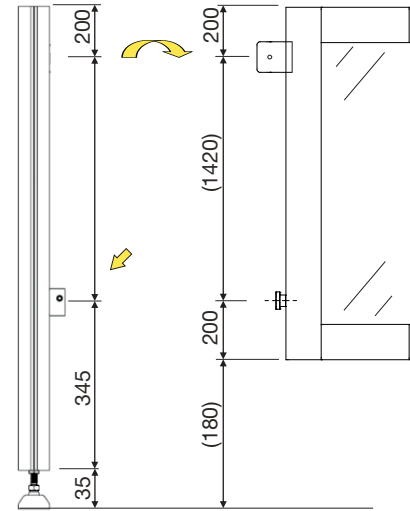
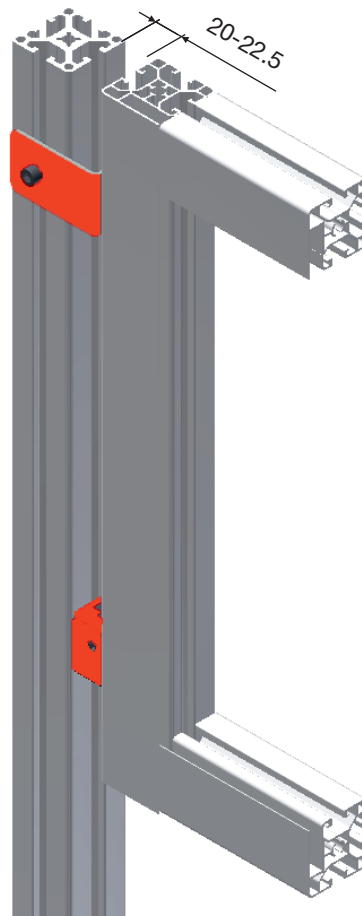
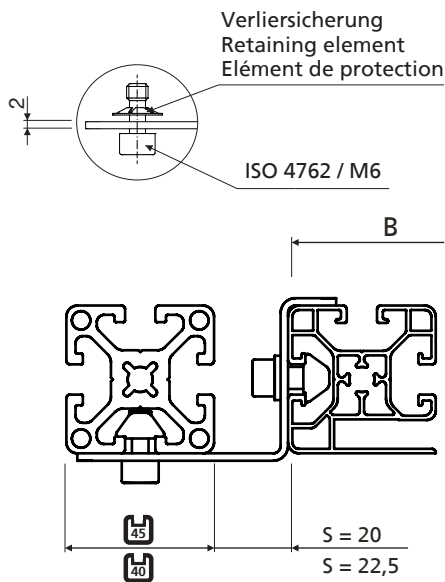
- Durch spezielle Einhängung schneller Zugang zum geschützten Objekt
- Entspricht Maschinenrichtlinie 2006 / 42 / EG
- Einfacher und schneller Aufbau
- Ein-Mann-Montage
- Spaltmaß S = 22,5 (20) mm

#### Characteristics:

- Special suspension for faster access to protected object
- Suitable to machinery directive 2006 / 42 / EG
- One man assembly
- Clearance S = 22,5 (20) mm

#### Caracteristique :

- Module facilement démontable, accessibilité aisée
- Conforme à la directive machine 2006 / 42 / EG
- Juste 1 personne nécessaire pour le système d'accrochage
- Fente S = 22,5 (20) mm



Technische Änderungen vorbehalten

		+ Anbausatz Adapter kit Kit de montage	<b>05.02014.40</b>
		+ Anbausatz Adapter kit Kit de montage	<b>05.02052.05</b>
		+ Anbausatz Adapter kit Kit de montage	<b>05.02014.20</b>
		+ Anbausatz Adapter kit Kit de montage	<b>05.02052.20</b>

# SCHUTZZAUNSYSTEM CLASSIC

## PROTECTION FENCE SYSTEM CLASSIC

### SYSTEME DE PROTECTION CLASSIC



#### Winkeleinhängung

Angle suspension element · Élément de suspension articulé

#### Merkmale:

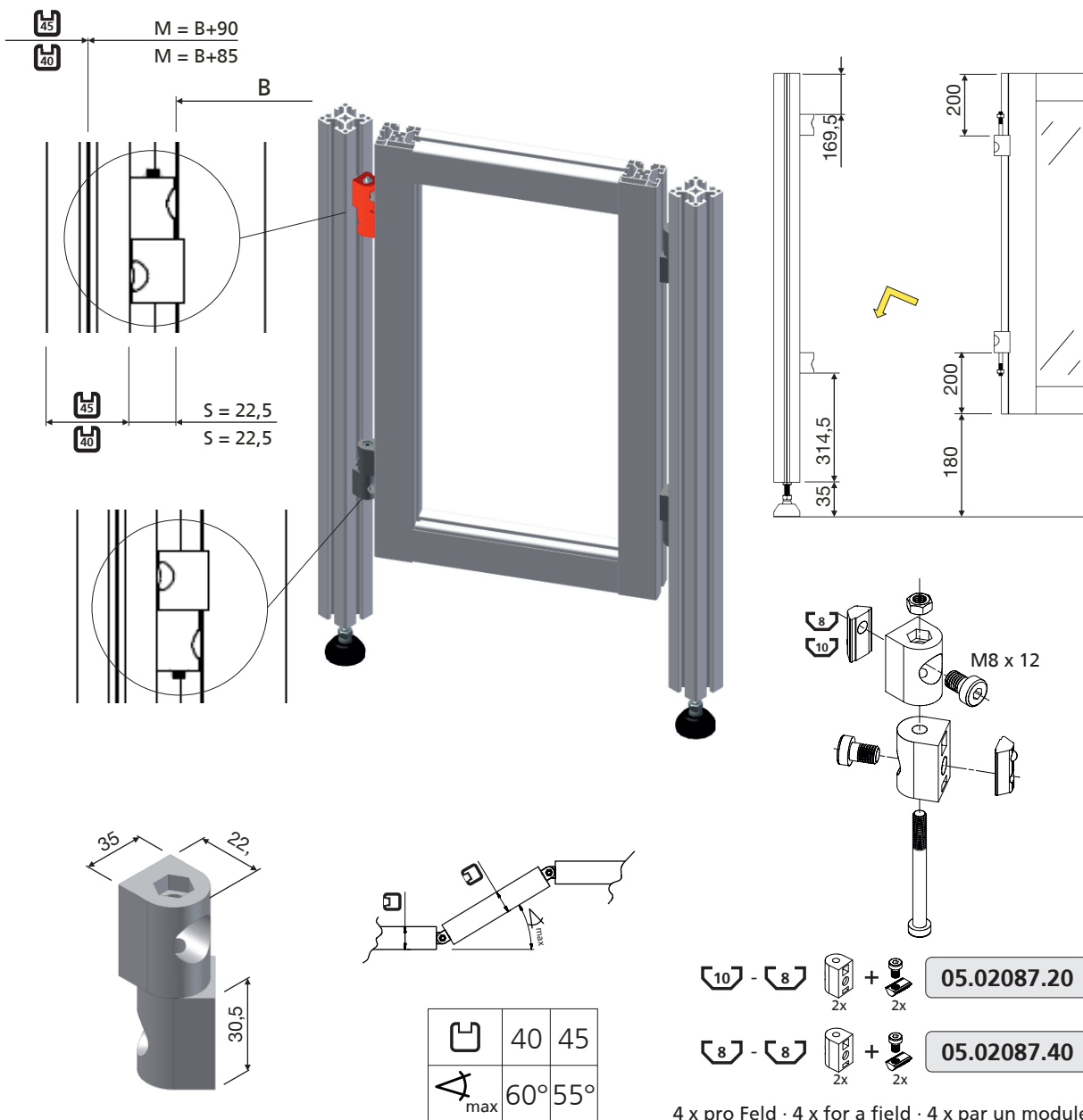
- Stützen können bis zu 60°(55°) axial verdreht und somit in eine nicht rechtwinklige Anordnung gebracht werden
- Sehr stabile Einhängung
- Spaltmaß S = 22,5 mm

#### Characteristics:

- Pillars can be axial contorted in an angle of 60°(55°)
- Very solide suspension
- Clearance S = 22,5 mm

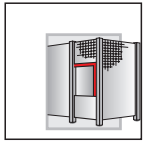
#### Caracteristique :

- Piliers peut braque axial à un angle de 60°(55°)
- Le système d'accrochage très stable
- Fente S = 22,5 mm



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Technische Änderungen vorbehalten



# SCHUTZZAUNSYSTEM UNI

## PROTECTION FENCE SYSTEM UNI

### SYSTEME DE PROTECTION UNI



### ECO Schutzzaunwinkel

ECO protective fence angle bracket · Equerre de suspension ECO

**Merkmale:**

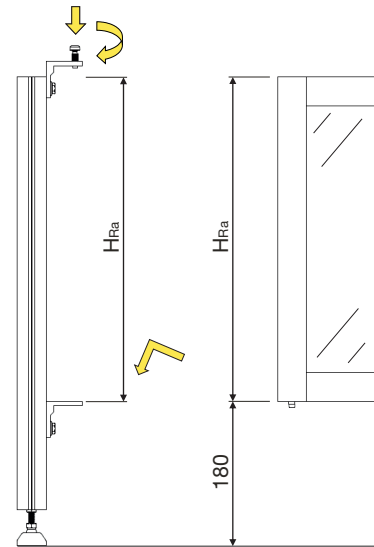
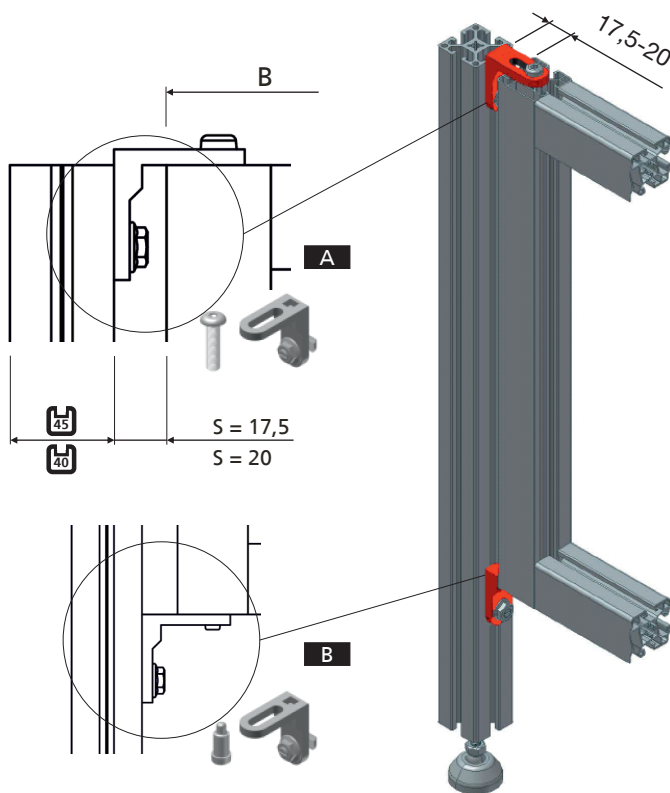
- Einhängfelder (EF) und Stützen können unter variablem Winkel montiert werden
- Einhängfelder (EF) werden bei der Montage eingehängt und mit dem Winkel oben befestigt
- Spaltmaß S = 20 (17,5) mm

**Characteristics:**

- Suspension fields (EF) and pillars can be mounted in different angle
- During assembly, suspension fields (EF) and columns are just hooked in and fastened with the FM screw
- Clearance S = 20 (17,5) mm

**Caracteristique :**

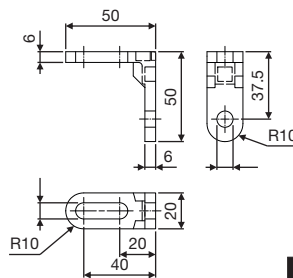
- Modules suspendus (EF) et piliers peuvent être montés à un angle variable
- Montage simple par vis FM
- Fente S = 20 (17,5) mm



FM-Schraube  
FM-Screw  
Vis FM

Einhängebolzen  
Suspension pin  
Goujon d'achrochage

Zentrierstück  
Centering piece  
Morceau de centre



GD-Zn

05.02034.00

+ + 2x 2x 05.02034.20

**A** + + 2x 1x 1x 05.02034.10

**B** + + 2x 1x 1x 05.02034.30

**A** 2 x pro Feld · 2 x for a field · 2 x par un module  
**B** 2 x pro Feld · 2 x for a field · 2 x par un module

Technische Änderungen vorbehalten



# EINHÄNGEBAUWEISE CLASSIC

## SUSPENSION CONSTRUCTION CLASSIC

### CONSTRUCTION D'ACCROCHAGE CLASSIC



#### ECO-Einhängung

ECO suspension element · Élément de suspension ECO

#### Merkmale:

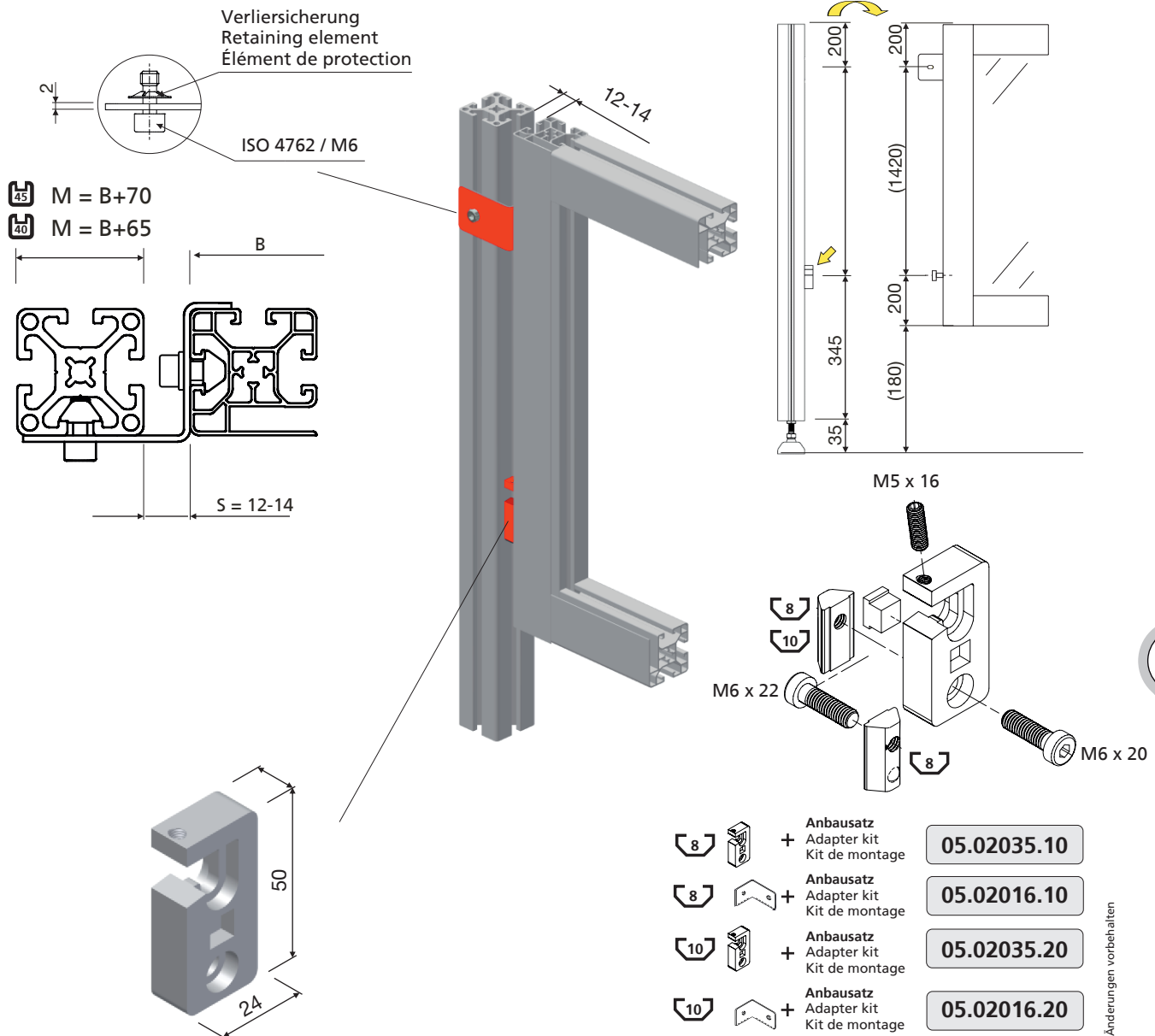
- Durch spezielle Einhängung, schneller Zugang zum geschützten Objekt
- Einfacher und schneller Aufbau
- Entspricht Maschinenrichtlinie 2006 / 42 / EG
- Ein-Mann-Montage
- Spaltmaß S = 12-14 mm

#### Characteristics:

- Special suspension for faster access to protected object
- Fast and easy assembly
- Suitable to machinery directive 2006 / 42 / EG
- One man assembly
- Clearance S = 12-14 mm

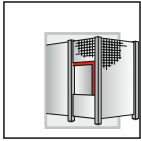
#### Caractéristique :

- Module facilement démontable, accessibilité aisée
- Le assemblage est rapide et simple
- Conforme à la directive machine 2006 / 42 / EG
- Juste une personne nécessaire pour le système d'accrochage
- Fente S = 12-14 mm



2 x pro Feld · 2 x for a field · 2 x par un module

Technische Änderungen vorbehalten

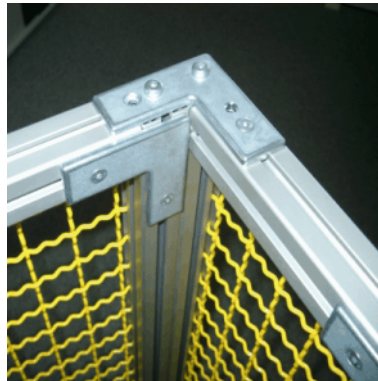


**SCHUTZZAUNSYSTEM**  
**PROTECTIVE FENCE SYSTEM**  
**SYSTEME DE PROTECTION DE ZONE**



**Anwendungsbeispiele**

Sample applications · Exemples d'application



Technische Änderungen vorbehalten



Für mehr Informationen  
 bitte separaten Katalog  
 anfordern!

**Schutzzaunkatalog**

Please request separate  
 catalogue for more  
 information!

**Protective Fence catalogue**

Pour plus d'informations,  
 demandez notre catalogue  
 détaillé!

**Système de protection de  
 zone catalogue**

# SCHALLSCHUTZ SOUND INSULATION INSONORISATION



Laute Lärmquellen müssen mit geeigneten Schalldämmverkleidungen umbaut werden, um die Personenschutzvorschriften zu erfüllen.

FM SYSTEME bietet mit der modularen Dämmplatte in Verbindung mit dem Clips-Einfassprofil sowie dem Aluprofilsystem Baureihe 45 ein kostengünstiges Gesamtsystem.

### Innovative Vorteile:

- Erleichterte Planung durch Standardelemente
- Schneller und effizienter Aufbau der Schallschutzkabinen
- Schall-Absorption und Schalldämmung in einem Element
- Einbau von Schallschutz-Fenstern möglich
- Planung und Ausführung durch FM-Systeme möglich

Loud sources of noise must be surrounded with suitable sound insulation panels in order to fulfill staff protection regulations.

FM SYSTEME offers an economic overall system with the modular sound insulation panels in combination with the clip fastening system, as well as the 45 series aluminium profile system.

### Innovative advantages:

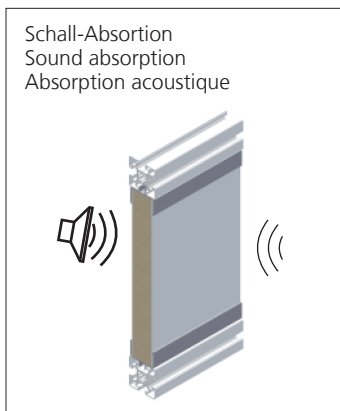
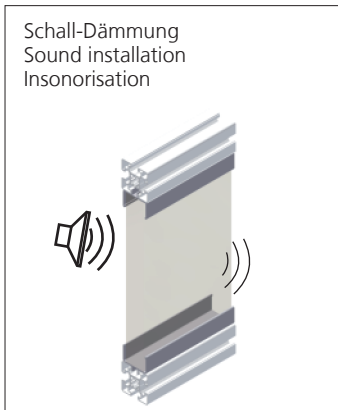
- Easy planning with standard elements
- Faster and more efficient erection of the sound insulation cabins
- Sound absorption and sound insulation in one element
- Installation of sound insulation windows possible
- Planning and installation by FM Systeme possible

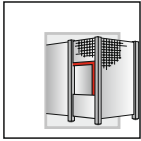
Le respect des prescriptions sur la protection des personnes implique la mise en place d'isolations acoustiques adaptées en cas de nuisances sonores.

FM SYSTEME propose un système complet comprenant des panneaux isolants modulaires adaptés au profilé d'encadrement clipsé pour la série rainure 45.

### Atouts novateur:

- Conception facilitée par la mise en oeuvre d'éléments standard
- Réalisation rapide et efficace des cabines d'insonorisation
- Absorption acoustique et insonorisation optimisées
- Montage de isolation phonique possible
- Implantation et réalisation par FM Systeme



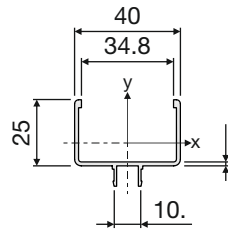
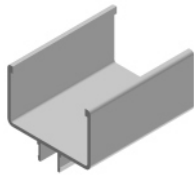


# SCHALLSCHUTZ SOUND INSULATION INSONORISATION



## Clip-Einfassprofil

Clip fastening profile · Profilé d'encadrement

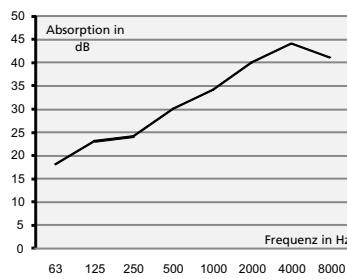
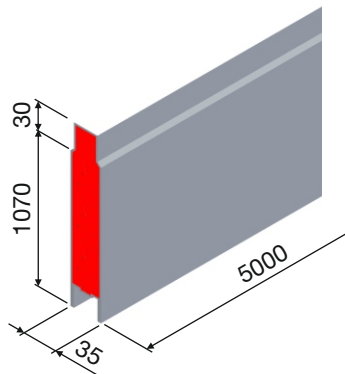


05.02250.00

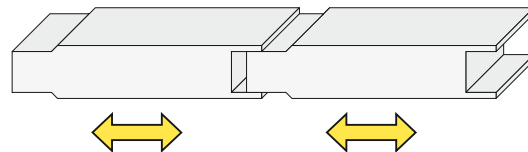
M = 0,41 kg/m

## Schalldämmplatte

Insulating panel · Panneau iso

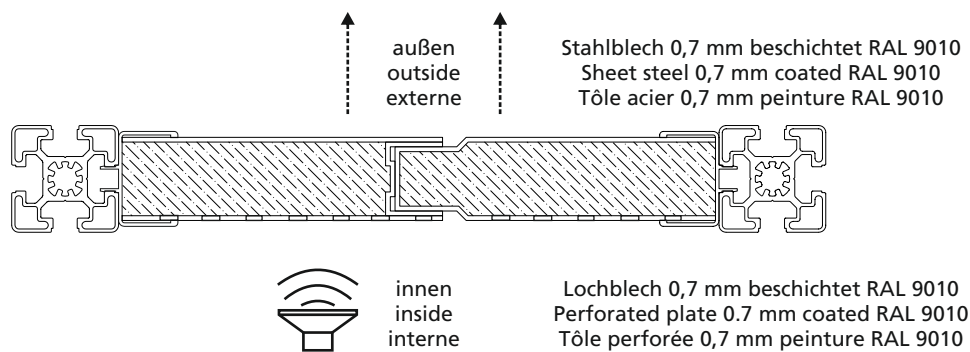


05.02251.00



## Querschnitt

Cross-section · Section



Technische Änderungen vorbehalten

# RUNDPROFILSYSTEM Ø48

## ROUND PROFILE SYSTEM Ø48

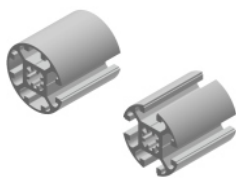
### PROFILES RONDS Ø48



- Formschönes Design
- Im Außen- u. Innenbereich einsetzbar
- Aufnahme von verschiedenen Flächenelementen
- Als Handlauf und als Maschinenabtrennung
- Für Geländer an Treppen, Podesten, Balkone

- Elegant design
- Suitable for use in- and outdoor
- For securing a variety of panel elements
- As handrail and as machine separation
- For railings on stairways and ramps, balconies

- Bien design
- Application intérieure ou extérieure
- Panneaux de remplissage de tous types
- Main-courante d'escalier
- Garde-corps d'estrade et de balcon, séparateur d'espaces



■ 11.20



■ 11.21



■ 11.22



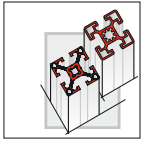
■ 11.24



■ 11.23



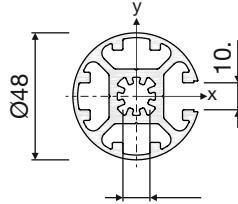
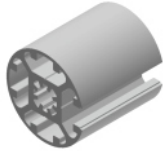
■ 11.25



**RUNDPROFILE Ø48**  
**ROUND PROFILES Ø48**  
**PROFILES RONDS Ø48**



**Ø48-3N**

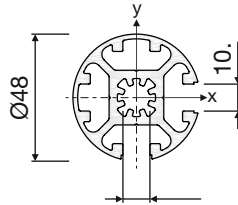
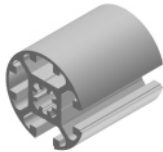


**05.02090.00**

M = 2,03 kg/m  
 $I_x = 11,71 \text{ cm}^4$   
 $W_x = 4,88 \text{ cm}^3$   
 $I_y = 12,82 \text{ cm}^4$   
 $W_y = 5,34 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

**Ø48-2N90°**

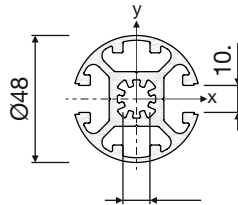


**05.02091.00**

M = 1,97 kg/m  
 $I_x = 10,65 \text{ cm}^4$   
 $W_x = 4,43 \text{ cm}^3$   
 $I_y = 12,79 \text{ cm}^4$   
 $W_y = 5,32 \text{ cm}^3$

PE (m)  
 3

**Ø48-2N180°**

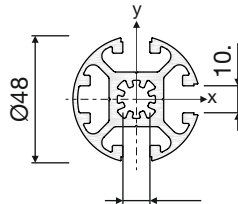
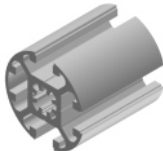


**05.02092.00**

M = 1,97 kg/m  
 $I_x = 10,65 \text{ cm}^4$   
 $W_x = 4,43 \text{ cm}^3$   
 $I_y = 12,79 \text{ cm}^4$   
 $W_y = 5,32 \text{ cm}^3$

PE (m)  
 6 / 48 / 96 / 144

**Ø48-1N**

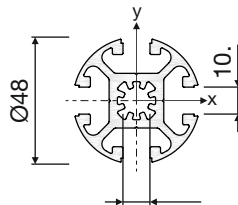
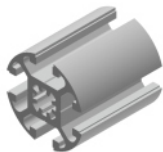


**05.02093.00**

M = 1,92 kg/m  
 $I_x = 11,66 \text{ cm}^4$   
 $W_x = 4,85 \text{ cm}^3$   
 $I_y = 10,62 \text{ cm}^4$   
 $W_y = 4,42 \text{ cm}^3$

PE (m)  
 3

**Ø48**

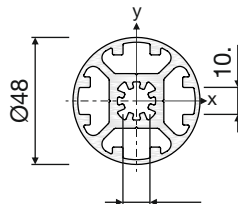
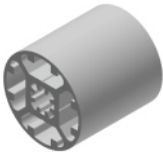


**05.02088.00**

M = 1,86 kg/m  
 $I_x = 11,60 \text{ cm}^4$   
 $W_x = 4,42 \text{ cm}^3$   
 $I_y = 11,60 \text{ cm}^4$   
 $W_y = 4,42 \text{ cm}^3$

PE (m)  
 3

**Ø48-4N**



**05.02089.00**

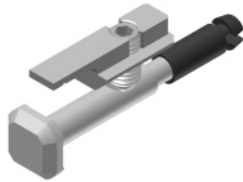
M = 2,09 kg/m  
 $I_x = 12,83 \text{ cm}^4$   
 $W_x = 5,35 \text{ cm}^3$   
 $I_y = 12,83 \text{ cm}^4$   
 $W_y = 5,35 \text{ cm}^3$

PE (m)  
 3

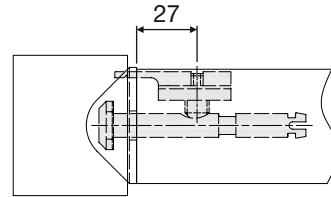
Technische Änderungen vorbehalten

**VERBINDUNGSELEMENTE**  
**CONNECTING ELEMENTS**  
**ELEMENTS DE JONCTION**

**AGV**



➔ ■ 3.04

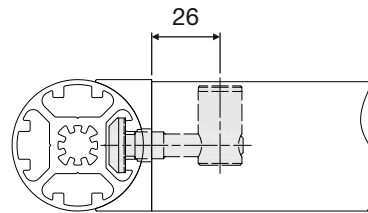


05.01782.00

**GV**

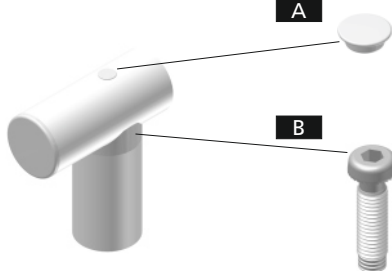


➔ ■ 3.02



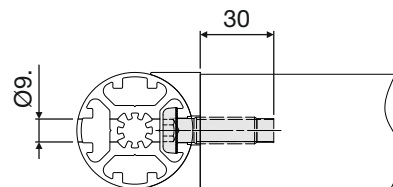
05.01352.00

**SF 12x40**



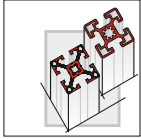
PA 6  
 lichtgrau  
 light grey  
 gris clair

➔ ■ 3.18



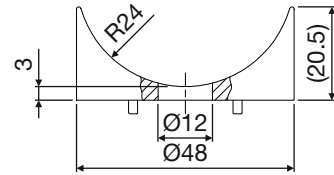
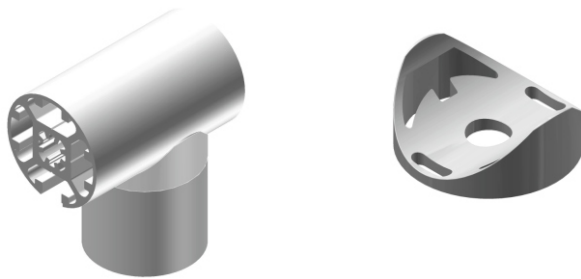
**A** 05.01023.00

**B** 05.01127.00



### Radienausgleich Ø48

Radius compensation Ø48 · Compensateur de rayon Ø48

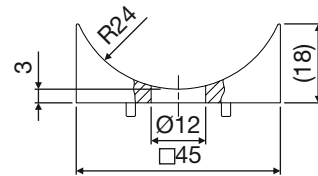
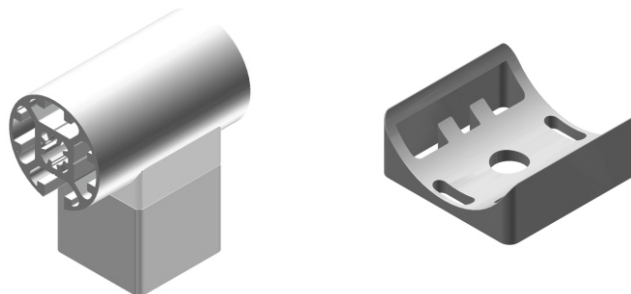


PA 6  
lichtgrau  
light grey  
gris clair

**05.02094.00**

### Radienausgleich 45x45

Radius compensation 45x45 · Compensateur de rayon 45x45

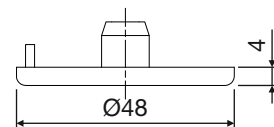


PA 6  
lichtgrau  
light grey  
gris clair

**05.02095.00**

### Abdeckkappe Ø48

Covering cap Ø48 · Cache Ø48



PA 6  
lichtgrau  
light grey  
gris clair

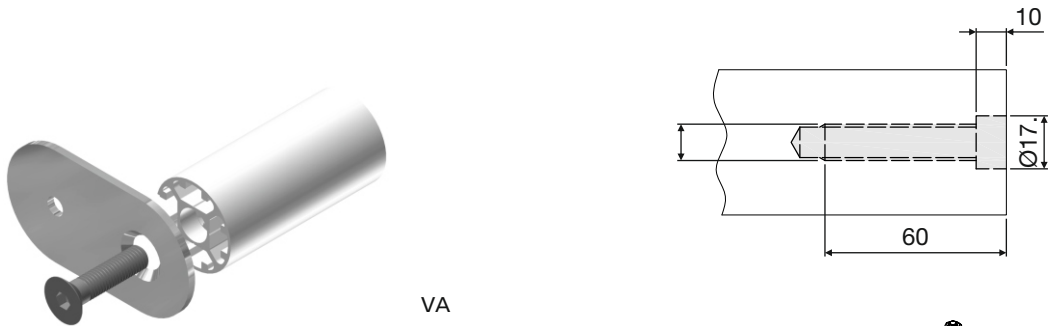
**05.02097.00**



**BODENBLECHE**  
**BASE PANELS**  
**PLAQUES**



10

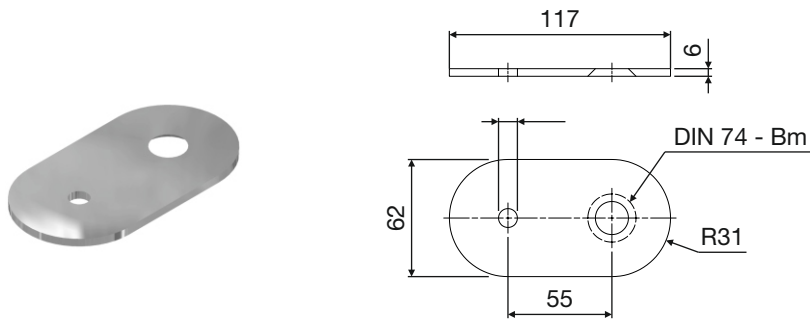


VA  
 elektropliert  
 electropolished  
 électro-astiquer

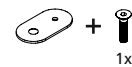


05.01172.00

**62x117**

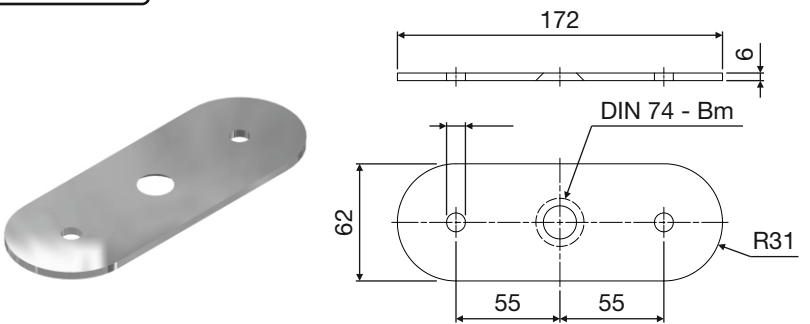


05.02280.00

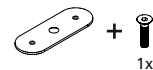


05.02280.05

**62x172**

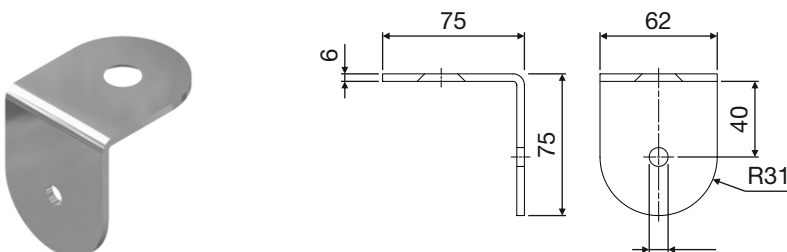


05.02281.00

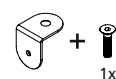


05.02281.05

**90° - 62x75x75**



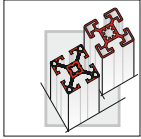
05.02282.00



05.02282.05

Technische Änderungen vorbehalten

11

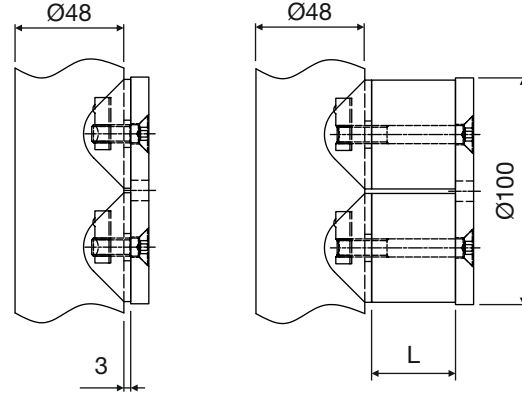


**BODENBEFESTIGUNG**  
**BASE FASTENING**  
**ANCRAGE AU SOL**

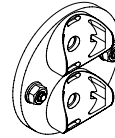


**Wandbefestigung Ø100**

Pipe base clamp · Embase d'ancrage



VA  
 elektropoliert  
 electropolished  
 électro-astiquer



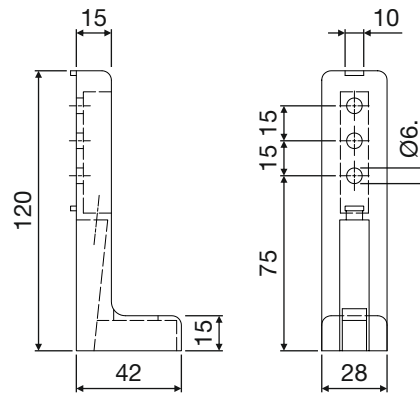
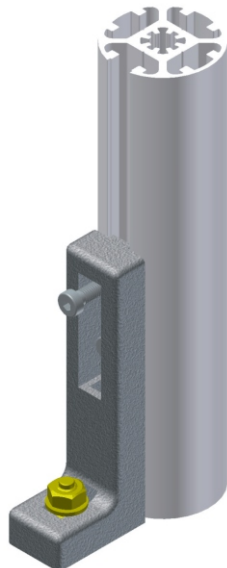
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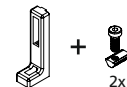
L= mm 05.02372.00

**Bodenwinkel 30x120 - 10**

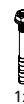
Base bracket 30x120 - 10 · Equerre d'ancrage 30x120 - 10



GD-Zn  
 Blank  
 Bare  
 Brut



05.02199.05



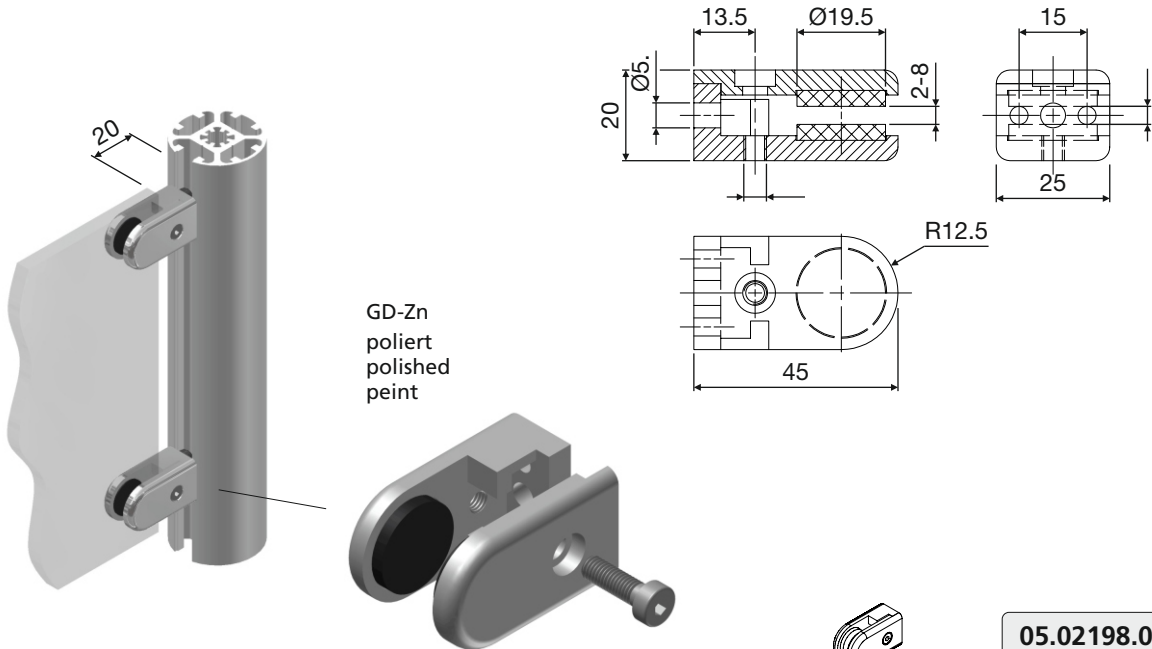
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

➔ ■ 5.06

Technische Änderungen vorbehalten

**Glashalter**

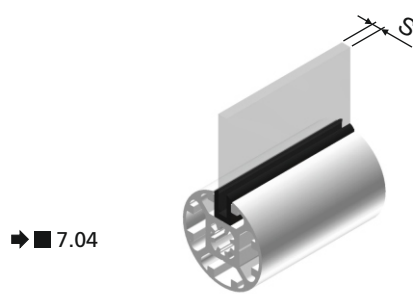
Glass holder · Porte-verre



-  **05.02198.00**
-  +  1x **05.02198.05**

**Dichtprofil**

Sealing profile · Joint de profil

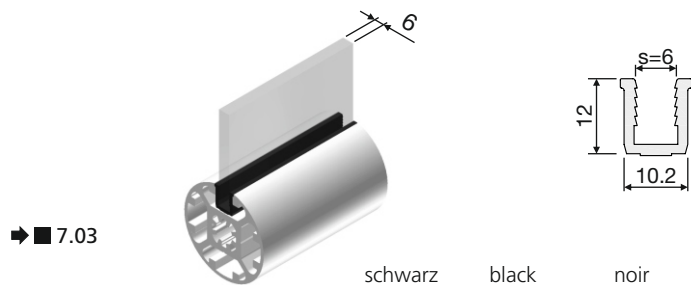


→ ■ 7.04

- S
- 2 mm **05.02070.00**
- 4 mm **05.02071.00**
- 5 mm **05.02072.00**
- 6 mm **05.02075.00**

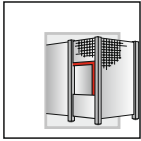
**Abdeck- und Einfassprofil**

Covering and fastening profile · Clapet de couvercle et profil à border



→ ■ 7.03

- schwarz    black    noir    9011    **05.01187.00**



# SCHUTZZAUNSYSTEM RIEGEL

## PROTECTIVE FENCE SYSTEM INTERLOCK

### FERMETURE DE PROTECTION DE ZONE PAR VERROU



#### Merkmale:

- Geeignet für Euchner Sicherheits-schalter der Serie TZ und NZ
- Für rechts und links anschlagende Türen und Fenster
- Anbau an Nut 8 und Nut 10
- Für Schwenk- und Schiebetüren geeignet

#### Characteristics:

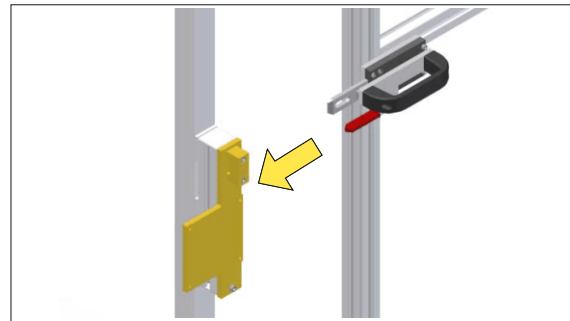
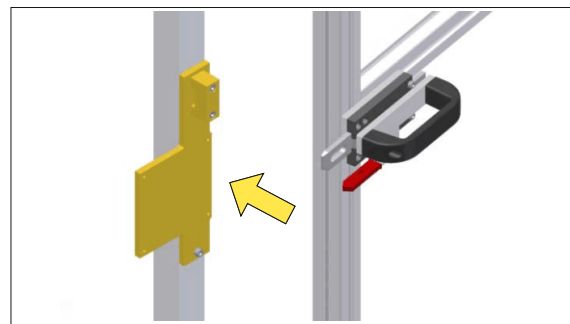
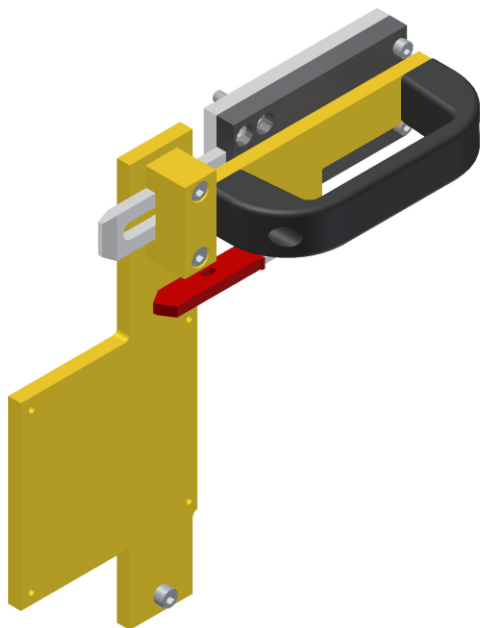
- Suitable for Euchner safety switches of the TZ and NZ series
- For right and left closing doors
- Mounting on groove 8 and groove 10
- Suitable for swivel and sliding doors

#### Caractéristiques:

- Compatible avec contacteurs de sécurité Euchner TZ, NZ et similaires
- Pour portes battantes et coulissantes gauche et droite
- Pour rainures 8 et 10
- Pour la porte battante et coulissante convenable

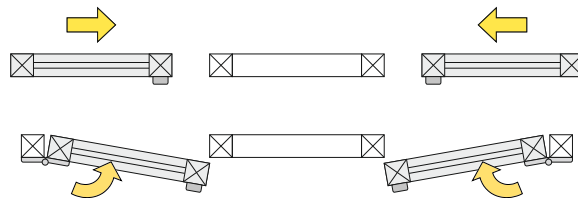
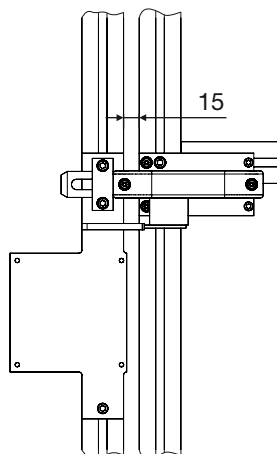
## Anwendung

Application · Application



## Ausführung

Model · Type



**Anschlag links**  
Closing left  
Version gauche

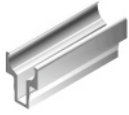
05.02039.10

**Anschlag rechts**  
Closing right  
Version droite

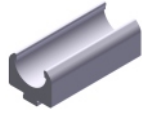
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Technische Änderungen vorbehalten

**LINEARFÜHRUNGEN**  
 LINEAR GUIDING SYSTEM  
 GUIDAGE LINEAIRE SYSTEM



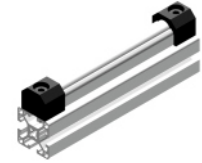
■ 12.04



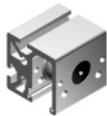
■ 12.04



■ 12.04



■ 12.05



■ 12.05



■ 12.05



■ 12.06



■ 12.06



■ 12.06



■ 12.08



■ 12.08



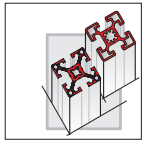
■ 12.08



■ 12.09



■ 12.09



# LINEARFÜHRUNGSSYSTEM LINEAR GUIDING SYSTEM GUIDAGE LINEAIRE SYSTEM



### Innovative Vorteile:

- System zum Aufbau von Führungsschlitten und Lineareinheiten für spielfrei laufende Systeme in Verbindung mit Welle Ø14
- Ein geschliffener Führungsradius erlaubt eine hohe Kraftübertragung zur Welle

### Innovative advantages:

- Systeme for the installation of linear guiding systems in connection with axle Ø14
- A grounded radius allows a high power transmission to the axle

### Atouts novateur :

- Systeme pour la guidage lineaire avec connexion pivot Ø14
- Un radius rectifié permetre une transmission d'énergie forte

## Anwendungen

Applications · Applications

### Zul. empfohlene Lasten:

F1 = 1500 N  
F2 = 3000 N  
F3 = 1500 N

### Rated loads:

F1 = 1500 N  
F2 = 3000 N  
F3 = 1500 N

### Charges utiles :

F1 = 1500 N  
F2 = 3000 N  
F3 = 1500 N

### Laufleistung bei max. Last:

10.000 km

### Service life at max. load:

10.000 km

### Intervale de service :

10.000 km

### Max. Geschwindigkeit:

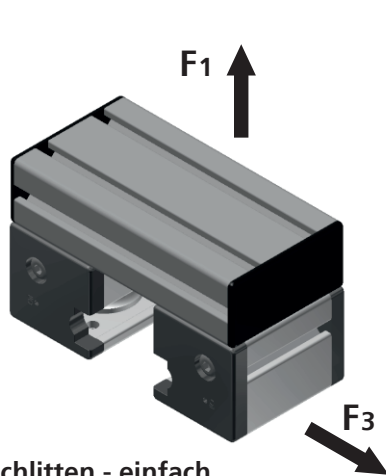
10 m/sec

### Max. speed:

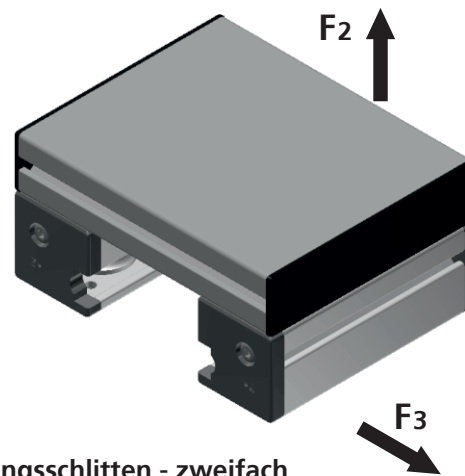
10 m/sec

### Vitesse maximale :

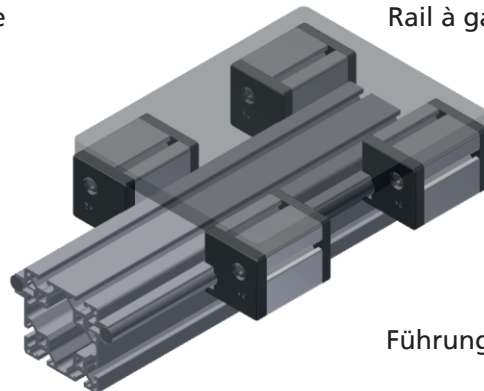
10 m/sec



Führungsschlitten - einfach  
Guide block - single  
Rail à galts simple



Führungsschlitten - zweifach  
Guide block - dual  
Rail à galts double



Führungsschlitten - individuell

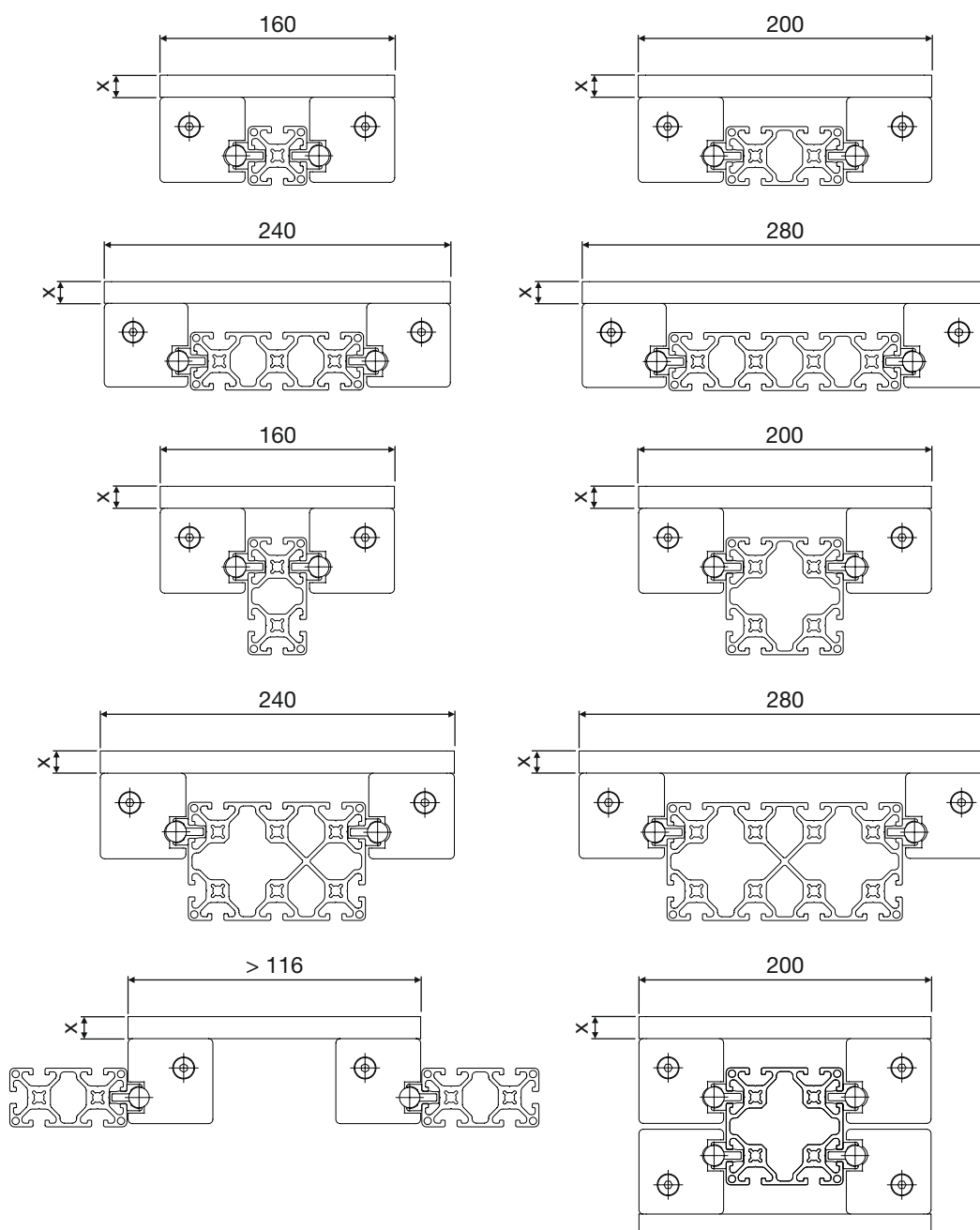
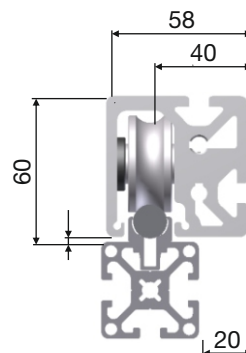
Technische Änderungen vorbehalten

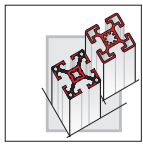
# LINEARFÜHRUNGSSYSTEM

## LINEAR GUIDING SYSTEM

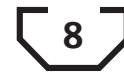
### GUIDAGE LINEAIRE SYSTEM

- Grundkonstruktionen aus Profilen der Profilverihe 40 / Nut 8 mit Rollenführung auf Welle Ø14
- Basic constructions made of profiles 40 / profile groove 8 with roller guidance on shaft Ø14
- Constructions de base a partir de profilé 40 / rainure de profilé 8 avec rouleau de conseil sur l'arbre Ø14





# LINEARFÜHRUNGSSYSTEM LINEAR GUIDING SYSTEM GUIDAGE LINEAIRE SYSTEM

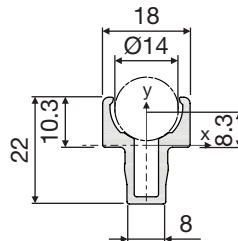
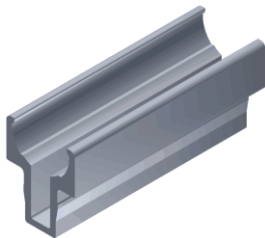


## Wellenklemmprofil

Shaft clamp profile · Profile support arbre



05.01030.00



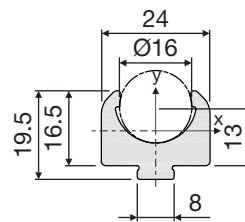
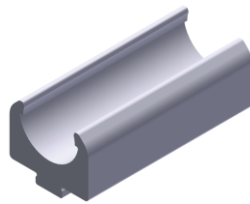
M = 0,31 kg/m  
 $I_x = 0,39 \text{ cm}^4$   
 $W_x = 0,35 \text{ cm}^3$   
 $I_y = 0,38 \text{ cm}^4$   
 $W_y = 0,34 \text{ cm}^3$

PE (m)  
 3 / 6

## Ø 16



05.02130.00



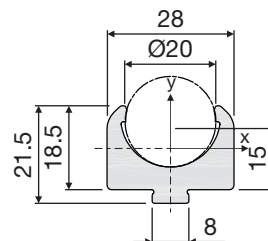
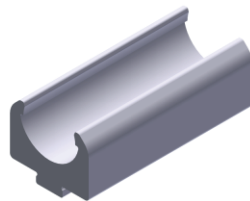
M = 2,20 kg/m  
 $I_x = 12,50 \text{ cm}^4$   
 $W_x = 5,63 \text{ cm}^3$   
 $I_y = 19,36 \text{ cm}^4$   
 $W_y = 6,53 \text{ cm}^3$

PE (m)  
 6 / 48 / 96

## Ø 20



05.02131.00

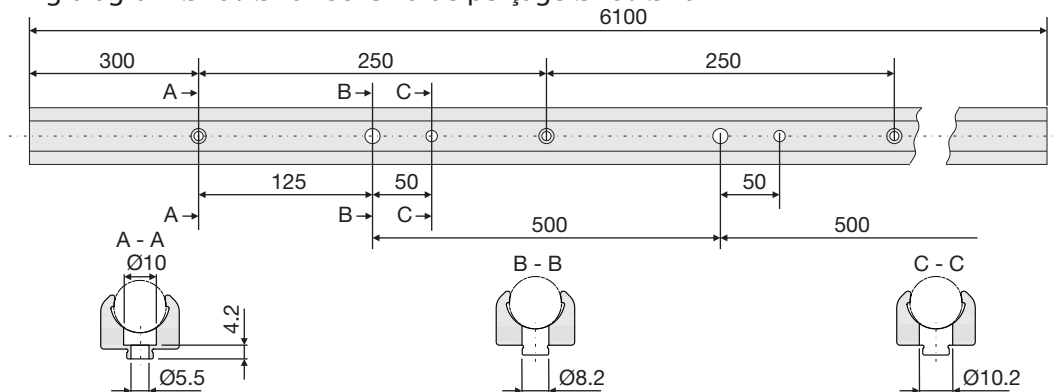


M = 2,78 kg/m  
 $I_x = 16,45 \text{ cm}^4$   
 $W_x = 6,76 \text{ cm}^3$   
 $I_y = 41,28 \text{ cm}^4$   
 $W_y = 10,62 \text{ cm}^3$

PE (m)  
 6 / 48 / 96

## Bohrbild Ø16 / Ø20

Drilling diagram Ø16 / Ø20 · Schéma de perçage Ø16 / Ø20



Technische Änderungen vorbehalten



# LINEARFÜHRUNGSSYSTEM

## LINEAR GUIDING SYSTEM

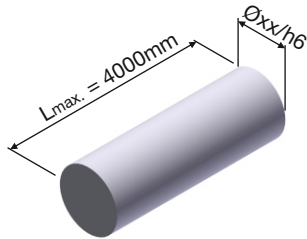
### GUIDAGE LINEAIRE SYSTEM



8

#### Welle Ø14, Ø16, Ø20

Shaft Ø14, Ø16, Ø20 · Arbre Ø14, Ø16, Ø20



#### Welle

- CF53, gehärtet, geschliffen
- Härte 59+6 HRC
- Rauheit Ra = 0,35µm

#### Shaft

- CF53, hardened, ground
- Hardness 59+6 HRC
- Roughness Ra=0.35µm

#### Arbre

- CF53, trempé, rectifié
- Dureté 59+6 HRC
- Rugosité Ra=0,35µm

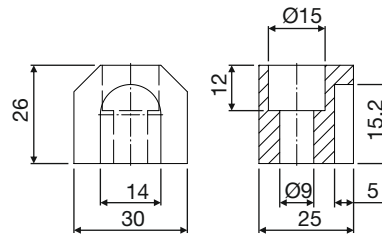
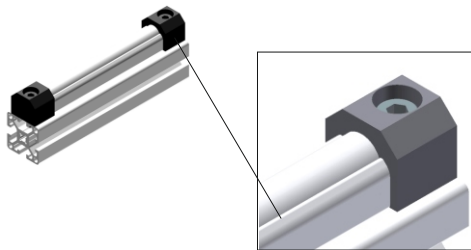
Ø14 **05.01031.00**

Ø16 **05.02134.00**

Ø20 **05.02135.00**

#### Wellenendstück

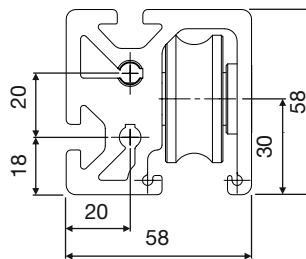
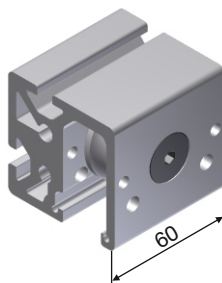
Axial stop · Butée axiale



**05.02136.05**

#### Lagereinheit 8 Ø14 - einfach

Bearing unit 8 Ø14 - single · Unité de roulement 8 Ø14 - simple

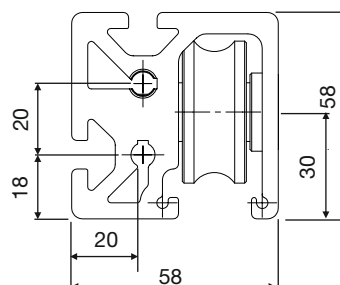
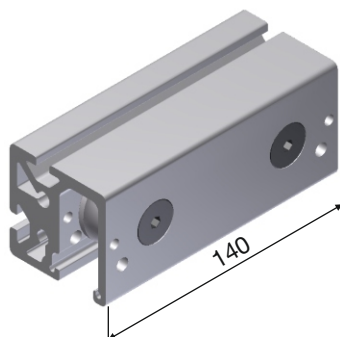


zentrisch **05.02403.00**

exzentrisch **05.02404.00**

#### Lagereinheit 8 Ø14 - zweifach

Bearing unit 8 Ø14 - double · Unité de roulement 8 Ø14 - double

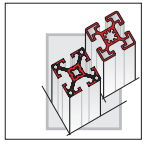


zentrisch **05.02405.00**

exzentrisch **05.02406.00**

12

Technische Änderungen vorbehalten



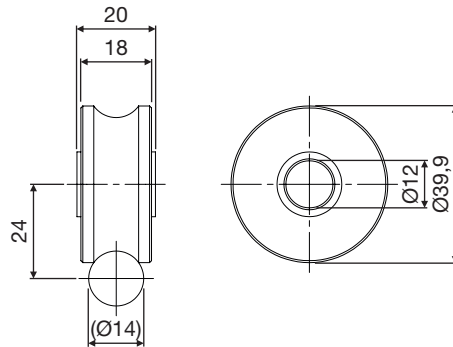
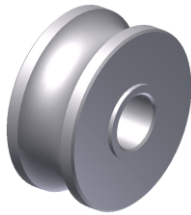
**LINEARFÜHRUNGSSYSTEM**  
**LINEAR GUIDING SYSTEM**  
**GUIDAGE LINEAIRE SYSTEM**



**Laufrolle Ø14**

Roller Ø14 · Rouleau Ø14

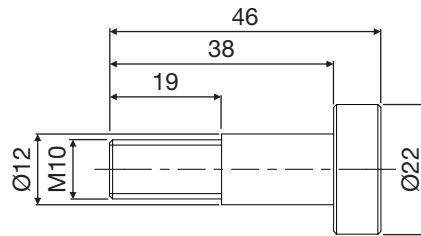
05.02408.00



**Lagerbolzen 8 Ø14 - zentrisch**

Bolt 8 Ø14 - central · Boulon 8 Ø14 - central

05.02409.00

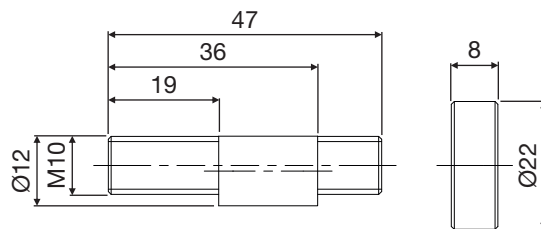


- Stahl, schwarz
- Steel, black
- Acier, noire

**Lagerbolzen 8 Ø14 - exzentrisch**

Bolt 8 Ø14 - excentric · Boulon 8 Ø14 - excentrique

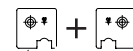
05.02410.00



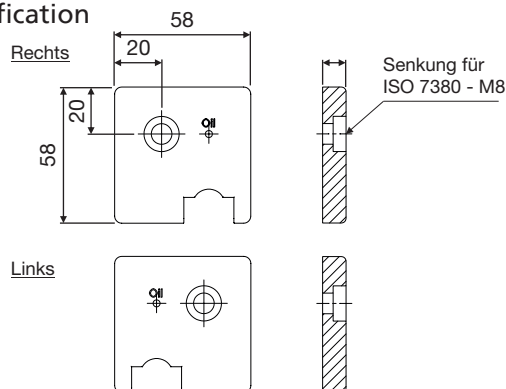
- Stahl, schwarz
- Zur nachträglichen, spielfreien Einstellung der Lagereinheit
- Steel, black
- For additional adjustment of the bearing unit
- Acier, noire
- Pour après ajustement de la unité de roulement

**Abstreif- und Schmiereinheit 8 Ø14**

Oiling unit · Unité de lubrification



05.02407.00



- PA-GF, schwarz
- Schutz und Schmierung der Lagereinheit
- PA-GF, black
- Protection and lubrication of the bearing Unit
- PA-GF, noire
- Protection et lubrification de l'unité de roulement

Technische Änderungen vorbehalten

# SCHLITTENSYSTEM

## SLIDING SYSTEM

### UN SYSTEME DE TRANSLATION



#### Innovative Vorteile:

- Verschieben und bewegen
- Verändern und einstellen
- Justieren und positionieren
- Manuell oder angetrieben
- Robust und hoch belastbar
- Platzsparend und formschön
- Flexibel und preisgünstig

#### Innovative advantages:

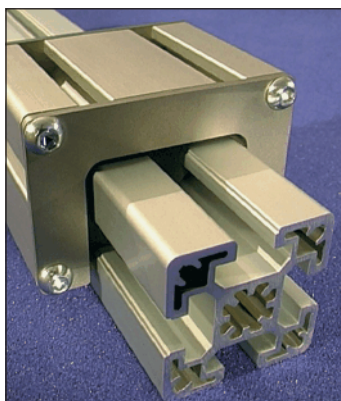
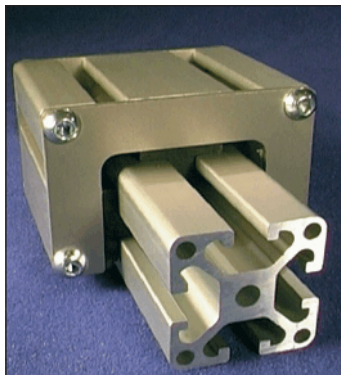
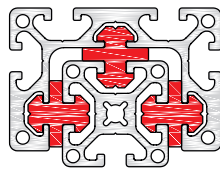
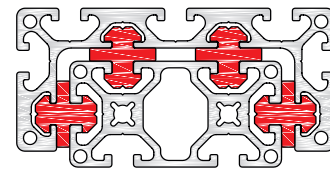
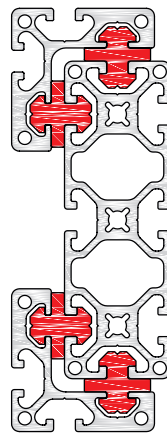
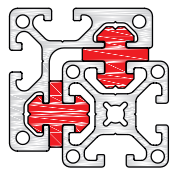
- Pushed and moved
- Changed and adjusted
- Position and aligned
- By hand or motor-driven
- Rugged and extremely hard-wearing
- Space-saving and attractive design
- Economical and flexible

#### Atouts novateur :

- Déplacer et bouger
- Modifier et adapter
- Ajuster et positionner
- Manuellement ou automatique
- Robuste et à haute capacité de charge
- Peu encombrant, élégant
- Flexible et d'un prix avantageux

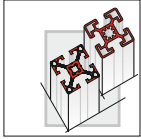
## Anwendungen

Applications · Applications



12

Technische Änderungen vorbehalten

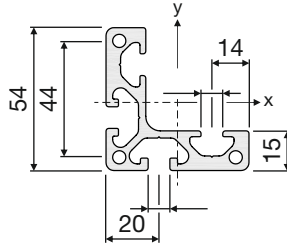
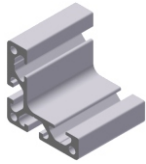


**SCHLITTENPROFILE**  
**SLIDE PROFILES**  
**PROFILE DE TRANSLATION**



**Eckschlitten 40**

Corner slides 40 · Élément de coin L 40



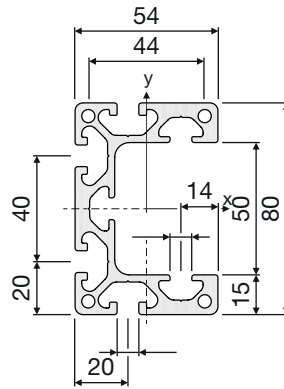
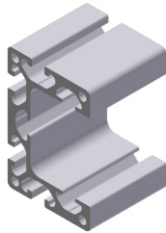
**05.01714.00**

M = 1,91 kg/m  
 $I_x = 24,35 \text{ cm}^4$   
 $W_x = 9,02 \text{ cm}^3$   
 $I_y = 24,35 \text{ cm}^4$   
 $W_y = 9,02 \text{ cm}^3$

PE (m)  
 6 / 24 / 48 / 72

**U-Schlitten 40/80**

U-slides 40/80 · Élément U 40/80



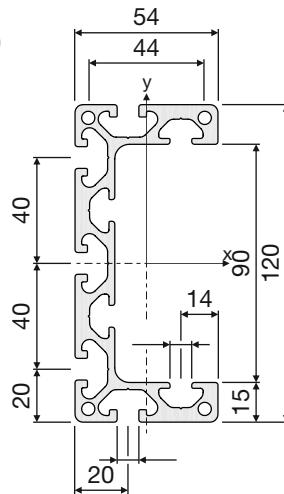
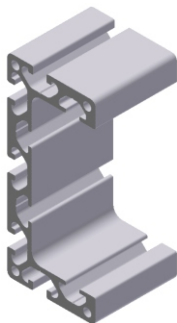
**05.01715.00**

M = 3,14 kg/m  
 $I_x = 97,75 \text{ cm}^4$   
 $W_x = 24,44 \text{ cm}^3$   
 $I_y = 37,58 \text{ cm}^4$   
 $W_y = 13,92 \text{ cm}^3$

PE (m)  
 6 / 18 / 36 / 54

**U-Schlitten 80/120**

U-slides 80/120 · Élément U 80/120



**05.01716.00**

M = 3,91 kg/m  
 $I_x = 272,30 \text{ cm}^4$   
 $W_x = 45,38 \text{ cm}^3$   
 $I_y = 49,81 \text{ cm}^4$   
 $W_y = 18,45 \text{ cm}^3$

PE (m)  
 6 / 18 / 36 / 54

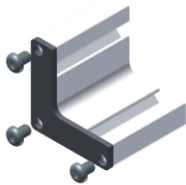
Technische Änderungen vorbehalten

**SCHLITTENSYSTEM ZUBEHÖR**  
**SLIDING SYSTEM ACCESSORIES**  
**UN SYSTEME DE TRANSLATION ACCESSOIRES**



**Abdeckkappen**

Cover caps · Embouts



05.01890.10



05.01891.10



05.01892.10

**Gleitprofile**

Slide profiles · Patins

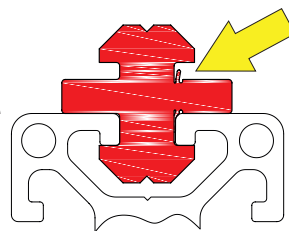


Die an den seitlichen Gleitflächen angebrachten Lippen, gleichen die Toleranzen ( $\pm 0,2$  mm) der Aluprofile aus und ermöglichen somit ein gleichmäßiges Verschieben.

The lips located on the side sliding surfaces compensate the tolerances ( $\pm 0,2$  mm) of the aluminium profiles and allow smooth sliding.

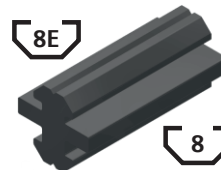
Les lèvres placées sur les surfaces de glissement latérales compensent les tolérances ( $\pm 0,2$  mm) des profilés alu et permettent ainsi un glissement uniforme.

PE-HD  
 schwarz  
 antistatisch



12.08

05.01896.00  
 PE=2000 mm



05.01896.01

L=49 mm

05.01896.02

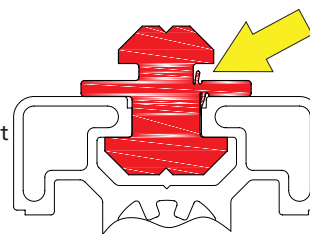
L=99 mm

05.01896.03

L=199 mm

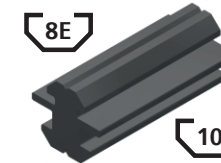
05.01896.04

L=299 mm



12.07

05.01897.00  
 PE=2000 mm



05.01897.01

L=49 mm

05.01897.02

L=99 mm

05.01897.03

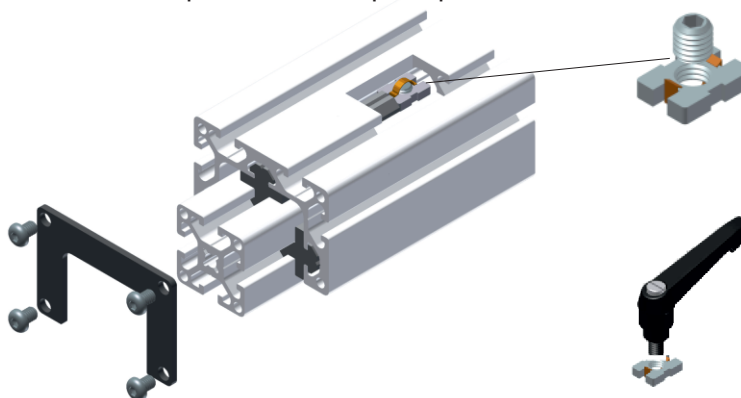
L=199 mm

05.01897.04

L=299 mm

**Fixierung für Gleitprofil**

Fastener for slide profile · Butée pour patins

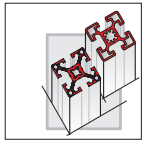


05.01895.00

05.01895.05

12

Technische Änderungen vorbehalten



# GLEITPROFILE 8E

## SLIDE PROFILE 8E

### PATINS 8E



**8E / 8E** beidseitiger Kopf  
 Double-sided head · Tête bilatérale axiale

PE-HD  
 schwarz  
 antistatisch

PE= 2.000 mm  
**05.01880.00**

**8E / 10** beidseitiger Kopf, für Profil 45  
 Double-sided head, for profile 45 ·  
 Tête bilatérale axiale, pour profilé 45

PE-HD  
 schwarz  
 antistatisch

PE= 2.000 mm  
**05.01897.00**

**8E / 8E** einseitiger Kopf, mittiger Steg  
 Single-sided head, central fin ·  
 Tête unilatérale, axiale

PE-HD  
 schwarz  
 antistatisch

PE= 2.000 mm  
**05.01881.00**

**8E** einseitiger Kopf, Plan 5 mm  
 Single-sided head, flush 5 mm ·  
 Tête unilatérale plate 5 mm

PE-HD  
 schwarz  
 antistatisch

PE= 2.000 mm  
**05.01898.00**

**8E / 8E** einseitiger Kopf, exzentrischer Steg  
 Single-sided head, excentric fin ·  
 Tête unilatérale, désaxée

PE-HD  
 schwarz  
 antistatisch

PE= 2.000 mm  
**05.01882.00**

Technische Änderungen vorbehalten

# GLEITPROFILE 8

## SLIDE PROFILE 8

### PATINS 8



**8 / 8** beidseitiger Kopf  
Double-sided head · Tête bilatérale axiale

PE-HD  
schwarz  
antistatisch

PE= 2000 mm  
**05.01341.00**

**8 / 8E** beidseitiger Kopf, für Profil 30  
Double-sided head, for profile 30 ·  
Tête bilatérale axiale, pour profilé 30

PE-HD  
schwarz  
antistatisch

PE= 2000 mm  
**05.01896.00**

**8 / 8** einseitiger Kopf, mittiger Steg  
Single-sided head, central fin ·  
Tête unilatérale, axiale

PE-HD  
schwarz  
antistatisch

PE= 2000 mm  
**05.01884.00**

**8** einseitiger Kopf, plan 10 mm  
Single-sided head, flush 10 mm ·  
Tête unilatérale, plate 10 mm

PE-HD  
schwarz  
antistatisch

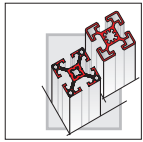
PE= 2000 mm  
**05.01335.00**

**8 / 8** einseitiger Kopf, exzentrischer Steg  
Single-sided head, excentric fin ·  
Tête unilatérale, désaxée

PE-HD  
schwarz  
antistatisch

PE= 2000 mm  
**05.01879.00**

Technische Änderungen vorbehalten



# GLEITPROFILE 10

## SLIDE PROFILE 10

### PATINS 10



**10 / 10** beidseitiger Kopf  
Double-sided head · Tête bilatérale axiale

PE-HD  
schwarz  
antistatisch

PE= 2000 mm  
**05.01336.00**

**10 / 8** beidseitiger Kopf  
Double-sided head · Tête bilatérale axiale

PE-HD  
schwarz  
antistatisch

PE= 2000 mm  
**05.01337.00**

**10 / 10** einseitiger Kopf, mittiger Steg  
Single-sided head, central fin · Tête unilatérale, axiale

PE-HD  
schwarz  
antistatisch

PE= 2000 mm  
**05.01899.00**

**10 / 8** einseitiger Kopf, mittiger Steg  
Single-sided head, central fin · Tête unilatérale, axiale

PE-HD  
schwarz  
antistatisch

PE= 2000 mm  
**05.01338.00**

**10 / 10** einseitiger Kopf, exzentrischer Steg  
Single-sided head, excentric fin · Tête unilatérale, désaxée

PE-HD  
schwarz  
antistatisch

PE= 2000 mm  
**05.01339.00**

**10** einseitiger Kopf, Plan 10mm  
Single-sided head, flush 10 mm · Tête unilatérale, plate 10 mm

PE-HD  
schwarz  
antistatisch

PE= 2000 mm  
**05.01340.00**

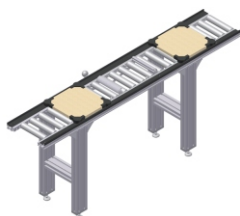
Technische Änderungen vorbehalten



# FÖRDERSTRECKENELEMENTE

## CONVEYOR ELEMENTS

### ELEMENTS DE CONVOYEUR



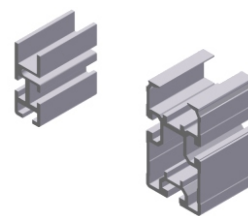
■ 13.02



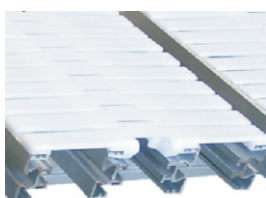
■ 13.04



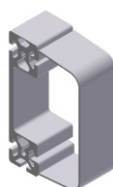
■ 13.08



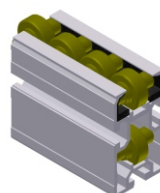
■ 13.10



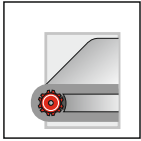
■ 13.12



■ 13.14



■ 13.16



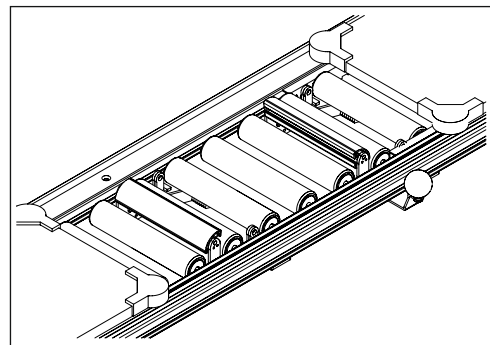
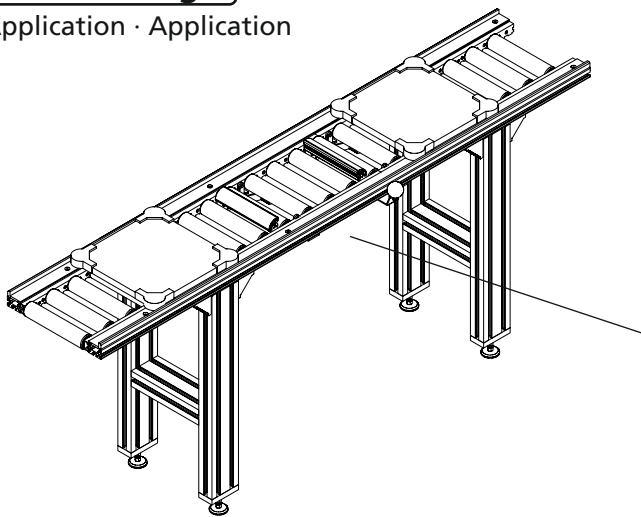
# ECO-ROLL ECO-ROLL ECO-ROLL



- Werkstückträger-Transport und -Verkettungen von Handarbeitsplätzen
- Ab WT = 400mm auch mit angetriebenen Rollen erhältlich
- Anlagenausführungen mit Kurven, Eckstationen und Ausschleusungen auf Anfrage
- Workpiece carrier (WPC) transporter and interlinking of manual workplaces
- Also available with driven rollers as of WPC = 400mm
- System design with bends, corners stations and ejection points on request
- Déplacement manuel de palettes
- A partir de palettes = 400mm, également disponible avec rouleaux entraînés
- Sur demande, versions avec courbes, stations d'angle et sas de sortie

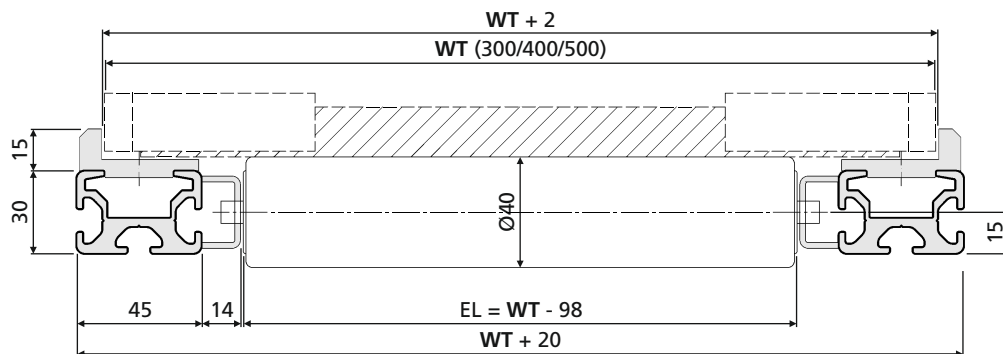
## Anwendung

Application · Application



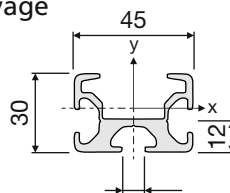
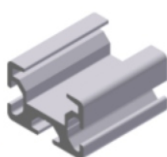
## Querschnitt

Cross section · Section



## Streckenprofil SPR

Section profile SPR · Profilé de convoyage



05.01021.00

M = 1,36 kg/m  
 $I_x = 4,55 \text{ cm}^4$   
 $W_x = 2,02 \text{ cm}^3$   
 $I_y = 10,97 \text{ cm}^4$   
 $W_y = 7,32 \text{ cm}^3$

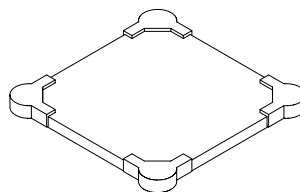
PE (m)  
 6 / 24 / 48 / 72

Technische Änderungen vorbehalten

### Werkstückträger - WT

Workpiece carriers · Palettes

Holzplatte mit Kunststoffecken  
 Wooden pallet with plastic corners  
 Palettes bois avec renfort angulaire  
 plastique



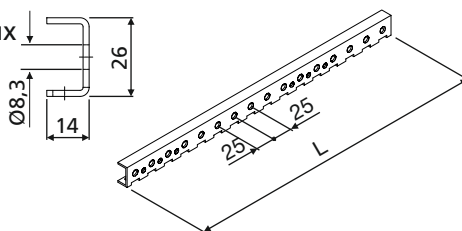
WT	
300 x 300	03.00510.00
300 x 400	03.00511.00
400 x 400	03.00512.00
400 x 500	03.00513.00
500 x 500	03.00514.00

### Rollenhalter

Roller holder · Support rouleaux

$$n = \frac{L}{200}$$

n = Anzahl der Anbausätze  
 Number of attachment kits  
 Quantité de kits

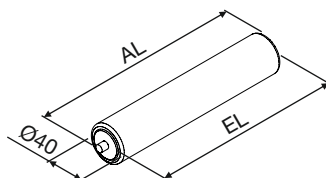


L	
600	03.00517.06
800	03.00517.08
1000	03.00517.00

### Rollen

Rollers · Rouleaux

Einfache Montage und Demontage  
 durch Federachse  
 Spring axle for easy fitting and removal  
 Montage et démontage aisés par axe à  
 ressort



Rollen in der Ausführung Stahl und  
 Kunststoff auf Anfrage erhältlich

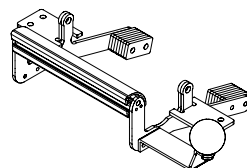
Steel and plastic rollers available on  
 request

Rouleaux disponibles en version acier et  
 matière plastique sur demande

### Stopper

Stopper · Butée

Manuelle Betätigung notwendig  
 Manual activation necessary  
 Actionnement manuel

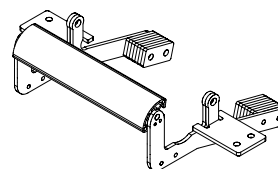


WT	
300	03.00540.30
400	03.00540.40
500	03.00540.50

### Rücklaufsperr

Reverse lock · Blocage anti-retour

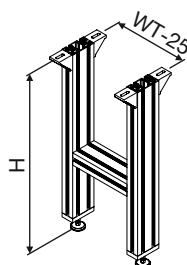
Automatisch durch Gegengewicht  
 Automatic through counterweight  
 Automatique par contre-poids



WT	
300	03.00541.30
400	03.00541.40
500	03.00541.50

### Stützen

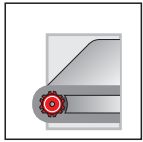
Supports · Piètements



Stützenvariante aus Aluprofil 45x90L,  
 Abmaße nach Kundenwunsch

Support variation made of aluminium  
 profile 45x90L, dimensions to customer  
 specifications

Variante de piètement en profilé alu  
 45x90L dimensions sur mesure



# FM-ROLLENBAHN

## FM ROLLER CONVEYOR

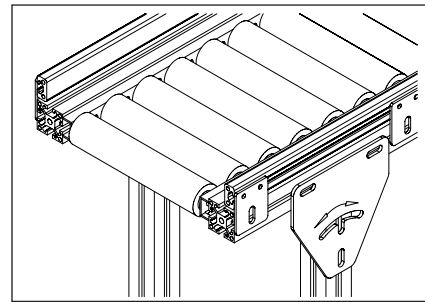
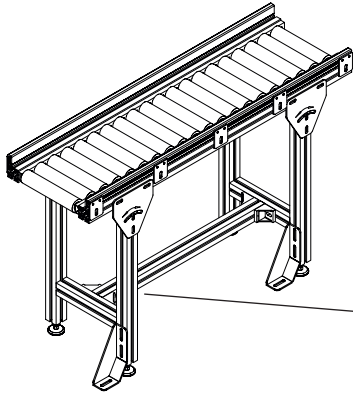
### CONVOYEUR A ROULEAUX FM



#### FM Rollenbahn

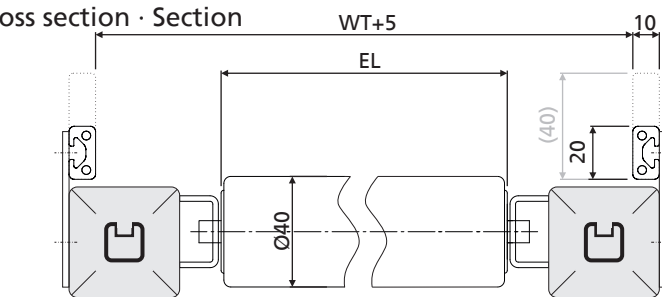
FM Roller Conveyor · Convoyeur a rouleaux FM

- Schwerkraft-Rollenbahn für Teile- und Behältertransport
- Ab B = 400mm auch mit angetriebenen Rollen erhältlich
- Gravity roller conveyor for parts and container transport
- Also available with driven rollers as of B = 400mm
- Convoyeur à rouleaux gravitaire
- A partir d'une largeur = 400mm, également disponible avec rouleaux entraînés



#### Querschnitt

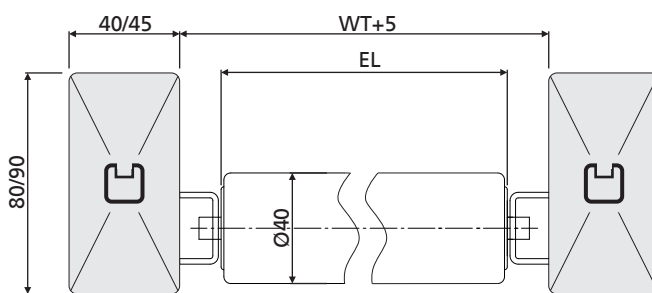
Cross section · Section



40 x 40 N → ■ 2.29



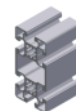
45 x 45 L → ■ 2.55



40 x 80 N → ■ 2.30



45 x 90 L → ■ 2.56



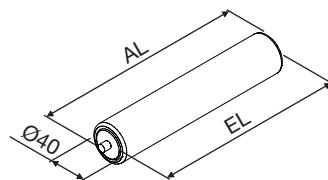
#### Rollen

Rollers · Rouleaux

Einfache Montage und Demontage durch Federachse

Spring axle for easy fitting and removal

Montage et démontage aisés par axe à Ressort



Rollen in der Ausführung Stahl und Kunststoff auf Anfrage erhältlich

Steel and plastic rollers available on request

Rouleaux disponibles en version acier et matière plastique sur demande

Technische Änderungen vorbehalten

# FM-ROLLENBAHN

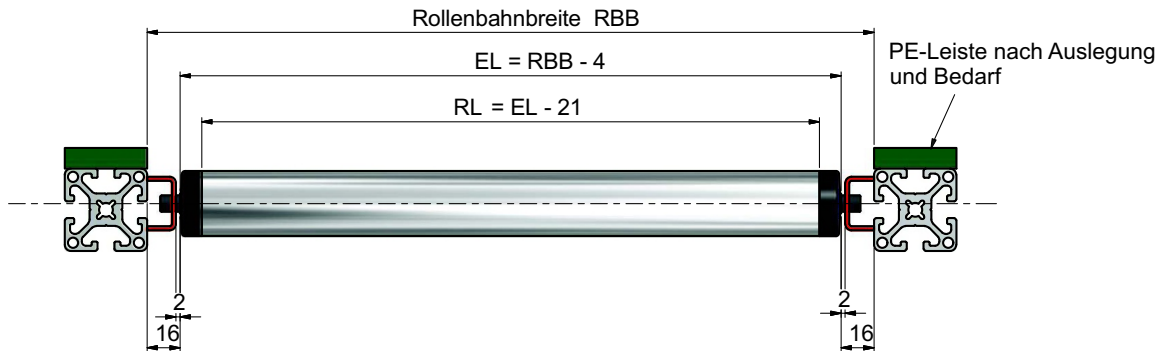
## FM ROLLER CONVEYOR

### CONVOYEUR A ROULEAUX FM



#### FM-Rollenbahn mit FM-Schwerkraftrolle

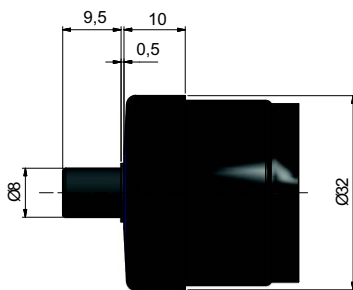
FM roller conveyor · FM convoyeur à rouleaux



#### Rollenlager mit Federachse

Carrier roller · rouleaux porteurs

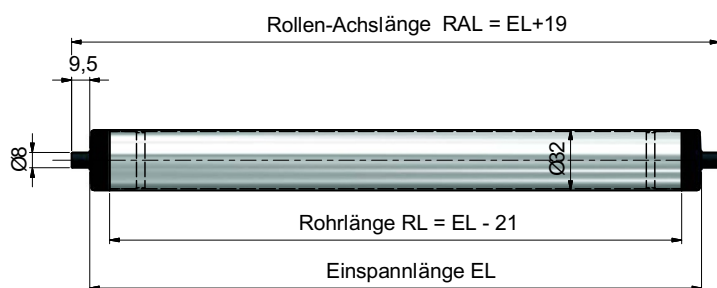
08.00663.00



#### Tragrolle komplett

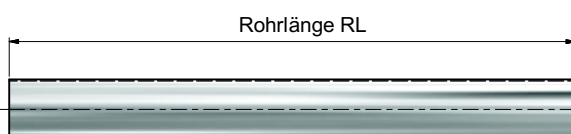
Complete carrier roller · Rouleaux porteurs complètement

08.00664.xx



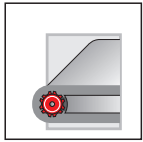
#### NICO-Rohr

NICO pipe · Tube NICO



NICO-Rohr  
Edelstahlrohr Ø 32 mm  
NICO pipe  
Steel pipe Ø 32 mm  
Tube NICO  
Tube acier Ø 32 mm

Technische Änderungen vorbehalten



# FM-ROLLENBAHN

## FM ROLLER CONVEYOR

### CONVOYEUR A ROULEAUX FM

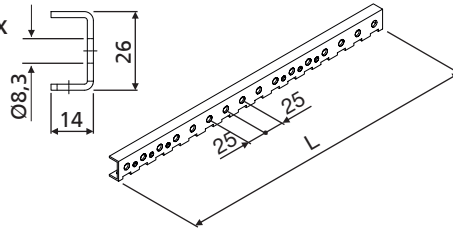


#### Rollenhalter

Roller holder · Support rouleaux

$$n = \frac{L}{200}$$

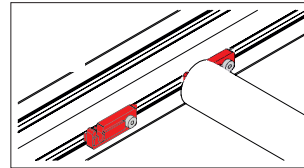
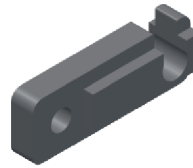
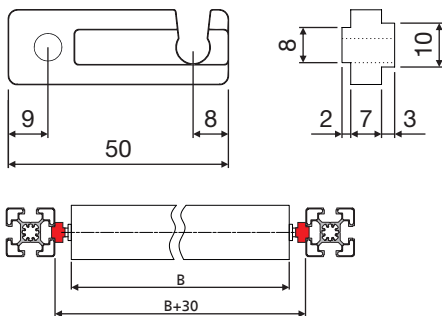
n = Anzahl der Anbausätze  
Number of attachment kits  
Quantité de kits



L	Part Number
600	03.00517.06
800	03.00517.08
1000	03.00517.00

#### Rollenaufnahme

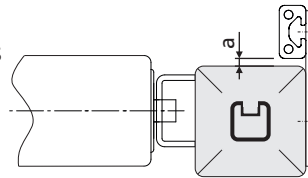
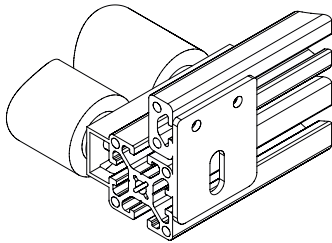
Roller locator · Taquet support rouleau



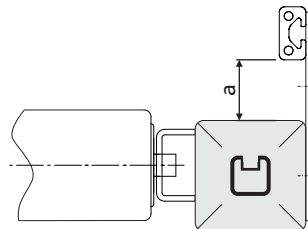
8E	05.01754.30
8	05.01754.40
10	05.01754.50

#### Seitenführung

Lateral guide · Glissières laterales



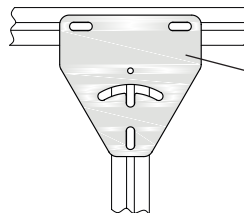
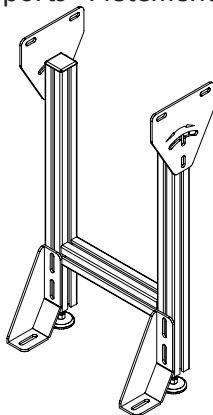
Spaltmaß a max. 10 mm  
Gap size a max. 10 mm  
Ecartement a max. 10 mm



Spaltmaß a von 17 bis 32 mm  
Gap size a from 17 to 32 mm  
Ecartement a de 17 à 32 mm

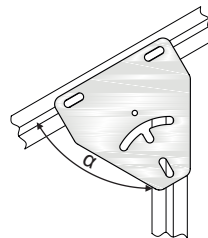
#### Stützen

Supports · Piètements



Halteblech inkl. Befestigungsatz  
Retaining plate with adapter kit  
Interface piètement avec kit de montage

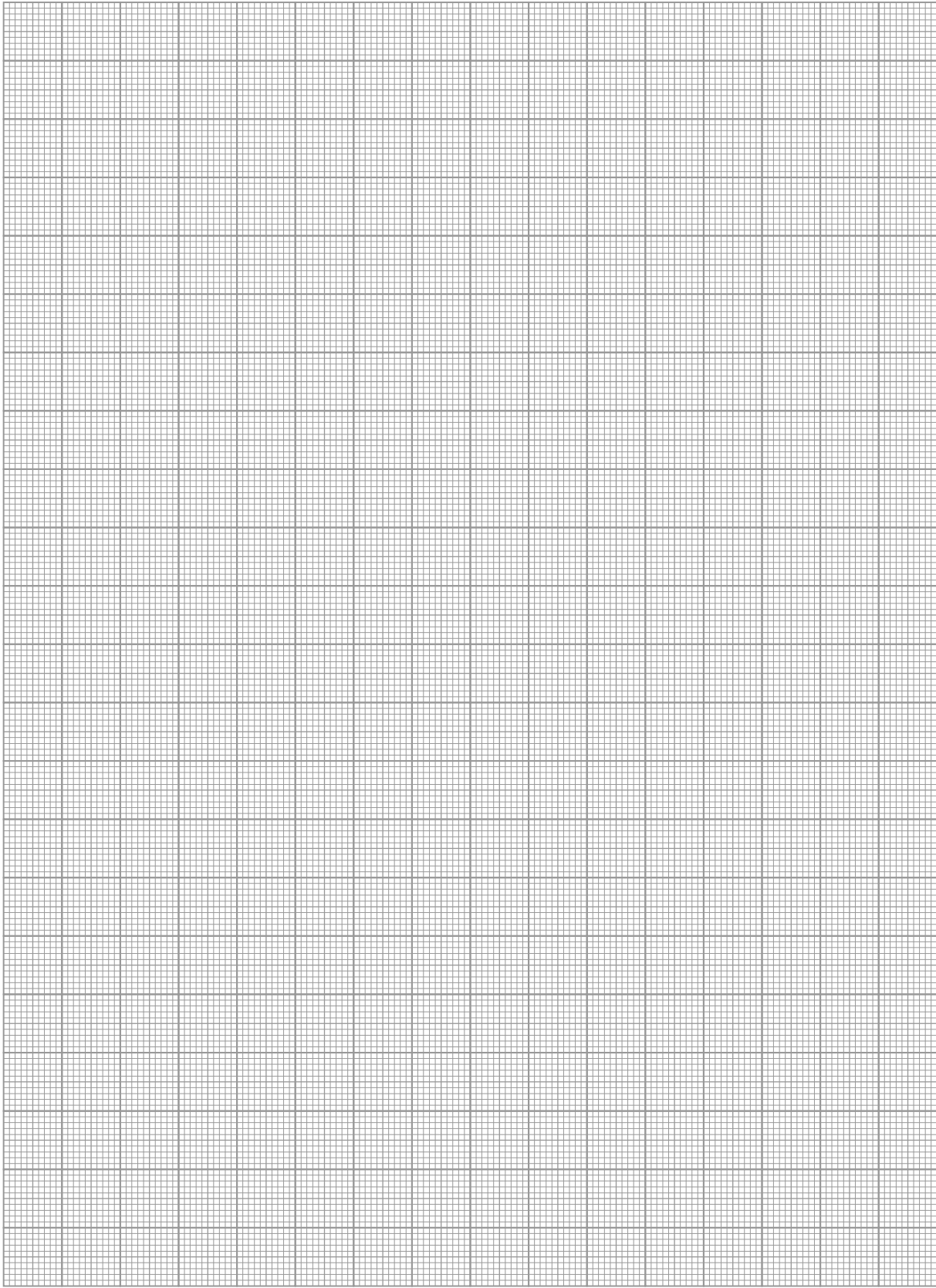
03.00880.05

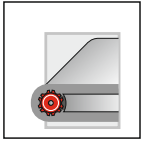


Bandneigung von  $\alpha$  90° bis  $\alpha$  60°.  
Neigungsverstellung von max. 30°

Belt inclination from 90° to 60°,  
Max. inclination adjustment of 30°

Inclinaison de 90° à 60°  
Réglage max. 30°





# ECO-ROLLENSCHIENEN

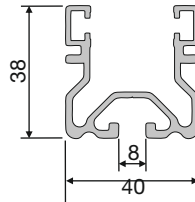
## ECO ROLLER RAILS

### RAILS A GALET ECO



### Profilschienen - Alu-Ausführung

Alu-Profile rails · Alu-Profilé rail

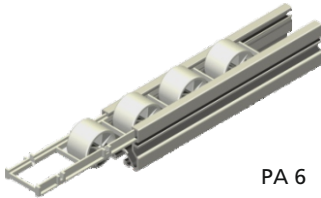


08.00299.00

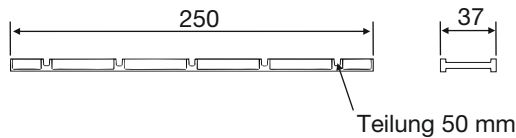
PE (m)  
6

### Achsaufnahme

Axis absorption · Axe accueil



PA 6



08.00313.00

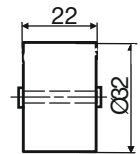
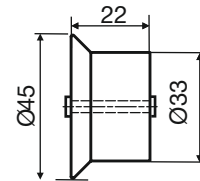
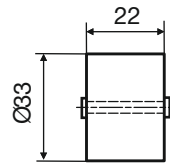
Vorteil: Individuell mit farbigen Rollen bestückbar, sehr leiser Betriebslauf!

### Rollen



Achse  
Axis  
Axe

08.00298.00

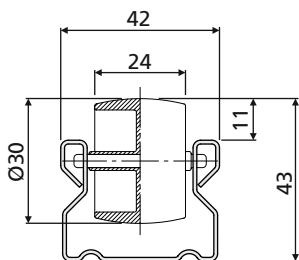


Weiß	White	Blanc	08.00293.00	08.00294.00	-----
ESD	ESD	ESD	08.00293.10	08.00294.10	-----
Rot	Red	Rouge	08.00293.20	08.00294.20	-----
Gelb	Yellow	Jaune	08.00293.30	08.00294.30	-----
Grün	Green	Verte	08.00293.40	08.00294.40	-----
Nico	Nico	Nico	-----	-----	08.00292.00

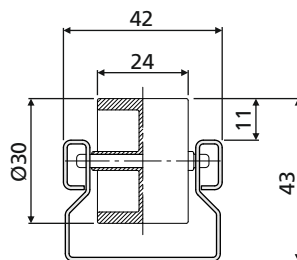
### Profilschienen - Stahlausführung\*

Profile rails · Profilé rail

Stahl, verzinkt  
Steel, galvanized  
Acier, zingué

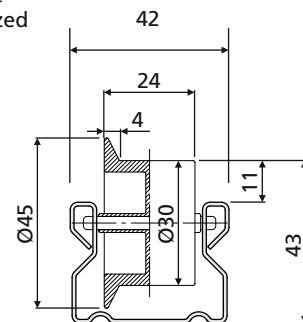


Typ 40 - A **08.00090.00**



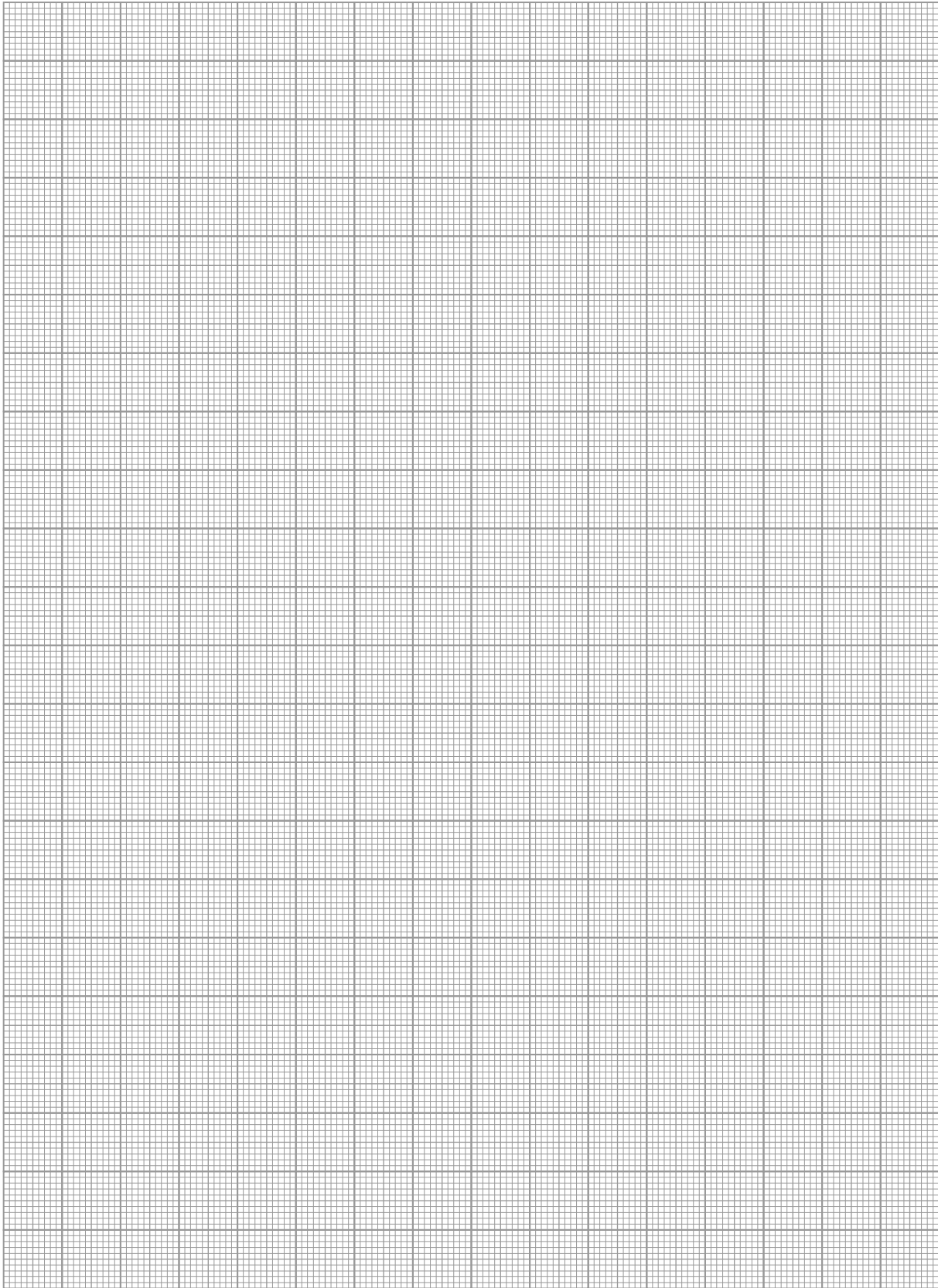
Typ 40 - B **08.00091.00**

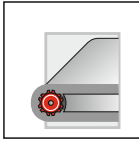
Typ 40 - B / ESD **08.00093.00**



Typ 40 - B mit Bord **08.00092.00**







# ZUBEHÖR ROLLENBAHNEN

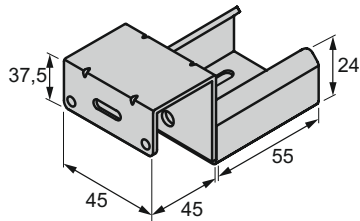
## ROLLER CONVEYOR ACCESSORIES

### ACCESSOIRES CONVOYEUR A ROULEAUX



#### RSV-45-1A

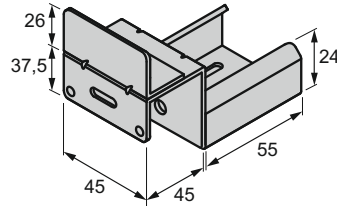
Roller conveyor 45 ·  
Convoyeur à galets 45



08.00111.00

#### RSV-45-3A

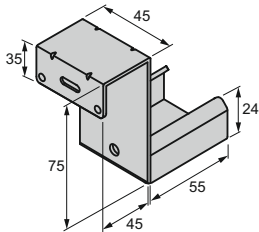
Roller conveyor 45 ·  
Convoyeur à galets 45



08.00113.00

#### RSV-45-4A

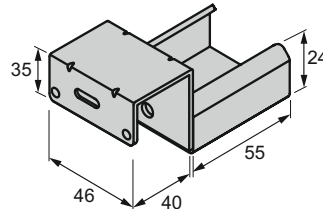
Roller conveyor 45 ·  
Convoyeur à galets 45



08.00115.00

#### RSV-40-1A

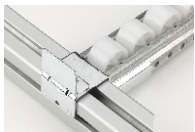
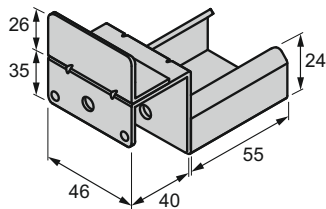
Roller conveyor 40 ·  
Convoyeur à galets 40



08.00127.00

#### RSV-40-3A

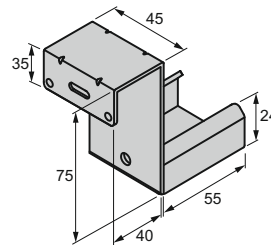
Roller conveyor 40 ·  
Convoyeur à galets 40



08.00107.00

#### RSV-40-4A

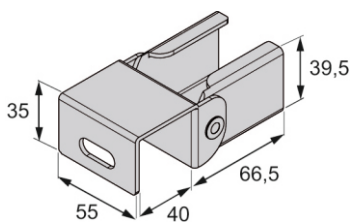
Roller conveyor 40 ·  
Convoyeur à galets 40



08.00125.00

#### RSV-40-5A

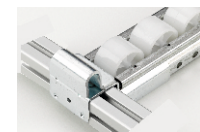
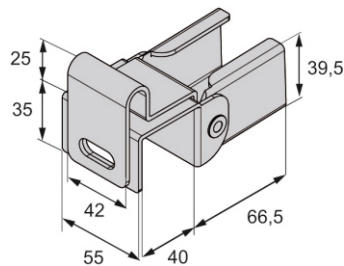
Roller conveyor 40 ·  
Convoyeur à galets 40



08.00710.00

#### RSV-40-6A

Roller conveyor 40 ·  
Convoyeur à galets 40



08.00711.00

Technische Änderungen vorbehalten

# ZUBEHÖR ROLLENBAHNEN

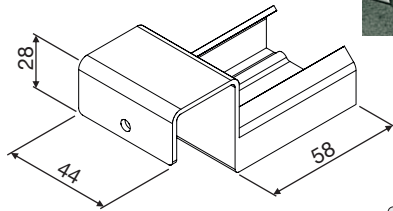
## ROLLER CONVEYOR ACCESSORIES

### ACCESSOIRES CONVOYEUR A ROULEAUX



#### Schieneaufnahme

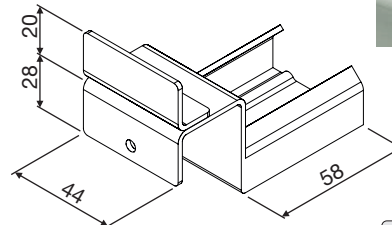
Roller conveyor ·  
Convoyeur à galets



08.00100.00

#### mit Stopper

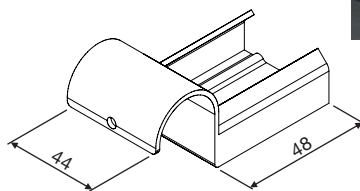
With stopper ·  
Avec butée



08.00102.00

#### Schieneaufnahme HR

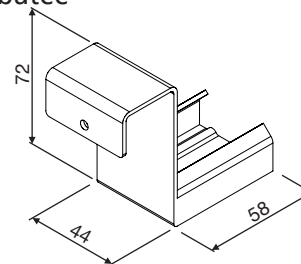
Roller conveyor ·  
Convoyeur à galets



08.00108.00

#### mit Stopper

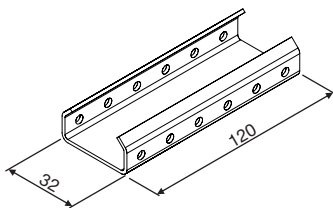
With stopper ·  
Avec butée



08.00114.00

#### Schieneverbinder

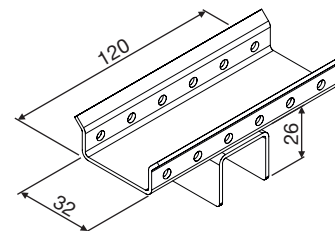
Rail connector ·  
Union de rail



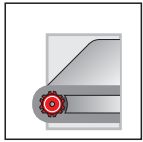
08.00104.00

#### mit Aufsatz

With support ·  
Union de rail support



08.00106.00



# BANDFÖRDERER CONVEYOR BELTS CONVOYEUR A BANDE



## Merkmale:

- Transport von Teilen, Behältern und Werkstückträgern
- Gewichte von 0 bis 100 kg
- Förderbreite von 30 bis 2500 mm
- Förderbandqualität
  - Kunststoffkette
  - Keilriemengurte
  - Zahnriemen
  - Drahtgliedergurte
- Seitenführungs-Systeme mit:
  - Alu-Profil
  - Kunststoff-Leisten und Rundstange
  - VA-Rundstangen
  - Standardhalter aus Kunststoff und VA
- Bandkörper
  - Alu-Profile und Stahlblechauflagen
  - VA-Blechkantkonstruktion
- Bandgeschwindigkeit von 0 bis 30 m/min

Preise auf Anfrage

## Characteristics:

- Transportation of parts, containers and pallets
- Weights from 0 to 100 kg
- Conveying widths from 30 to 2500 mm
- Conveyor belt types
  - V-belts
  - Plastic chain (toothed belts)
  - Wire link belts
- Side guidance systems with:
  - Aluminium profiles
  - Plastic rails and round rod
  - Stainless steel rods
  - Standard container made of plastic and stainless steel body
- Belt frame
  - Aluminium profiles and sheet steel supports
  - Stainless sheet steel construction
- Belt speeds from 0 to 30m per min

Prices on request

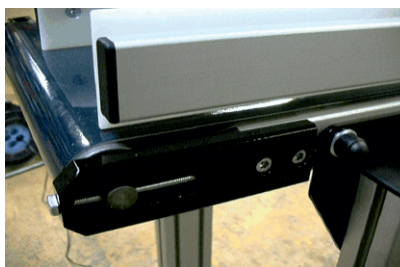
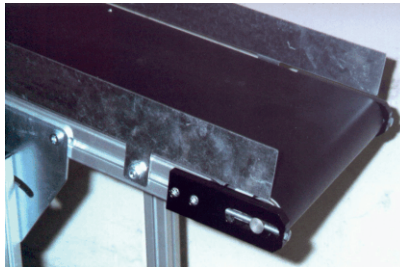
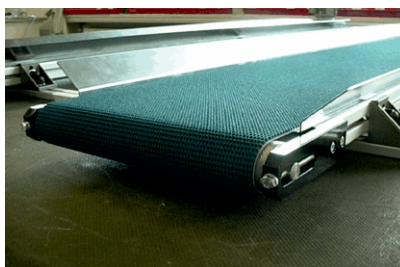
## Caractéristique :

- Transport de pièces et palettes
- Poids de 0 à 100 kg
- Largeur de convoyage de 30 à 2500 mm
- Qualité de courroie
  - Chaîne plastique
  - Courroies trapézoïdales
  - Chaîne plastique (courroie dentée)
  - Courroies fil métallique
- Systèmes de rives avec:
  - Profilé alu
  - Rives plastique et baguette ronde
  - Baguettes rondes inox
  - Support standard en plastique et inox
- Corps de bande
  - Profilé alu et tôles
  - Construction en tôle inox pliée
- Vitesse de bande de 0 à 30 m/min

Offre sur mesure

## Anwendungen

Applications · Applications



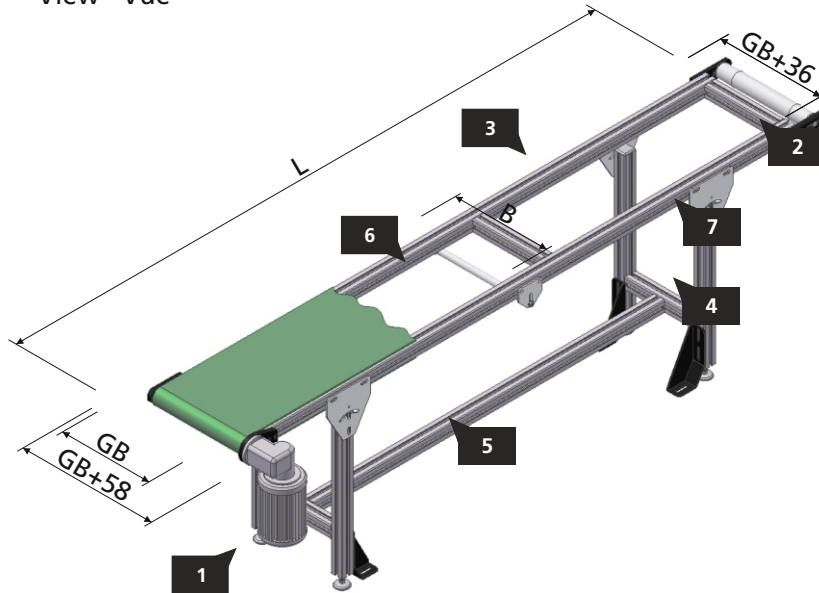
Technische Änderungen vorbehalten

# BANDFÖRDERER CONVEYOR BELTS CONVOYEUR A BANDE



## Darstellung

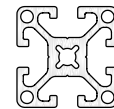
View · Vue



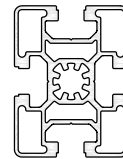
### BF 30



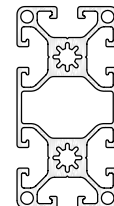
### BF 40



### BF 60L



### BF 80L



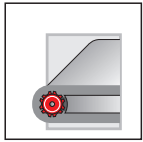
<b>1</b>	Antrieb	Drive	Entraînement
<b>2</b>	Umlenkung	Return	Renvoi
<b>3</b>	Bandstrecke	Belt section	Longeron
<b>4</b>	Bandstütze	Belt support	Piètement
<b>5</b>	Verbindungsstrebe	Connecting strut	Entretoise piètement
<b>6</b>	Stützrolle	Support roller	Rouleau support de bande
<b>7</b>	Halteblech	Retaining plate	Interface piètement

## Technische Daten

Technical details · Caractéristiques techniques

	Bandlänge L Belt length L Longueur du convoyeur L	Gurtbreite (mm) Belt width (mm) Largeur de courroie (mm)	Bandbelastung (gesamt) Belt load (total) Charge (totale)	Bandgeschwindigkeit Belt speed Vitesse
<b>BF 30</b>	500-4.000 mm	100 / 150 / 200 / 250 / 300 / 400 / 500	< GB=250: max. 5kg/m (Max. 15 kg) > GB=250: max. 10kg/m (Max. 30 kg)	5,4m/min , 7,3m/min 13,1m/min , 11,5m/min 15,4m/min
<b>BF 40</b>	500-4.000 mm	100 / 150 / 200 / 250 / 300 / 400 / 500	< GB=250: max. 5kg/m (Max. 20 kg) > GB=250: max. 10kg/m (Max. 40 kg)	6,5m/min , 9,8m/min 13,1m/min
<b>BF 60L</b>	1.000-6.000 mm	100 / 150 / 200 / 250 / 300 / 400 / 500	< GB=400: max. 15kg/m (Max. 90 kg) > GB=400: max. 20kg/m (Max. 120 kg)	7,5m/min , 9,4m/min 13,2m/min , 18,8m/min
<b>BF 80L</b>	1.000-12.000 mm	100 / 150 / 200 / 250 / 300 / 400 / 500	< GB=500: max. 5kg/m (Max. 15 kg) > GB=500: max. 40kg/m (Max. 400 kg)	8,3m/min , 9,8m/min 12,4m/min , 15,5m/min 19,6 m/min

Technische Änderungen vorbehalten



# 3D-KETTENFÖRDERER

## 3D CHAIN CONVEYOR

### CONVOYEUR A CHAINE 3D



#### Merkmale:

Geeignet für den universellen und flexiblen Transport von vielen Produkten im:

#### **Direkttransport**

z.B. Lagerringe, Verzahnungsteile, Schachteln, Flaschen, Kartons, usw.

#### **Werkstückträger Systeme**

Für leichte Teile bei universellen Förderverlauf wie Kurven, Steigungen, Gefällstrecken, usw.

#### **Baukastensystem**

Mit allen erforderlichen Elementen wie Antriebsstationen, Umlenkstationen, Kurven, Bogenrädern, Vereinzeler, Stopper, Fixierstation, usw.

#### Characteristics:

Suitable for universal and flexible transport of large numbers of products:

#### **Direct transport**

E.g. bearing rings, gearing parts, boxes, bottles, cartons etc.

#### **Workpiece carrier conveying systems**

For light parts with universal transport tracks such as bends, inclines, slopes etc.

#### **Modular system**

With all necessary elements such as drive stations, turning stations, bends, separators, stoppers, fixing stations etc.

#### Caractéristique :

Pour le transport universel et flexible de nombreux produits:

#### **Transport direct**

Par ex. anneaux, éléments d'engrenage, boîtes, bouteilles, cartons

#### **Systèmes de palettes**

Pour pièces légères sur tracés universels en courbes, montées, déclivités, etc.

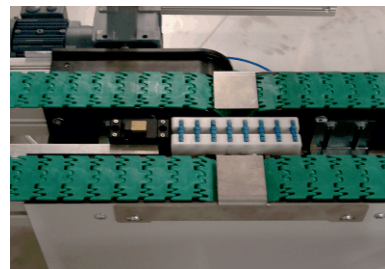
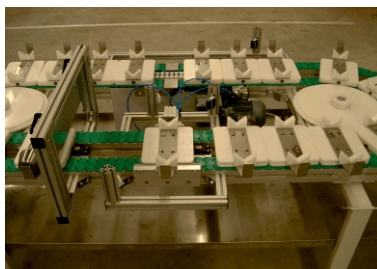
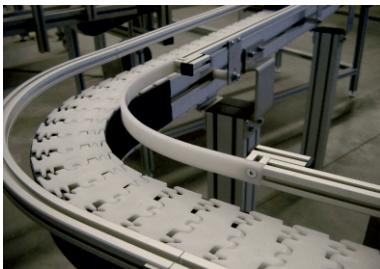
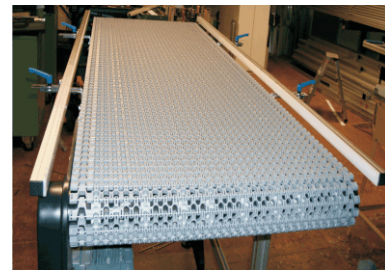
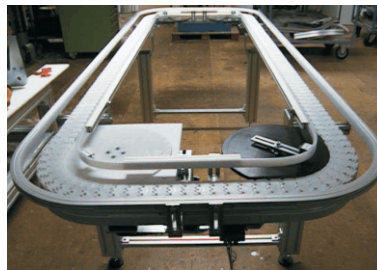
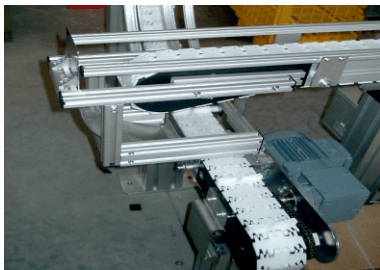
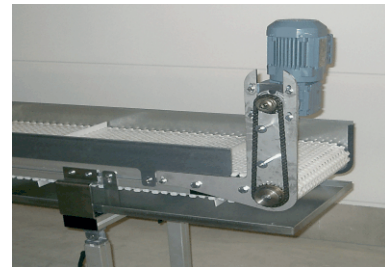
#### **Système modulaire**

Avec tous les éléments nécessaires tels que stations d'entraînement, de renvoi, courbes, butées, stations de fixation, etc.

Teilgewichte Parts weight Poids des pièces	Bandgeschwindigkeit Belt speed Vitesse du convoyeur	Umgebungstemperatur Ambient temperature Température ambiante
1-15 (20) kg	6-12 (15) m/min	5-60° C

## Anwendungen

Applications · Applications



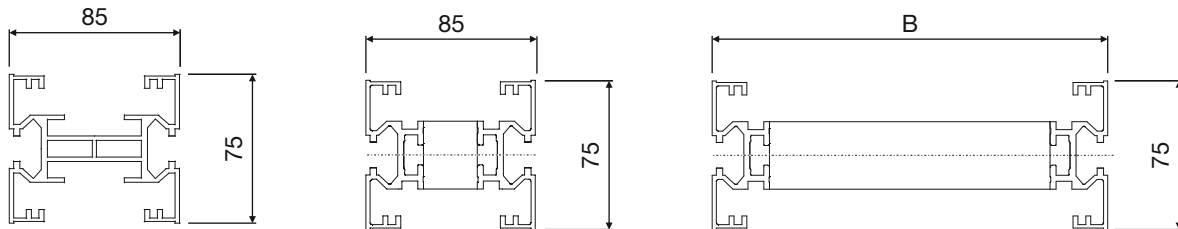
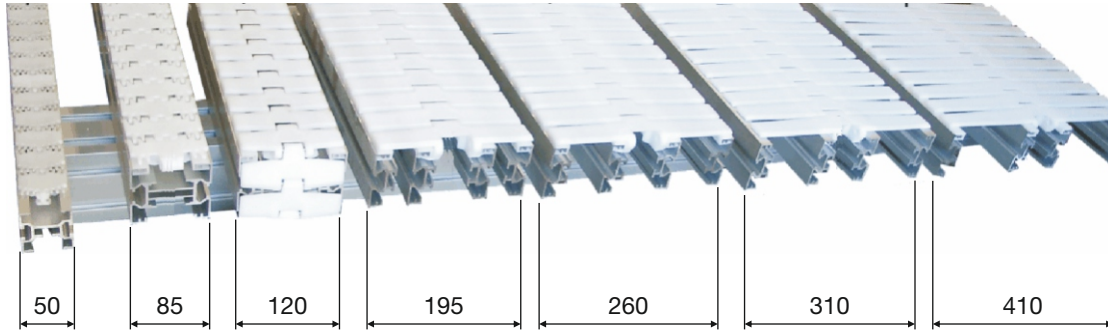
Technische Änderungen vorbehalten

# 3D-KETTENFÖRDERER 3D CHAIN CONVEYOR CONVOYEUR A CHAÎNE 3D



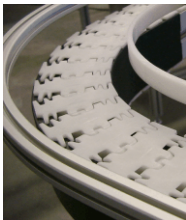
## Führungsprofil

Guide profile · Profilé de guidage

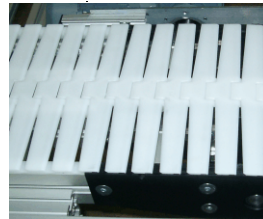


## Typ

Type · Type



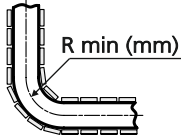
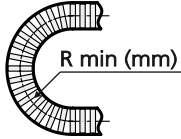
Typ FK-3 Kunststoffkette  
Type FK-3 plastic chain  
Type FK- chaîne plastique



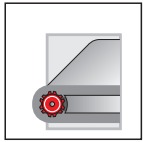
Typ FG-3 Kunststoffglieder  
Type FG-3 plastic links  
Type FG-3 maillons plastique

## Auslegungsdaten

Design data · Caractéristiques

Typ	Kettenbreite Chain width Largeur de chaîne	Führungsprofil (BxH) Guide profile (BxH) Profilé de guidage (BxH)	R min (mm)	
				
FK-3	48	50 x 50	150	300
FK-3	64	70 x 75	200	400
FK-3	82	85 x 75	200	400
FK-3	89	90 x 75	500	500
FK-3	114	120 x 75	200	400
FG-3	82	85 x 75	150	400
FG-3	112	120 x 75	200	400
FG-3	209	215 x 75	350	400
FG-3	311	320 x 75	600	500
FG-3	373	380 x 75	700	500
FG-3	453	460 x 75	850	500
FG-3	577	585 x 75	1.100	600
FG-3	618	625 x 75	1.200	600

Technische Änderungen vorbehalten



## DOPPELGURTBAND DG-0/DG-2

### TWIN BELT DG-0 / DG-2

### TRANSFERT A BANDES JUMEELES DG-0 / DG-2



#### Merkmale:

- Werkstückträgersystem als Automatisierungsförderer
- Komplettsystem mit Vereinzeler, Stopper, Hub-Quertransport, Hubstation, Indexierstation, Drehstationen, usw.
- Sonderausführungen nach Aufgabenstellung

#### Characteristics:

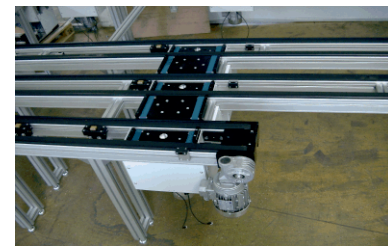
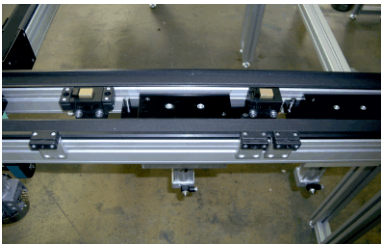
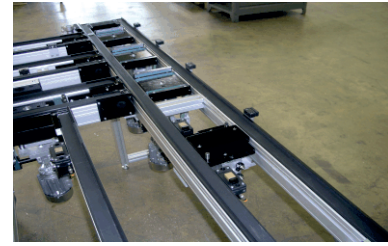
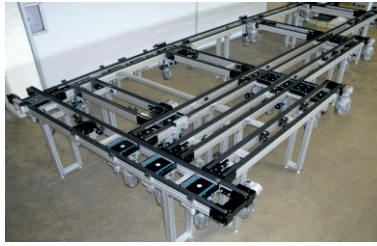
- Workpiece carrier transport system as automatic conveyer
- Complete system with separator, stopper, lift/cross transport, lift station, indexing station, turning station etc.
- Special designs according to requirements

#### Caractéristique :

- Système de palettes convoyeur d'automation
- Système complet avec butées, levage et déplacement transversal, stations de levage, d'indexation, giratoires, etc.
- Versions spéciales selon les exigences

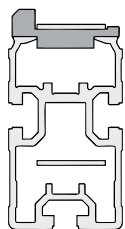
## Anwendungen

Applications · Applications

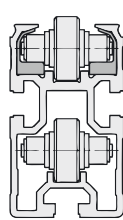


## DG-2: 1 Profil - 4 Systeme

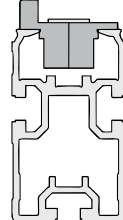
DG-2: 1 profile - 4 systems · DG-2: 1 profilé - 4 systèmes



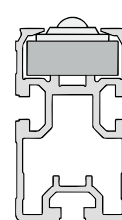
➔ ■ 13.12



➔ ■ 13.13



➔ ■ 13.18



Technische Änderungen vorbehalten



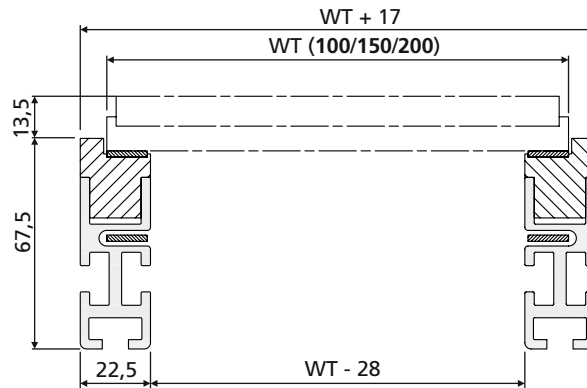
# DOPPELGURT BAND DG-0 / DG-2

## TWIN BELT DG-0 / DG-2

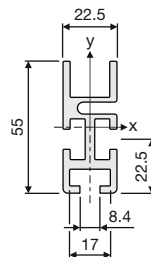
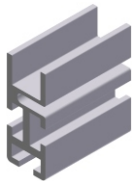
## TRANSFERT A BANDES JUMELEES DG-0 / DG-2



### DG-0



### Förderprofil DG-0



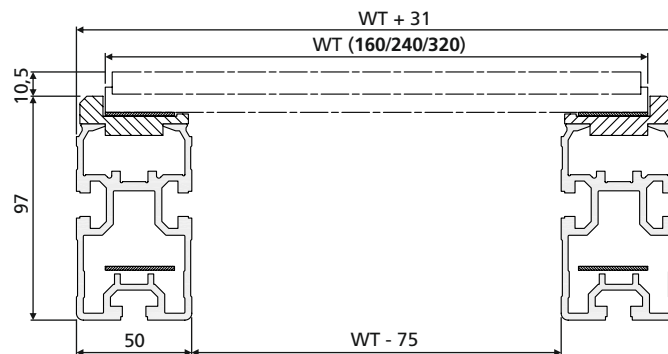
**02.00068.00**

M = 1,35 kg/m

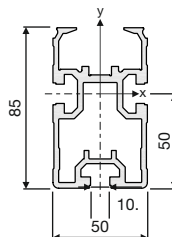
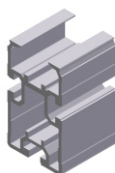
PE (m)

6 / 48 / 96 / 144

### DG-2



### Förderprofil DG-2



**05.01020.00**

M = 3,09 kg/m

PE (m)

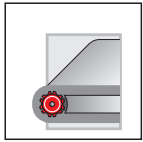
6 / 24 / 48 / 72

### Technische Daten

Technical details · Caractéristiques techniques

Typ	Werkstückträger Workpiece carriers Porte-pièce	Bandgeschwindigkeit Belt speed Vitesse	Nutzlasten Rated load Charges utiles
DG-0	100x100 / 150x150 / 200x200	9, 12, 15 m/min	1-3 kg
DG-2	160x160 / 240x240 / 320x320		3-20 kg

Technische Änderungen vorbehalten



# FRIKTIONSROLLENBAHN

## FRICITION ROLLER CONVEYORS

### CONVOYEUR A ROULEAUX A FRICTION



#### Merkmale:

- Staurollenbahn mit außenliegenden, abgedeckten Friktionselementen (geeignet für Nassbereich)
- Werkstückdirekt-Transport mit Vulkolan-Rollenbeschichtung:  
Bsp.: - Zylinderkopf  
- Motorenblock  
- Bremsscheiben  
- Kupplungsscheiben, usw.
- Behälter-Transporte im Bereich Waschmaschinen
- Werkstückträger-Transporte G bis 250 kg
- Geschwindigkeiten V bis 6 m/min
- Vereinzeler, Stopper, Indexierstation, Weichen, Drehstationen, Flipper, Hubstationen, Speicherfunktion
- Angepasste Förderrollenausführung  
- Vulkanbeschichtet  
- Gekantete Rollen  
- VA-Rollen
- Verschiedene Seitenführungssysteme
- Stützenkonstruktion mit:  
- Alu-Profilen  
- Stahlstützen  
- Tropfwannen
- Hub-Quer-Einheit
- Drehtische

#### Characteristics:

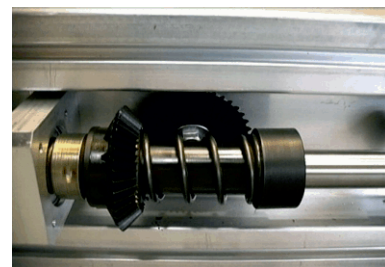
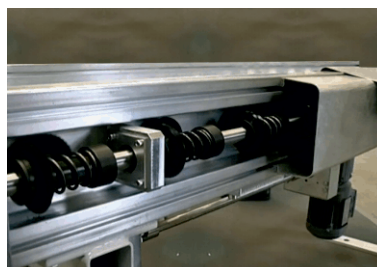
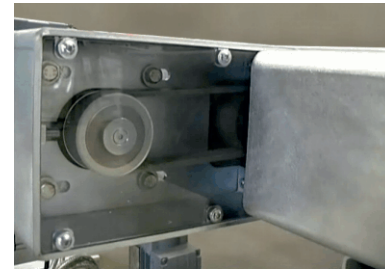
- Accumulator roller conveyor with outer covered friction elements (suitable for wet areas)
- Workpiece direct transport with vulcanised roller coating:  
E.g.: - cylinder head  
- engine block  
- brake plates  
- clutch plates etc.
- Container transport in area of washing machines
- Workpiece transport G up to 250 kg
- Speeds V up to 6 m per min
- Separator, stopper, indexing station, points, turning stations, flippers, lifting stations, memory function
- Customised conveyor roller design  
- Vulcanised coating  
- Bevelled rollers  
- Stainless steel rollers
- Various side guidance systems
- Support construction with:  
- Aluminium profiles  
- Steel supports  
- Drip trays
- Lift transverse unit
- Turntable

#### Caractéristique :

- Convoyeur d'accumulation à rouleaux, éléments de friction recouverts (convient en atmosphère humide)
- Transport direct de pièces à usiner, avec enduction vulcanisée des rouleaux  
Ex. : - tête cylindrique  
- bloc moteur  
- disques frein  
- disques d'embrayage, etc.
- Transport de récipients dans le secteur des machines à laver
- Transport direct de platines transfert G max. 250 kg
- Vitesses V max. 6 m/min
- Butées, stoppeurs, stations d'indexation, aiguillages, stations giratoires, centrage, levage, accumulation
- Version adaptée des rouleaux  
- Enduction vulcanisée  
- Rouleaux chanfreinés  
- Rouleaux inox
- Divers systèmes de rives
- Piètements avec:  
- Profils alu  
- Pieds acier  
- Égouttoirs
- Unité de levage transversale
- Tables tournantes

## Anwendungen

Applications · Applications



Technische Änderungen vorbehalten

# FRIKTIONSROLLENBAHN

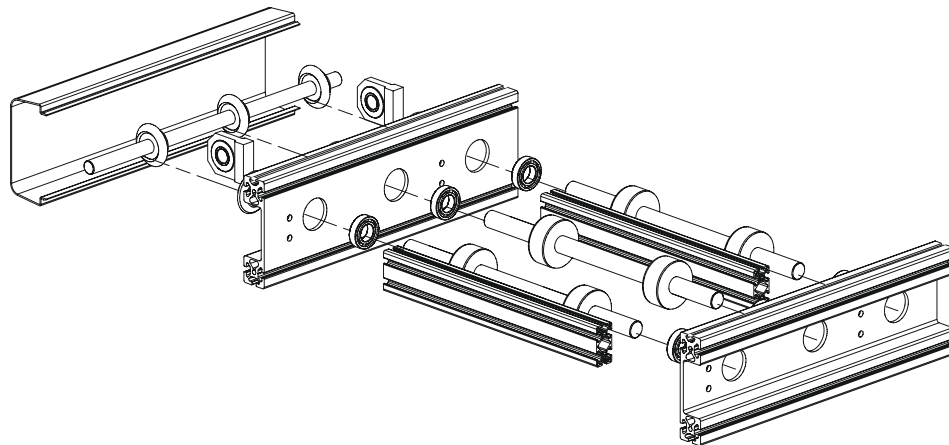
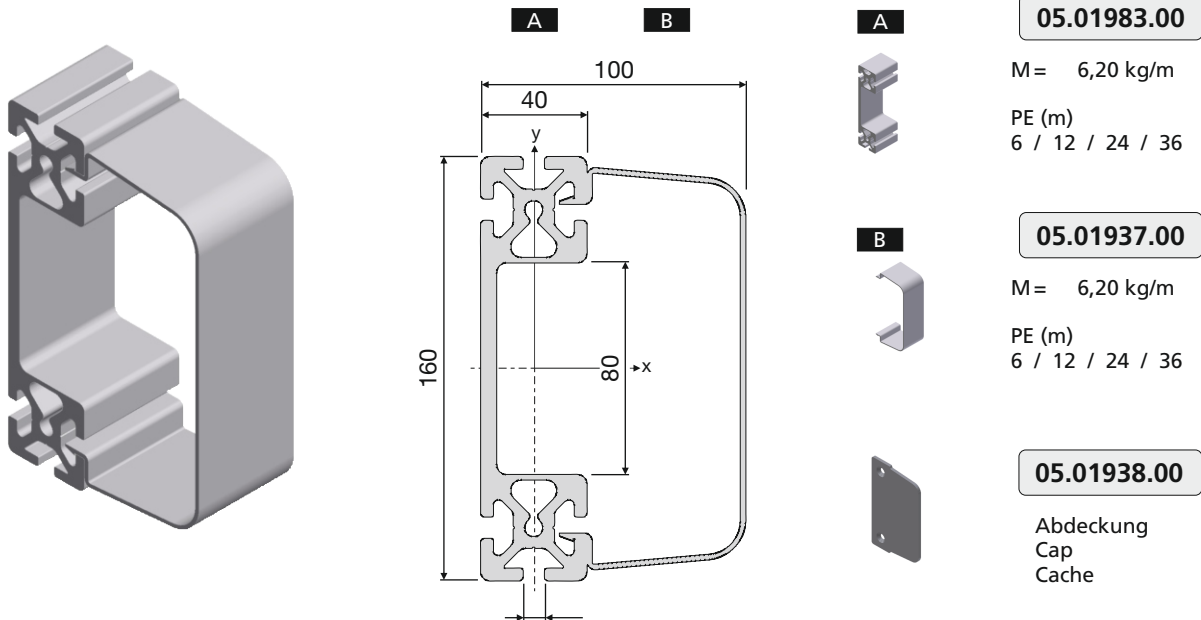
## FRICITION ROLLER CONVEYORS

### CONVOYEUR A ROULEAUX A FRICTION



#### Rollenbahnprofil

Roller conveyor profile · Profilé pour convoyeur à rouleaux

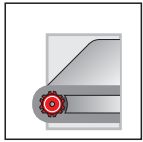


#### Technische Daten

Technical details · Caractéristiques techniques

Bahnbreite L Belt width Largeur de bande	Ø Rollen Ø Roller Ø Rouleau	Rollenteilung Roller pitch Entraxe rouleaux	Max. Bel. / Rolle Max. load per roller Charge max. / rouleau	Max. Stückgewicht Max. piece weight Poids unitaire max.
200-1200 mm	nach Bedarf	110 mm / 140 mm Sonder /Special/Spéciale	100 kg	300 kg

Technische Änderungen vorbehalten



## STAUKETTENTRANSFER SK-4

## ACCUMULATOR CHAIN TRANSFER SK-4

## TRANSFERT A CHAINE D'ACCUMULATION SK-4



### Merkmale:

- Werkstückträgersystem als Automatisierungsförderer
- Komplettsystem mit Vereinzeler, Stopper, Hub-Quertransport, Hubstation, Indexierstation, Drehstationen, usw.
- Sonderausführungen nach Aufgabenstellung
- Geeignet für Automatikumläufe
- Teilautomatische Umläufe
- Manuelle Schiebestrecken
- Für Wt's / Paletten / Behälter

### Characteristics:

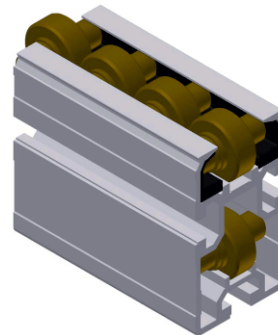
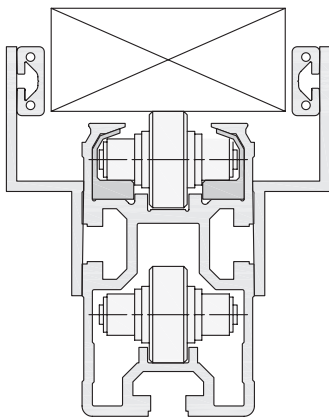
- Workpiece carrier transport system as automatic conveyer
- Complete system with separator, stopper, lift/cross transport, lift station, indexing station, turning station etc.
- Special designs according to requirements
- Suitable for automatic circuits
- Semiautomatic circuits
- Manual pusher tracks
- For WPC / pallets / containers

### Caractéristique :

- Système de platines transfert comme convoyeur d'automation
- Système complet avec butées, stoppeurs, levage et déplacement transversal, station de levage, station d'indexation, giratoires, etc.
- Versions spéciales selon les exigences
- Adapté pour circuits automatisés
- Circuits semi-automatisés
- Tracés à poussée manuelle
- Pour platines transfert / palettes / récipients

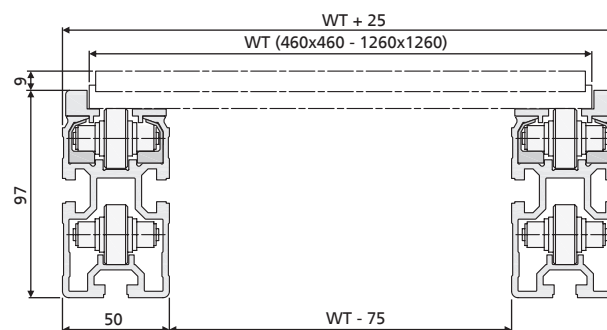
## Anwendungen

Applications · Applications



## Systemquerschnitt SK-4

System cross section SK-4 · Section du système SK-4



## Technische Daten

Technical details · Caractéristiques techniques

Typ	Werkstückträger Workpiece carrier Porte-pièce	Bandgeschwindigkeit Belt speed Vitesse	Nutzlasten Rated loads Charges utiles
<b>SK-4</b>	460 x 460 - 1.260 x 1.260 mm	6 - 12 m/min	25 - 160 kg

# ROLLENEINSATZ ROLLER INSERT ELEMENT A GALETS



## Innovative Vorteile:

- Wirtschaftliche Lösung für manuelle Schiebetransporte
- Schnelle und leichte Montage durch Einschnappkante
- zulässige Last 15N pro Element

- Einsatz:  
Streckenprofil SPR → ■ 13.01  
und  
Transferprofil DG-2 → ■ 13.13

## Innovative advantages:

- Economic solution for manual slide transport
- Fast and easy assembly with snap edges
- Permitted load 15N per element

- Insert:  
Line profile SPR → ■ 13.01  
and  
Transfer profile DG-2 → ■ 13.13

## Atouts novateurs:

- Solution pour convoyage gravitaire
- Montage rapide et aisé par encliquetage
- Charge admissible 15N par élément

- Application:  
Profilé galet SPR → ■ 13.01  
et  
Profilé transfert DG-2 → ■ 13.13

## Ausführung

- PA, antistatisch, schwarz

## Design

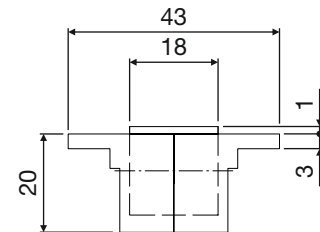
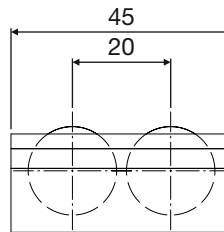
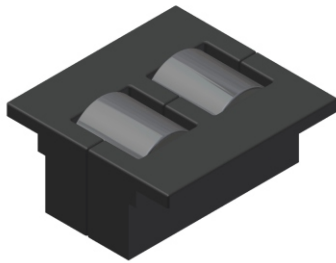
- PA, antistatic, black

## Version

- PA, antistatique, noir

## ohne Bord

Without board · Sans épaulement

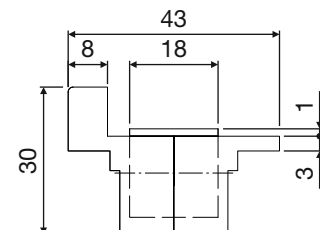
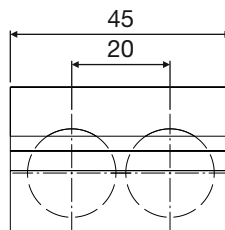
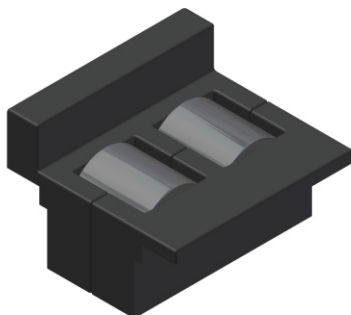


antistatisch  
antistatic  
antistatique

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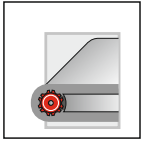
## mit Bord

With board · Avec épaulement



antistatisch  
antistatic  
antistatique

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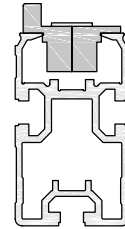
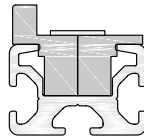
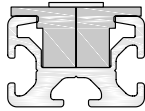


**ROLLENEINSATZ**  
ROLLER INSERT  
ELEMENT A GALETS



**Anwendungen**

Applications · Applications



**WERKZEUGE UND VORRICHTUNGEN**  
TOOLS AND APPLIANCES  
OUTILS ET DISPOSITIFS



20



■ 14.02

30



■ 14.03

40

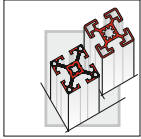


■ 14.04

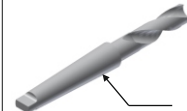
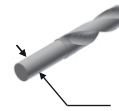
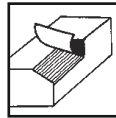
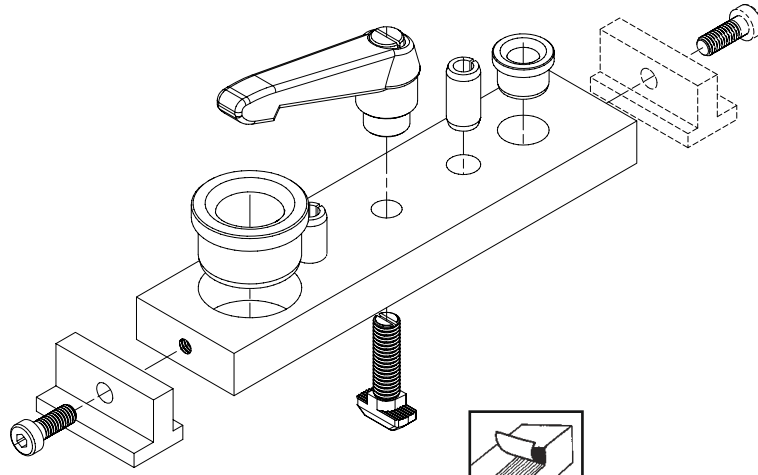
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■ 14.05



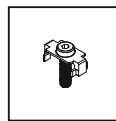
**WERKZEUGE UND VORRICHTUNGEN**  
**TOOLS AND APPLIANCES**  
**OUTILS ET DISPOSITIFS**



**5-VS-10**



05.01793.00



➔ ■ 3.16



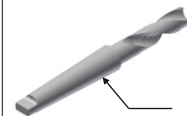
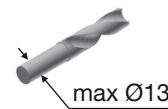
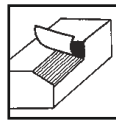
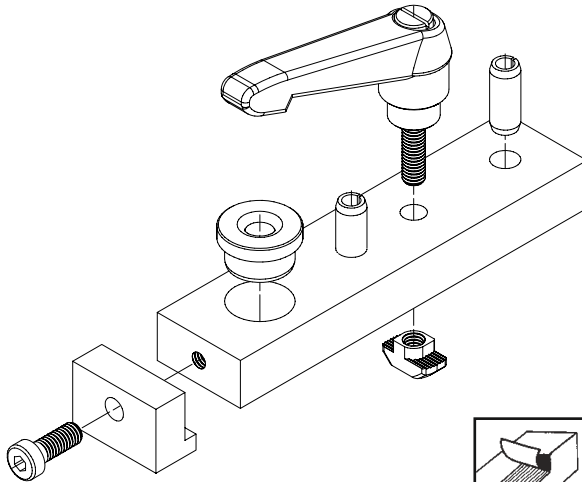
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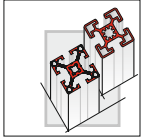
Technische Änderungen vorbehalten



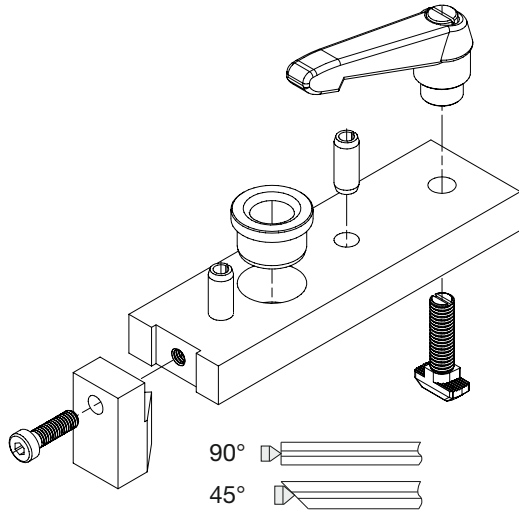


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<b>8E-GV-10.5</b>				
	05.02162.00	 → ■ 3.02	05.02178.00	
<b>8E-BV-11</b>				
	05.01390.00	 → ■ 3.06	 05.02360.00	
<b>8E-VS-14</b>				
	05.01288.00	 → ■ 3.16	 05.02362.00	05.02362.02
<b>8E-UNI-16</b>				
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			05.02191.00	05.02191.02

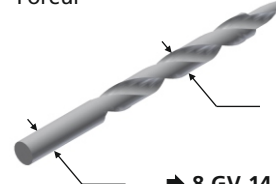
Technische Änderungen vorbehalten



**WERKZEUGE UND VORRICHTUNGEN**  
**TOOLS AND APPLIANCES**  
**OUTILS ET DISPOSITIFS**

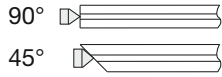


Kernlochbohrer  
 Drill bit  
 Foreur



➔ 8-GV-14

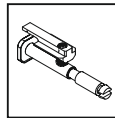
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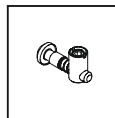
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**8-GV-14**



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➔ ■ 3.02

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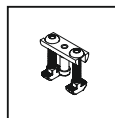
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➔ 8-VS-14

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➔ ■ 3.06



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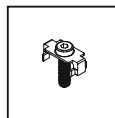
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**8-VS-14**



➔ 8-BV-14

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➔ ■ 3.16



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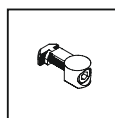
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**8-UNI-20**



➔ 10-UNI-20

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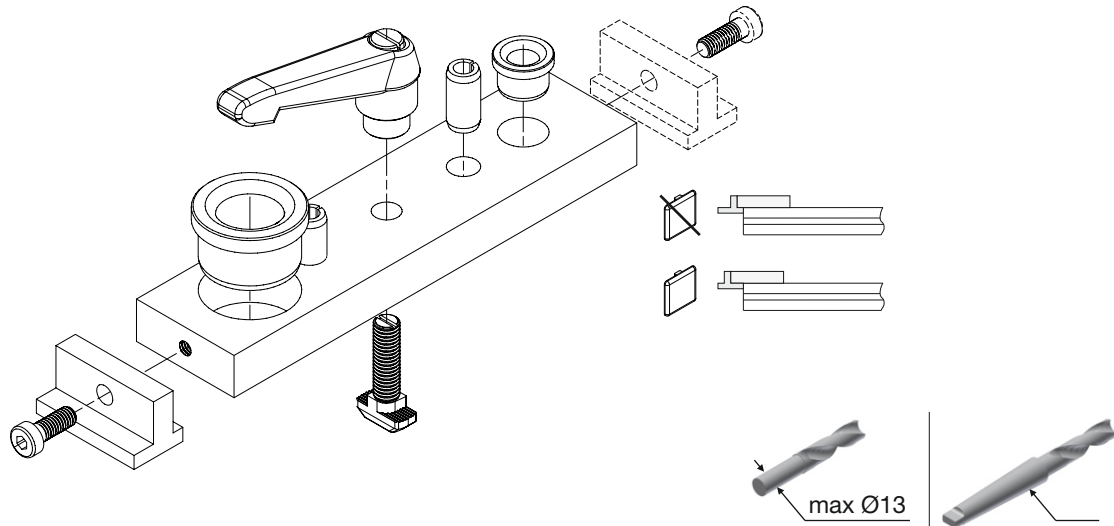


➔ ■ 3.11

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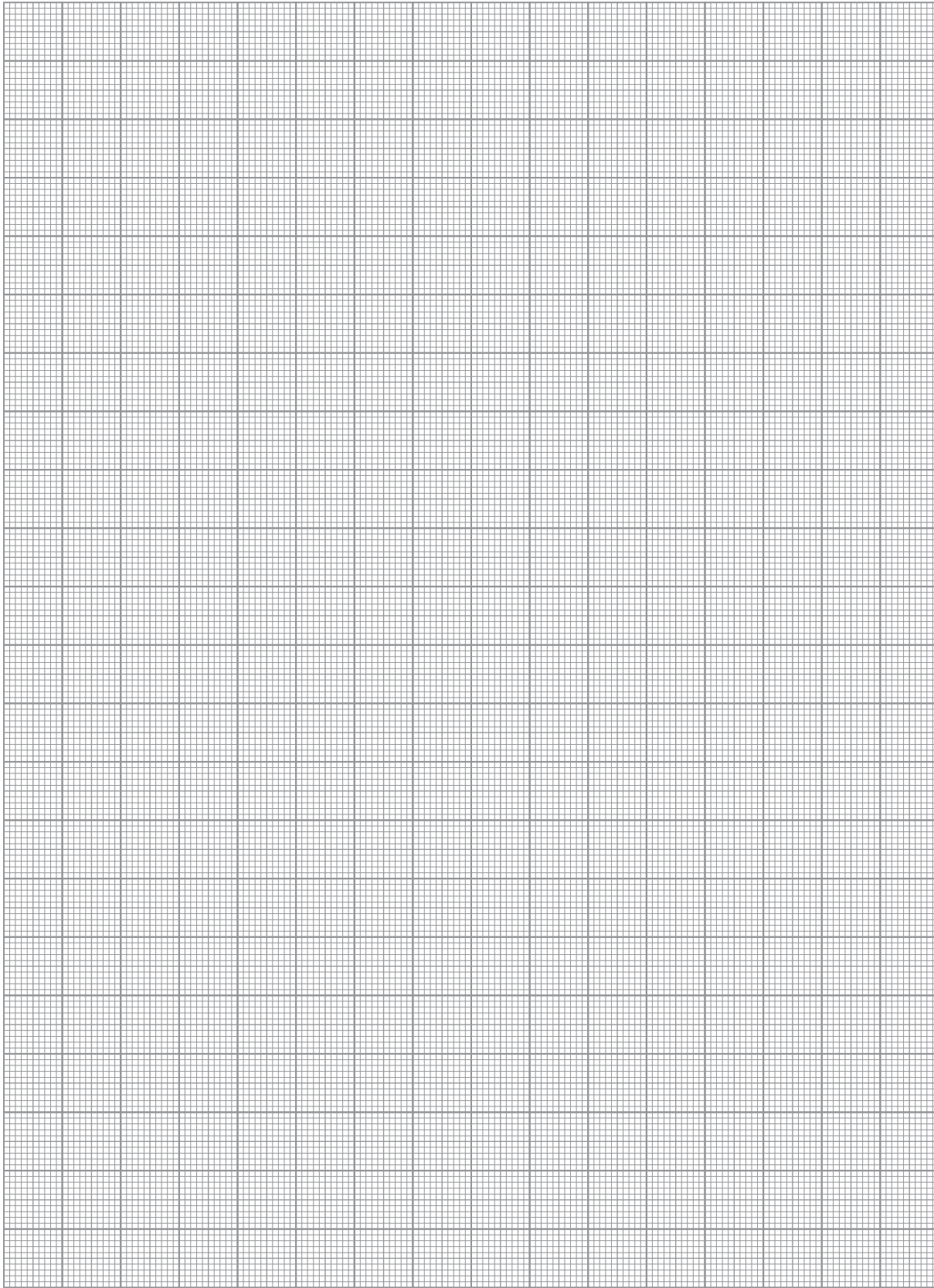
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Technische Änderungen vorbehalten



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<b>10-BV-17</b>	 05.02170.00	 → ■ 3.06		05.02188.00	05.02188.02
<b>10-VS-20</b>	 05.02368.00	 → ■ 3.16		05.02369.00	05.02369.02
<b>10-UNI-20</b>	→ 8-UNI-20 05.02168.00	 → ■ 3.11		05.02186.00	05.02186.02

**NOTIZEN**  
NOTES  
NOTATION



Technische Änderungen vorbehalten

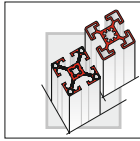
# ÜBERSICHT BESTELLNUMMERN

## PARTNUMBER OVERVIEW

### INDEX

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# ÜBERSICHT BESTELNUMMERN PARTNUMBER OVERVIEW INDEX



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Technische Änderungen vorbehalten

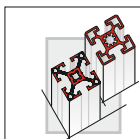
# ÜBERSICHT BESTELNUMMERN

## PARTNUMBER OVERVIEW

### INDEX



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05.01179.00 6.03	05.01226.00 5.06	05.01264.00 9.10	05.01322.00 7.09
05.01180.00 6.03	05.01227.00 5.06	05.01265.00 9.10	05.01324.00 7.08
05.01181.00 6.03	05.01228.00 5.06	05.01266.00 9.10	05.01325.00 7.08
05.01182.00 6.03	05.01229.00 5.06	05.01267.00 9.10	05.01326.00 8.14
05.01183.00 6.02	05.01230.00 5.06	05.01270.00 3.03	05.01327.00 8.14
05.01184.00 6.03	05.01235.00 5.03	05.01271.00 3.03	05.01328.00 8.14
05.01185.00 6.03	05.01236.00 5.03	05.01272.00 3.03	05.01328.01 8.14
05.01187.00 7.03	05.01237.00 5.03	05.01274.00 14.03	05.01328.02 8.14



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05.01328.04	8.14	05.01382.00	5.19	05.01438.00	3.19	05.01480.90	5.02
05.01328.05	8.14	05.01383.00	5.19	05.01439.00	3.19	05.01481.00	5.02
05.01328.06	8.14	05.01384.00	5.19	05.01441.00	3.19	05.01482.00	5.02
05.01335.00	12.11	05.01386.00	5.19	05.01442.00	3.19	05.01483.00	5.02
05.01336.00	12.12	05.01387.00	5.19	05.01443.00	3.19	05.01484.00	5.02
05.01337.00	12.12	05.01390.00	14.03	05.01445.00	3.03	05.01484.90	5.02
05.01338.00	12.12	05.01400.00	3.17	05.01446.00	5.07	05.01485.00	5.02
05.01339.00	12.12	05.01400.00	3.19	05.01447.00	5.07	05.01486.00	5.02
05.01340.00	12.12	05.01401.00	3.19	05.01448.00	5.07	05.01487.00	5.02
05.01341.00	12.11	05.01402.00	3.19	05.01449.00	5.07	05.01488.00	5.02
05.01345.00	6.03	05.01403.00	3.19	05.01450.00	5.03	05.01489.00	5.02
05.01346.00	5.05	05.01404.00	3.19	05.01452.00	5.03	05.01490.00	5.02
05.01347.00	5.05	05.01405.00	3.19	05.01453.00	5.03	05.01490.90	5.02
05.01351.00	3.03	05.01406.00	3.19	05.01454.00	5.03	05.01491.00	5.02
05.01352.00	3.03	05.01407.00	3.19	05.01455.00	5.03	05.01492.00	5.02
05.01353.00	3.03	05.01408.00	3.19	05.01456.00	5.03	05.01493.00	5.02
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05.01358.00	3.03	05.01413.00	3.19	05.01462.00	5.03	05.01499.00	2.65
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05.01360.50	3.03	05.01418.00	3.19	05.01466.00	5.03	05.01504.00	3.18
05.01361.00	3.03	05.01419.00	3.16	05.01467.00	5.03	05.01505.00	3.18
05.01362.00	3.17	05.01420.00	3.30	05.01468.00	5.04	05.01505.00	3.16
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05.01364.00	3.17	05.01422.00	3.30	05.01470.10	3.25	05.01507.00	3.18
05.01365.00	3.17	05.01423.00	3.30	05.01471.10	3.25	05.01508.00	3.18
05.01366.00	3.17	05.01424.00	3.30	05.01472.10	3.25	05.01509.00	3.18
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05.01369.00	3.29	05.01427.00	3.19	05.01475.06	4.14	05.01512.00	8.21
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05.01372.00	3.29	05.01430.00	3.19	05.01476.00	4.14	05.01520.00	5.20
05.01373.00	3.29	05.01431.00	3.19	05.01476.05	4.14	05.01521.00	5.20
05.01374.00	3.29	05.01432.00	3.19	05.01476.06	4.14	05.01522.00	5.20
05.01375.00	3.29	05.01433.00	3.19	05.01476.07	4.14	05.01523.00	3.18
05.01376.00	3.29	05.01434.00	3.19	05.01476.50	4.14	05.01524.00	5.21
05.01377.00	3.29	05.01435.00	3.19	05.01478.00	2.84	05.01525.00	5.21
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Technische Änderungen vorbehalten



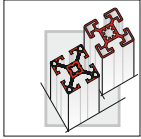
# ÜBERSICHT BESTELNUMMERN

## PARTNUMBER OVERVIEW

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05.01530.00 9.10	05.01587.00 6.02	05.01644.00 3.11	05.01674.07 8.13
05.01531.00 9.10	05.01590.00 3.03	05.01644.50 3.11	05.01678.01 3.07
05.01538.00 3.15	05.01591.00 3.03	05.01645.00 2.09	05.01679.01 3.07
05.01539.00 5.21	05.01592.00 3.03	05.01646.00 2.09.1	05.01680.00 3.09
05.01542.00 8.21	05.01593.00 3.03	05.01649.00 3.18	05.01680.20 3.09
05.01545.00 3.03	05.01594.00 3.03	05.01650.00 8.19	05.01681.00 5.18
05.01548.00 5.20	05.01596.00 3.03	05.01651.00 8.19	05.01682.00 3.09
05.01549.00 5.20	05.01597.00 3.03	05.01651.11 8.19	05.01682.02 3.09
05.01553.00 3.03	05.01598.00 3.03	05.01651.12 8.19	05.01682.20 3.09
05.01554.00 3.03	05.01599.00 8.29	05.01651.13 8.19	05.01682.22 3.09
05.01555.00 3.03	05.01600.00 8.32	05.01652.00 3.26	05.01683.00 3.09
05.01556.00 3.03	05.01602.00 2.09	05.01652.50 3.26	05.01683.20 3.09
05.01556.50 3.03	05.01603.00 2.09	05.01653.00 3.26	05.01685.00 5.07
05.01557.00 3.03	05.01605.00 2.09	05.01653.50 3.26	05.01686.00 5.07
05.01558.00 4.12	05.01606.00 2.09.1	05.01654.00 3.26	05.01687.00 5.07
05.01558.05 4.12	05.01607.00 2.09.2	05.01654.50 3.26	05.01688.00 5.07
05.01558.06 4.12	05.01608.00 3.11	05.01655.00 3.25	05.01689.00 3.09
05.01558.07 4.12	05.01609.00 3.11	05.01656.00 3.25	05.01689.02 3.09
05.01558.20 4.12	05.01609.50 3.11	05.01658.00 2.09.1	05.01689.20 3.09
05.01558.50 4.12	05.01610.00 3.11	05.01659.00 2.09.2	05.01689.22 3.09
05.01560.00 3.16	05.01610.50 3.11	05.01660.00 3.23	05.01690.00 6.06
05.01561.00 3.16	05.01618.00 3.16	05.01661.00 3.23	05.01691.00 6.06
05.01562.00 3.16	05.01619.00 3.18	05.01662.00 3.23	05.01694.05 8.03
05.01565.00 4.14	05.01620.00 3.18	05.01663.00 2.09.2	05.01695.00 5.06
05.01565.50 4.14	05.01621.00 3.18	05.01664.00 2.09.2	05.01696.00 5.06
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05.01569.00 3.21	05.01623.00 6.08	05.01667.00 8.13	05.01698.00 7.02
05.01570.00 3.21	05.01624.00 6.08	05.01668.00 8.13	05.01699.00 3.09
05.01570.00 9.03	05.01625.00 5.02	05.01669.00 8.13	05.01699.20 3.09
05.01571.00 3.21	05.01625.90 5.02	05.01670.00 8.13	05.01700.00 2.75
05.01571.12 9.05	05.01626.00 5.02	05.01671.00 8.13	05.01702.00 2.75
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05.01574.00 4.10	05.01628.00 5.02	05.01671.06 8.13	05.01705.00 2.79
05.01575.00 4.10	05.01629.05 8.02	05.01671.07 8.13	05.01706.00 2.79
05.01576.00 4.10	05.01630.05 8.02	05.01672.00 8.13	05.01707.00 2.79
05.01577.00 4.10	05.01632.00 8.09	05.01672.05 8.13	05.01709.00 2.52
05.01578.00 4.11	05.01632.05 8.09	05.01672.06 8.13	05.01710.00 2.52
05.01579.00 4.11	05.01634.00 8.09	05.01672.07 8.13	05.01711.00 8.30
05.01582.00 5.24	05.01634.05 8.09	05.01673.00 8.13	05.01714.00 12.08
05.01583.00 5.24	05.01638.00 6.08	05.01673.05 8.13	05.01715.00 12.08
05.01583.10 5.24	05.01639.00 8.04	05.01673.06 8.13	05.01716.00 12.08
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05.01722.00	6.03	05.01769.02	3.09	05.01830.00	7.03	05.01857.50	4.13
05.01723.00	6.03	05.01769.20	3.09	05.01831.00	7.03	05.01859.00	7.03
05.01724.00	6.02	05.01769.22	3.09	05.01832.00	7.03	05.01865.00	7.03
05.01725.00	6.02	05.01770.00	3.09	05.01833.00	7.03	05.01866.00	2.36
05.01726.00	6.02	05.01770.20	3.09	05.01836.00	7.03	05.01867.00	2.36
05.01727.00	6.02	05.01772.00	3.09	05.01837.00	7.03	05.01868.00	2.36
05.01728.00	6.02	05.01772.20	3.09	05.01838.00	7.08	05.01869.00	2.36
05.01732.00	8.09	05.01773.00	6.02	05.01839.00	7.09	05.01870.00	3.25
05.01732.05	8.09	05.01774.00	6.03	05.01840.00	3.24	05.01871.00	3.25
05.01733.00	8.09	05.01775.00	6.04	05.01841.00	3.24	05.01872.00	3.25
05.01733.05	8.09	05.01776.00	6.04	05.01842.00	3.24	05.01874.00	7.07
05.01734.05	6.05	05.01777.00	6.04	05.01843.00	3.24	05.01874.50	7.07
05.01735.05	6.05	05.01778.00	6.04	05.01844.00	5.06	05.01874.51	7.07
05.01736.05	6.05	05.01779.00	6.04	05.01845.00	5.06	05.01875.00	7.06
05.01737.05	6.05	05.01780.00	3.04	05.01846.00	5.06	05.01876.00	8.11
05.01738.00	6.03	05.01781.10	3.04	05.01847.00	7.03	05.01878.00	8.11
05.01739.00	6.03	05.01782.00	11.21	05.01848.00	7.03	05.01879.00	12.11
05.01740.00	6.02	05.01782.10	3.04	05.01850.00	7.05	05.01880.00	12.10
05.01741.00	6.02	05.01785.00	6.02	05.01851.00	7.05	05.01881.00	12.10
05.01742.00	6.02	05.01786.00	6.02	05.01852.00	4.12	05.01882.00	12.10
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05.01749.00	8.30	05.01792.00	6.04	05.01854.00	4.13	05.01887.00	3.28
05.01754.30	13.05	05.01793.00	14.02	05.01854.20	4.13	05.01887.10	3.28
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05.01754.50	13.05	05.01806.00	2.05	05.01855.00	4.12	05.01888.10	3.28
05.01758.00	3.18	05.01807.00	8.11	05.01855.05	4.12	05.01889.00	3.28
05.01760.00	3.09	05.01807.50	8.11	05.01855.06	4.12	05.01890.10	12.09
05.01760.20	3.09	05.01808.00	3.21	05.01855.07	4.12	05.01891.10	12.09
05.01761.00	3.09	05.01809.00	3.21	05.01855.20	4.12	05.01892.10	12.09
05.01762.00	3.09	05.01813.00	2.05	05.01855.50	4.12	05.01895.00	12.09
05.01762.02	3.09	05.01814.00	2.50	05.01856.00	4.13	05.01895.05	12.09
05.01762.20	3.09	05.01817.00	2.51	05.01856.05	4.13	05.01896.00	12.09
05.01762.22	3.09	05.01818.00	2.51	05.01856.06	4.13	05.01896.00	12.11
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05.01764.20	3.09	05.01820.00	2.33	05.01856.20	4.13	05.01896.02	12.09
05.01766.00	3.09	05.01823.00	2.35	05.01856.50	4.13	05.01896.03	12.09
05.01766.20	3.09	05.01824.00	2.35	05.01857.00	4.13	05.01896.04	12.09
05.01767.00	3.09	05.01826.00	5.06	05.01857.05	4.13	05.01897.00	12.09
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Technische Änderungen vorbehalten

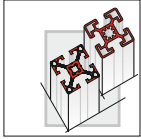
# ÜBERSICHT BESTELNUMMERN

## PARTNUMBER OVERVIEW

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05.01897.03 12.09	05.01980.00 4.05	05.02052.40 11.10	05.02102.51 3.07
05.01897.04 12.09	05.01980.05 4.05	05.02053.05 8.29	05.02103.01 3.07
05.01898.00 12.10	05.01981.00 4.05	05.02054.00 8.20	05.02104.01 3.07
05.01899.00 12.12	05.01981.05 4.05	05.02054.11 8.20	05.02105.01 3.07
05.01900.00 2.57	05.01982.00 4.05	05.02054.12 8.20	05.02108.00 8.09
05.01901.00 2.57	05.01982.05 4.05	05.02054.13 8.20	05.02108.05 8.09
05.01902.00 2.57	05.01985.00 4.05	05.02056.00 8.09	05.02109.00 8.09
05.01903.00 2.57	05.01986.00 4.05	05.02056.05 8.09	05.02109.05 8.09
05.01904.00 2.58	05.01987.00 4.05	05.02057.00 8.09	05.02124.00 3.12.2
05.01910.00 2.59	05.01997.00 5.18	05.02057.05 8.09	05.02124.10 3.12.2
05.01915.00 2.13	05.01998.00 5.18	05.02060.00 8.22	05.02125.00 6.02
05.01916.00 2.13	05.01999.00 5.18	05.02061.00 8.22	05.02126.00 3.05
05.01919.00 2.15	05.02014.20 11.10	05.02062.00 8.22	05.02128.10 3.05
05.01921.00 2.15	05.02014.40 11.10	05.02063.00 8.22	05.02129.00 3.05
05.01922.00 2.15	05.02016.10 11.13	05.02064.00 8.22	05.02130.00 12.04
05.01923.00 2.13	05.02016.20 11.13	05.02065.00 8.22	05.02131.00 12.04
05.01924.00 2.14	05.02022.00 11.05	05.02066.00 8.22	05.02133.00 8.22
05.01925.00 2.13	05.02023.00 11.05	05.02067.00 7.04	05.02134.00 12.05
05.01926.00 2.19	05.02024.00 11.05	05.02068.00 7.04	05.02135.00 12.05
05.01927.00 2.19	05.02025.00 9.06	05.02069.00 7.04	05.02136.05 12.05
05.01928.00 2.14	05.02026.00 9.06	05.02070.00 7.04	05.02139.00 3.13
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05.01933.00 2.14	05.02029.00 9.07	05.02073.00 3.20	05.02141.50 3.22
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05.01937.00 13.15	05.02032.00 3.20	05.02075.00 7.04	05.02142.50 3.22
05.01938.00 13.15	05.02033.00 3.20	05.02080.00 3.12.2	05.02144.00 5.20
05.01940.00 2.37	05.02034.00 11.12	05.02080.10 3.12.2	05.02145.00 5.20
05.01942.00 2.37	05.02034.10 11.12	05.02085.00 8.23	05.02146.00 3.12.2
05.01943.00 2.32	05.02034.20 11.12	05.02086.00 8.23	05.02146.10 3.12.2
05.01946.00 2.83	05.02034.30 11.12	05.02087.20 11.11	05.02147.00 3.12.2
05.01947.00 2.83	05.02035.10 11.13	05.02087.40 11.11	05.02147.10 3.12.2
05.01948.00 8.36	05.02035.20 11.13	05.02088.00 11.20	05.02147.20 3.12.2
05.01949.00 8.36	05.02038.00 5.13	05.02090.00 11.20	05.02148.00 5.20
05.01949.10 8.36	05.02038.05 5.13	05.02091.00 11.20	05.02149.00 5.20
05.01951.00 2.83	05.02039.00 11.26	05.02092.00 11.20	05.02150.00 3.03
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05.02159.00 9.09	05.02203.00 3.12	05.02227.00 5.11	05.02280.00 11.23
05.02160.00 9.09	05.02203.05 3.12	05.02227.05 5.11	05.02280.05 11.23
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05.02164.00 2.24	05.02204.00 3.12	05.02229.00 5.11	05.02282.00 11.23
05.02165.00 2.25	05.02204.05 3.12	05.02229.05 5.11	05.02282.05 11.23
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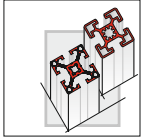
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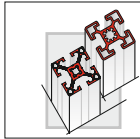
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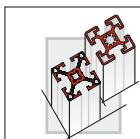


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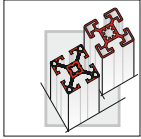
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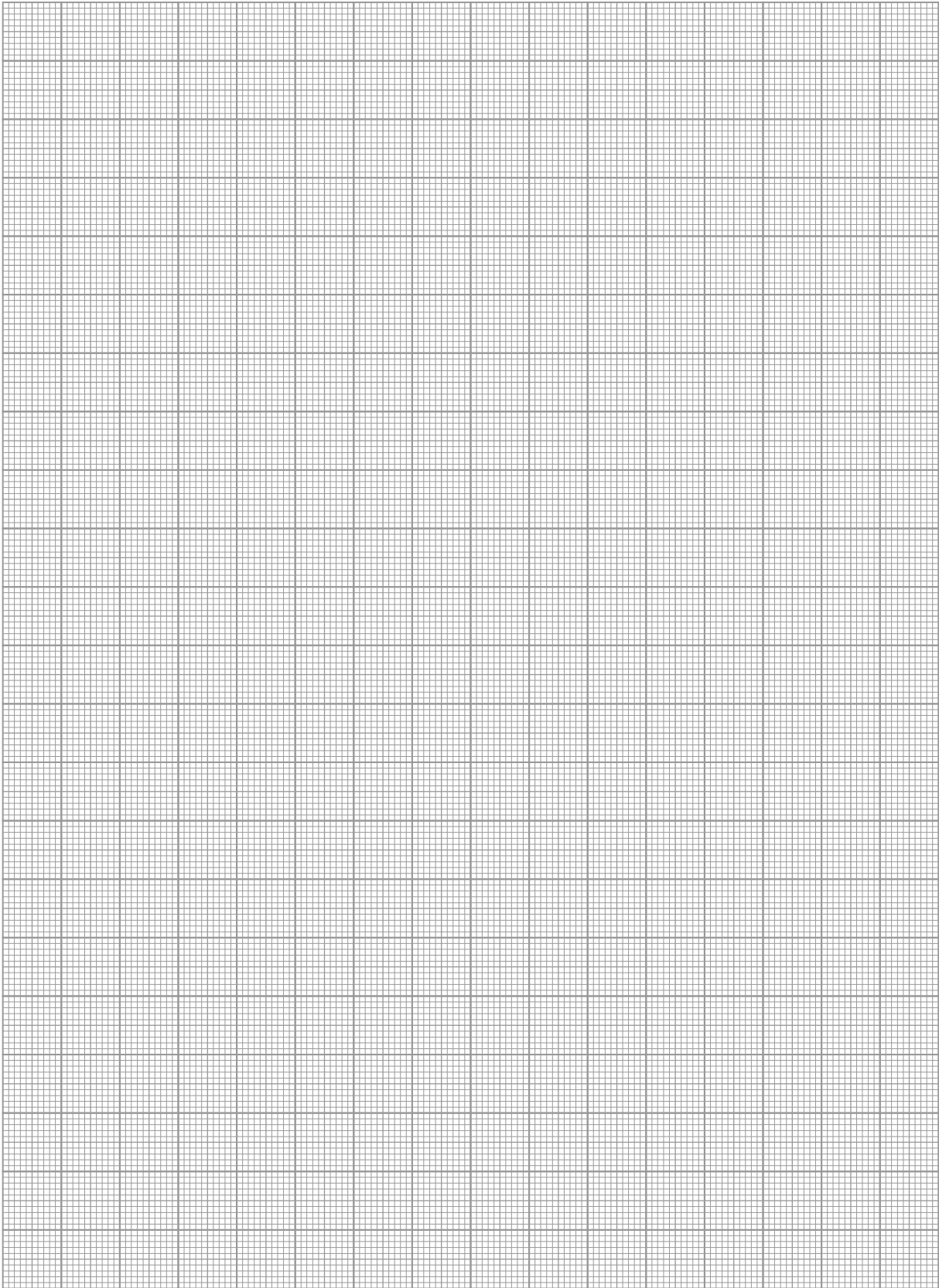
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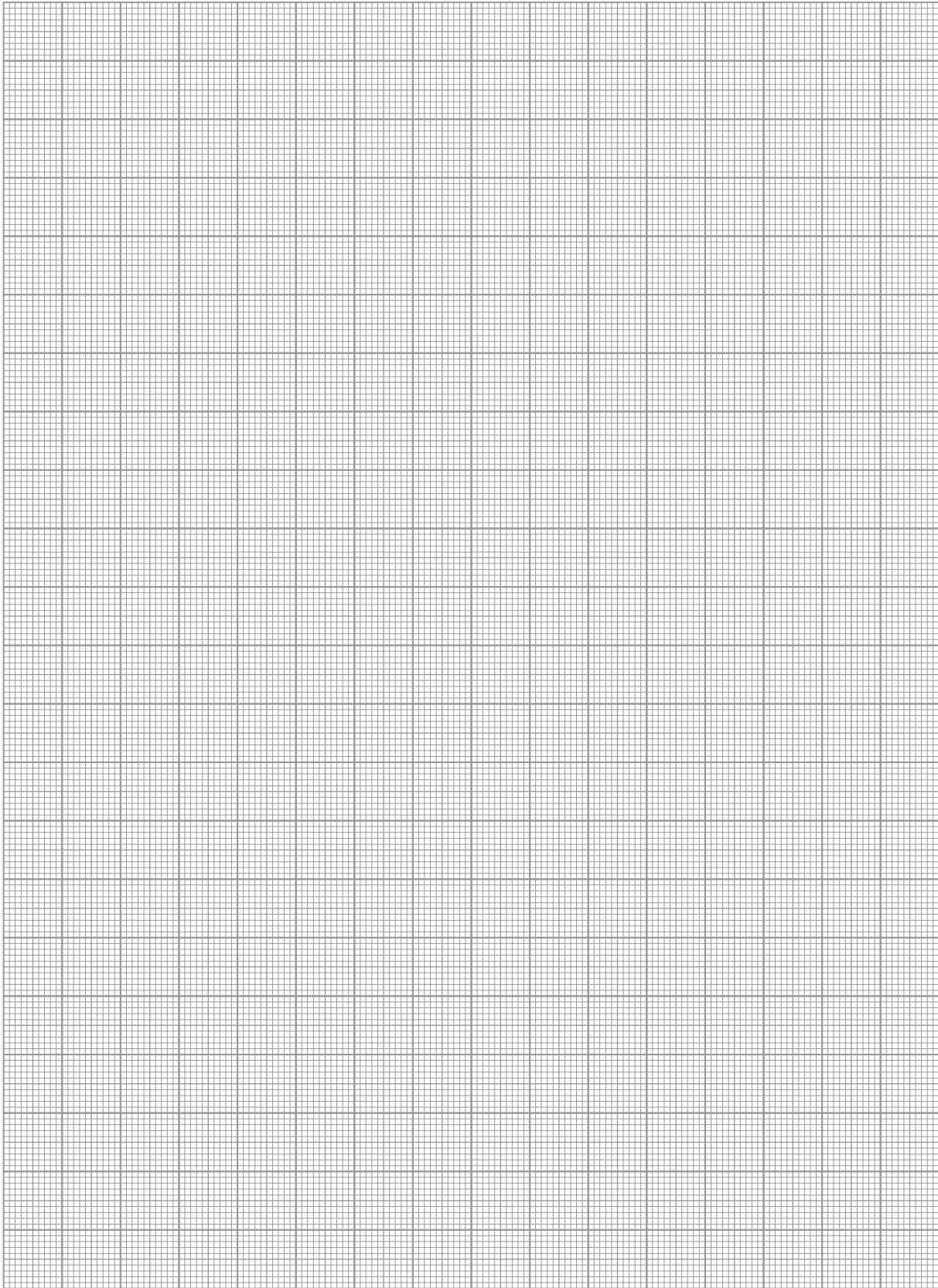


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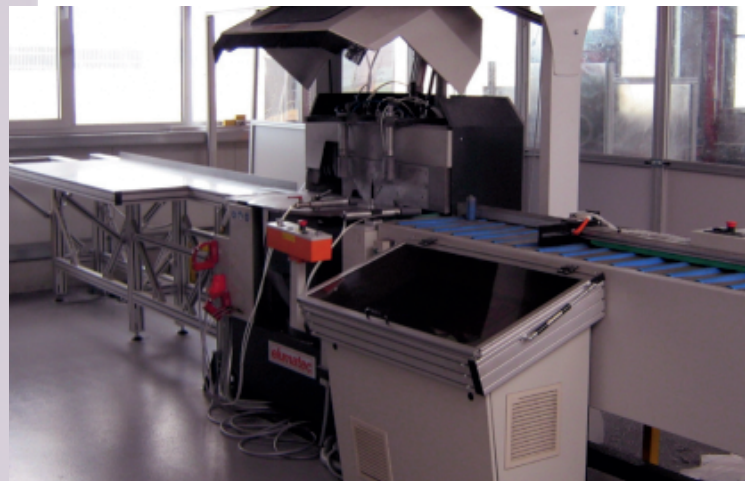
# DIE DIENSTLEISTUNG SERVICE LE SERVICE



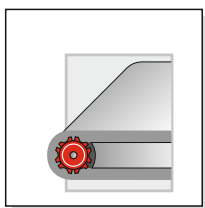
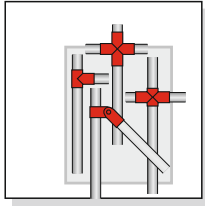
Ein zusätzlicher Service von FM-SYSTEME ist die Fertigung von Frästeilen mit einem leistungsfähigen Maschinenpark: Eine 3-Achs- sowie eine 5-Achs-Maschine für die Bearbeitung von anspruchsvollen Aluminiumteilen. Zwei NC-Fräsmaschinen für Alu-, Stahl-, sowie VA-Teilen speziell für die Bearbeitung von Platten 400x500 mm und 800x1200 mm. Ein NC-Langbearbeitungszentrum für große Stahlteile wie z.B. Träger und große Gehäuse (bis 5.500x2.000x1.200 mm).

An additional service from FM-SYSTEME is the supply of milled parts as production parts and for packet supplies. 2 NC machines for long processing of aluminium parts, a 3-axe and 5-axe NC machine, enable the production of complicated parts. 2 NC milling machines of 400x500 mm and 800x1200 mm, specially for panel parts. 1 NC long processing centre for large steel parts up to dimensions of 5.500x2.000x1.200 mm, specially for girder processing and large panels.

Un service supplémentaire proposé par FM-SYSTEME: La fabrication de pièces mécaniques sur fraiseuse. 2 machines NC de 3 et 5 axes de haute précision, pour la découpe et l'usinage des profilé aluminium. 2 fraiseuses NC pour aluminium, acier et inox pour l'usage de plaques jusqu'à 400x500 mm et 800x1200 mm. 1 centre d'usinage NC grand format pour des dimensions 5.500x2.000x1.200 mm, spécialement pour l'usinage de poutres et grands panneaux.

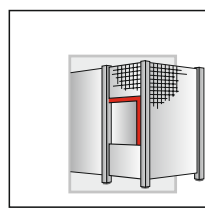
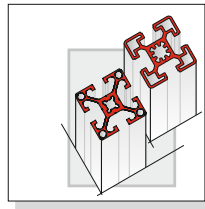


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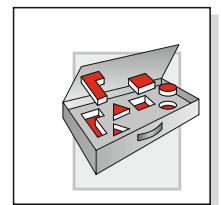
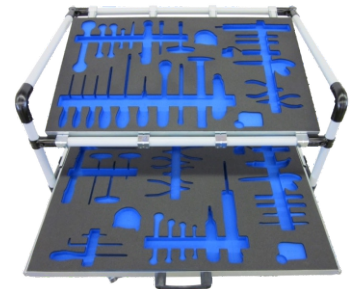
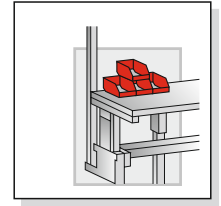
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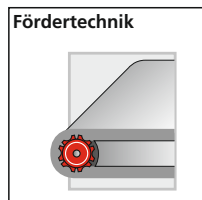
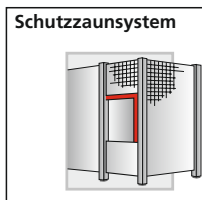
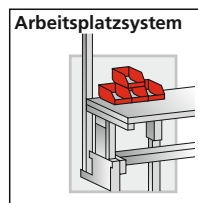
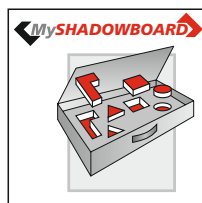
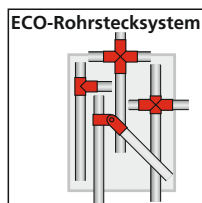
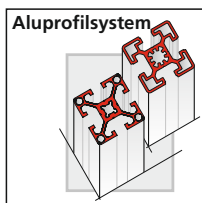








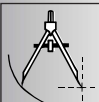


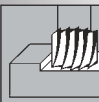


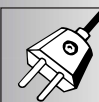
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