

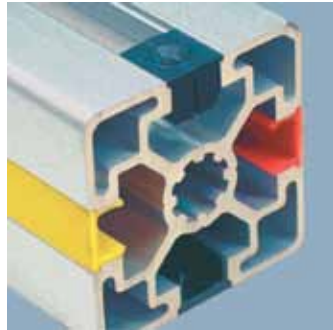
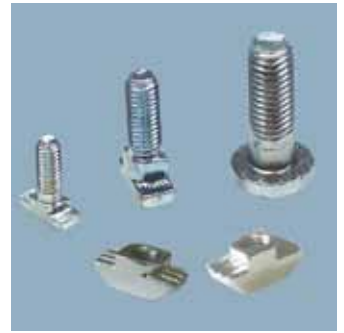
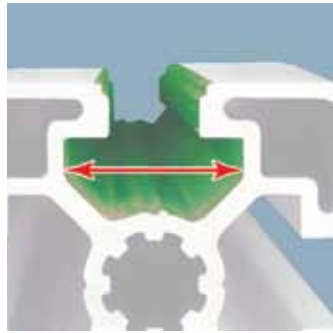
Aluminum Structural Framing System

Version 7.0

Everything to Build Anything™



Exclusive Rexroth Features Add Versatility and Value



Large splined center bore

The industry's largest bore sizes use heavier-duty connectors – up to 16 mm – for more strength and stability. Most popular styles are splined to accept self-tapping screws, saving you the expense of extra tapping.

Wider T-slot, unique edge

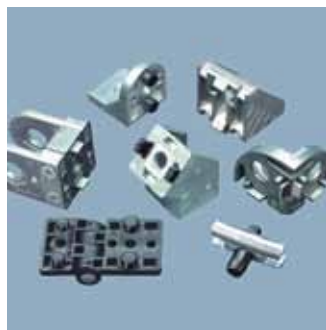
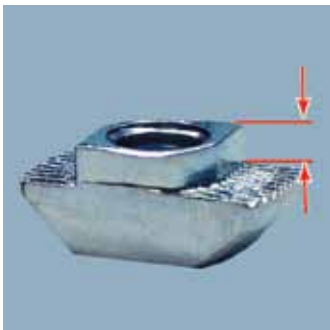
An extra-wide T-slot supports larger connectors; its thick lip makes connections even stronger. The unique Rexroth edge allows plastic T-nuts, cover strips, and mounting strips to fit flush, for a smooth, clean surface.

Twist-in fasteners

Save valuable time with our easy-to-install connectors. While other systems make you load fasteners from the end of the profile, Rexroth swivel-in connectors can be added anywhere along the T-slot.

Serrated T-bolts, T-nuts, and screws

Our serrated Grade 8.8 steel connectors give you the strongest, most vibration-resistant ESD connections. Documented by independent testing laboratories, full technical data is included in this catalog.



Extra thick neck on T-nuts

Our T-nuts have a thicker neck than others, extending farther into the T-slot and providing more thread engagement. Lock them in position with a quarter-turn, with no over-rotation and no guesswork.



Unique alignment tabs

Alignment tabs maximize labor savings by positioning a connector on the profile, preventing rotation and using fewer fasteners. Other systems require up to eight fasteners per side-plate.

Section 1: Introduction

Quick Reference to Catalog Sections

Find EcoShape on page 1-10!



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Profile End Machining Options – See Back Cover Fold-out	

Liability

In no event can the manufacturer accept warranty claims or liability claims for damages resulting from improper use or misuse of the equipment or as a result of changes made to the equipment other than those authorized by the manufacturer. The manufacturer will accept no claim in which non-original spare parts have been used.

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Updates

We constantly make additions and improvements to our products. For the latest updates on new and improved products from our Aluminum Structural Framing System, please visit our website at:

www.boschrexroth-us.com/framing

Section 1: Introduction

1 Why Aluminum Structural Framing?

Do you know why you're seeing more and more metal structures made of Bosch Rexroth aluminum structural framing rather than welded steel? Simple. Bosch Rexroth framing costs less, is more versatile, and does a better job than steel. And perhaps most important, it's easier to work with.

That's because at the heart of the system is the framing's T-slot design: insert a T-bolt into a T-slot and tighten. It's that simple. No welding, no grinding, no nothing. Your frame goes together quickly and easily using a few simple hand tools. Then, choosing from a wide assortment of accessories, you add whatever components you want just as easily.

And when you're done, you have a strong, lightweight structure that's as functional as it is attractive. The high-strength extruded aluminum profiles have a natural-color, anodized surface that's scratch- and corrosion-resistant, never needs painting, and is maintenance-free.



More things can be built, more ways to build them

With Bosch Rexroth aluminum structural framing, you can build just about anything you can imagine. This includes perimeter guarding, work tables, machine bases, industrial guarding, tool racks, robot stands, workstations, carts, display units, and much more. You name it, you can build it. What's more, Bosch Rexroth offers the broadest line of aluminum profiles, connectors, and accessories. This means you can build structures exactly the way you want, to support the loads you want. You never overbuild or underbuild.



And all Bosch Rexroth products are engineered to work together. That means they fit together precisely, align accurately, and assemble quickly. Bosch Rexroth T-slots allow the use of larger and stronger hardware. So once you put a structure together, it stays together.



Lean Manufacturing Workcells with EcoFlow Manual Conveyor

Section 1: Introduction

Made in U.S.A.

Although Bosch Rexroth invented aluminum structural framing in Europe over 30 years ago, today most of the material used in the system is made in America and, of course, is stocked here, too. In fact, all North American Bosch Rexroth distributors maintain a complete inventory of almost all the items shown in this catalog, and can ship items with the **GoTo** logo fast, often with next day delivery. For fastest service, go to www.boschrexroth-us.com/framing for pricing, CAD and to place your order with your local distributor.

Finally, many businesses are becoming or are already global operations. You'll note that English measurements appear in parentheses throughout this catalog, and that conversion charts and equations are listed in the back of the catalog. In today's world, dealing internationally is just a way of life. So we've made it easy for you to convert back and forth, quickly and accurately.

**Need assistance?
Ready to order?**

We realize every question you have probably won't be answered by this catalog. So call **1-800-REXROTH (1-800-739-7684)**, and someone from our fully trained staff will be happy to help you. If you'd like, they can send you our *MTpro* Planning software to help you design a project. See inside back cover for more details. Or they can provide you with the name and phone number of the authorized Bosch Rexroth distributor nearest you to help you get started.

Use our eCommerce website at www.boschrexroth-us.com/framing to make ordering, pricing, and distributor identification as easy as clicking your mouse.

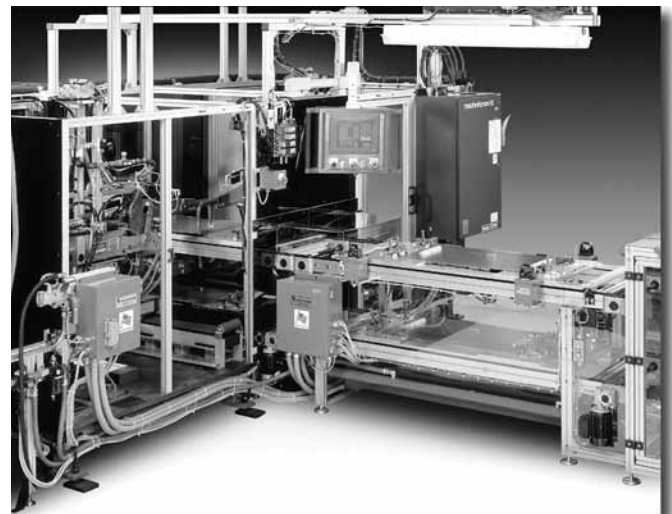


Manual Assembly Station

*Compact
Shot-Peening
Station*



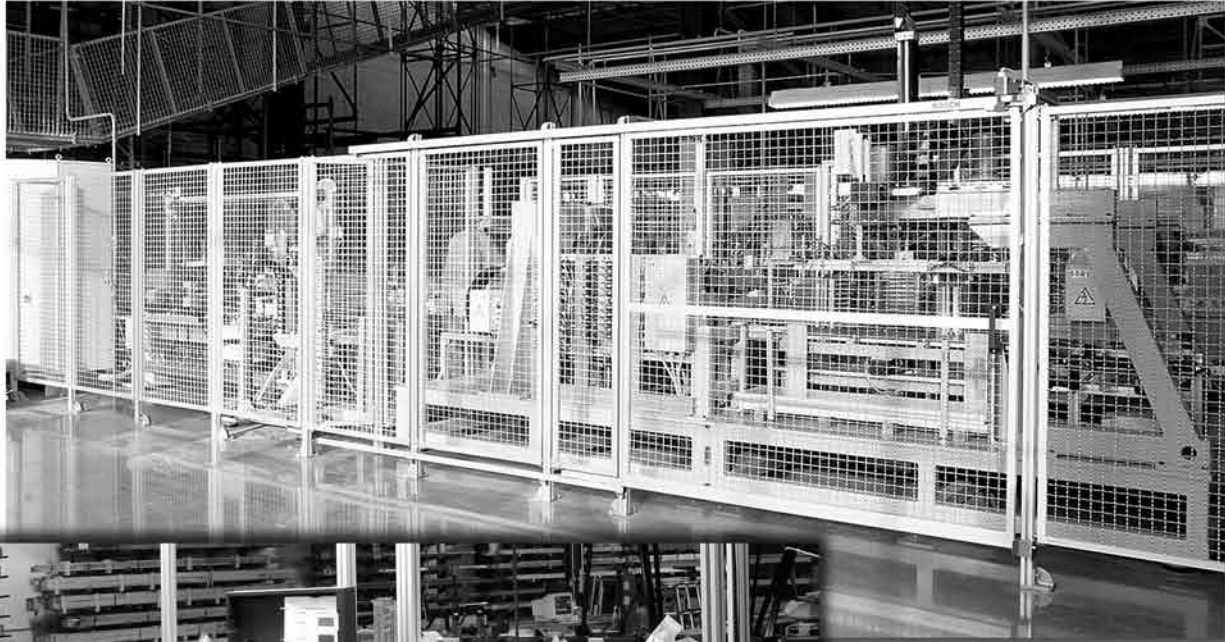
*VarioFlow Buffering Conveyor
with MGE Support Frame*



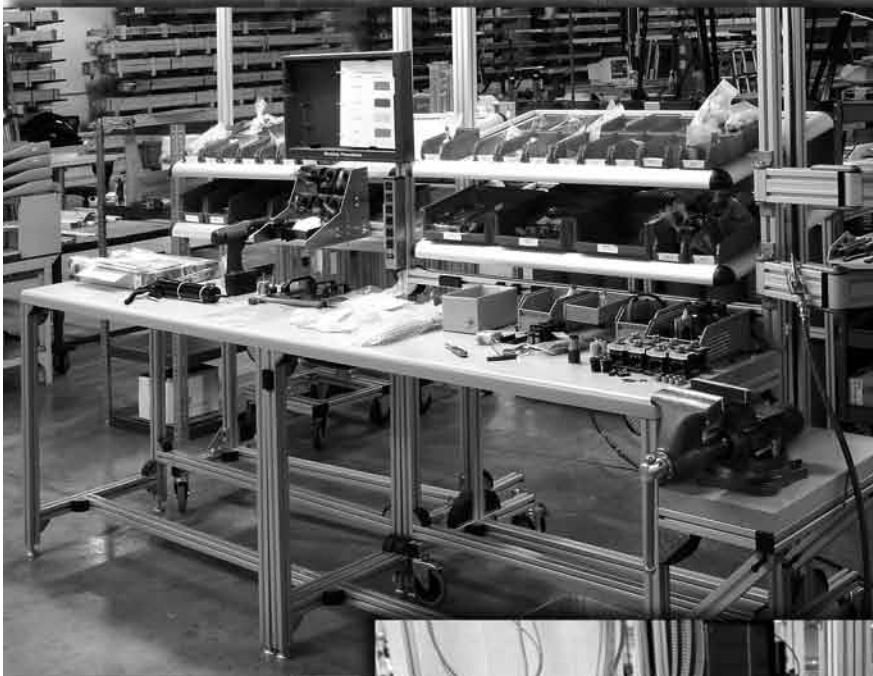
Semi-Automated Welding Station

Section 1: Introduction

1



EcoSafe Guarding Enclosure



Manual Workcell



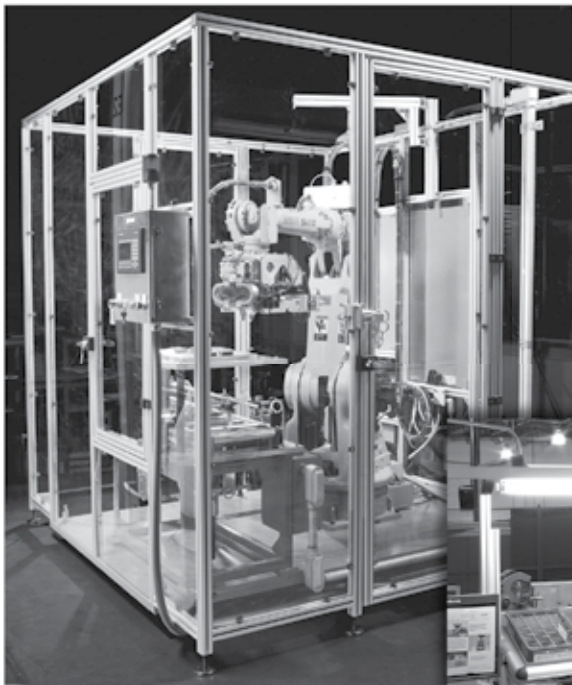
*Workstation with
Manual Conveyor*

Section 1: Introduction



Clean Room Enclosure

Automated Assembly Line



Enclosed Welding Station



Lean Workcell

Section 1: Introduction

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Selecting Profiles and Components

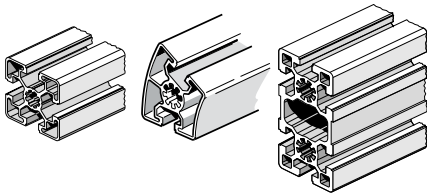
Select the profile

The wide variety of Bosch Rexroth profiles ensures that we offer a profile to cover virtually any application. Selecting which profiles are right for your applications may be a question of function, appearance, strength, or a combination of all of the above.

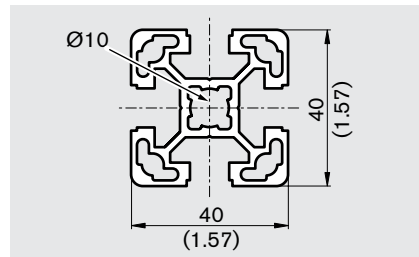
For an overview of available profiles, as well as their technical specifications, see pages 2-0 to 2-7.

Standard profiles, as well as some specialty profiles, are included in Section 2: Profiles. Additional application specific profiles are shown in the section covering that application. For example, for sliding door support profiles, see Section 5: Doors and Door Components.

The Profiles section of this catalog is separated by "series", such as 20-series, 45-series, etc. The first page of each series features three dimensional drawings such as those below, showing all the profiles within that series and the page on which they are detailed.




On the specific profile page, you will find an end-view of the profile with dimensional information like the one below. Dimensions are given in millimeters, with the English equivalents for key dimensions shown in parentheses. Accessories and other components will also have dimensional drawings, with other relevant information such as fastener sizes indicated.



Next to the dimensional drawing of each profile, you will find the part numbers for "Non-Machined End Finish Options": as a single uncut profile and for a package of uncut profiles. Please note that the uncut length and package quantities are not the same for all profiles.

Below the dimensional drawing, you will find "Machined Options". These range from simply cut to a custom length to special drilling or machining for use with certain connectors or other applications. The available machining options are indicated by a brief description, an icon, and the minimum and maximum available length for that machining option.

For example:

Profile 45x45, M12/-,  **specify length >55mm≤6000mm**

means a 45x45 profile, with the center bore tapped M12 on one end and the other end square cut with no additional machining. It can be ordered from a minimum available length of 55mm up to 6000mm maximum length.

A fold-out chart on the inside back cover provides more detailed information about machining options. If you don't see a machined end finish that will meet your application requirements, ask your distributor about other machining options.

In addition, you will find other useful information on many of the profile pages, such as clean room suitability, ESD compatibility, common applications, etc. Throughout the catalog, you will find helpful hints for assembly and applications.

Section 1: Introduction

Connect it all together

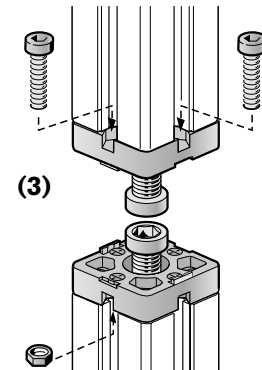
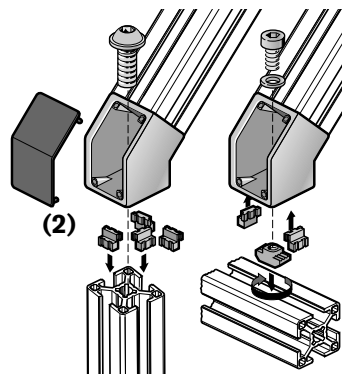
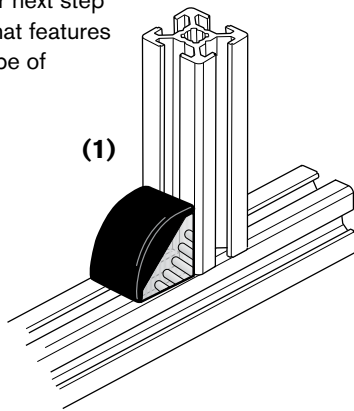
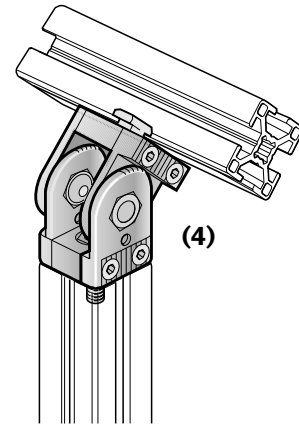
Bosch Rexroth offers a variety of different connectors and fasteners for different applications, materials, and strength requirements.

Some examples of connections include:

- 1) 90° right angle connections for two, three, or even more profiles,
- 2) 45° angle connections,
- 3) 180° straight-line connections, or
- 4) Fixed or movable multi-angle connections.

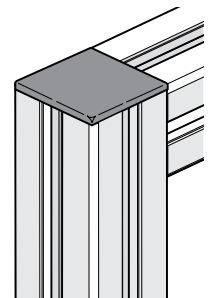
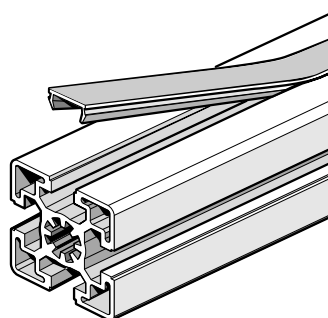
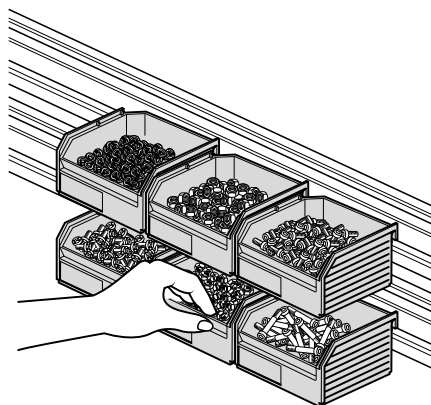
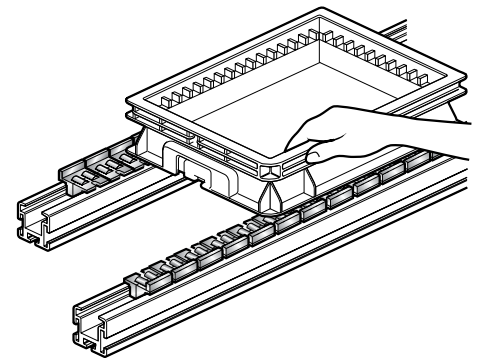
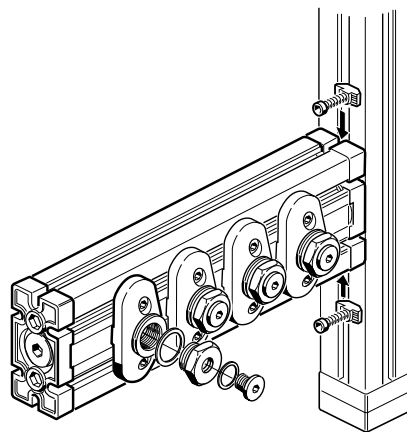
The first step is to determine what kind of connection you need to do the job you want. Your next step is to determine what features you want in the type of connection that you've selected.

For example, some connectors and fasteners give you more flexibility and allow you to quickly change or rearrange your structure; some are stronger, some cost less, some provide concealed connections for a better appearance, some provide complete access to the T-slot, and some require machining of the profile end (tapped, milled, drilled, or square cut). To determine which will give you the best combination of price, performance, and function—based on your application—talk to your authorized Bosch Rexroth distributor.



Add the finishing touches

Whether you are outfitting an ergonomic workstation, building a non-powered material transfer system, or outfitting an entire factory with flow racks and other lean structures, Bosch Rexroth provides a single source for your needs. With everything from decorative end caps and cover strips to pneumatic air bars, we offer everything to build anything.



Section 1: Introduction

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What You Should Know To Help You Get Around This Catalog

Profiles

1. All dimensions in this catalog are metric, and are often followed by U.S. equivalents in parentheses, particularly in key areas such as the technical specifications. For example: 45mm (1.77"). A Metric/English conversion table and Quick Conversion chart are shown on page 1-9, as well as at the back of the catalog.
2. Profiles ordered in bundles are available only in maximum lengths. Single profiles can be ordered in any length (in 1 mm increments within the specified range). Please note that the minimum length varies according to machining option. When ordering single profiles cut to length, be sure to specify the length in millimeters after the part number. Example: **3 842 992 457/ _mm.**
3. The maximum length listed for each profile is the usable length. This means the profile may actually be longer to accommodate anodizing clamp marks.

Non-Profile Components and Lot Sizes

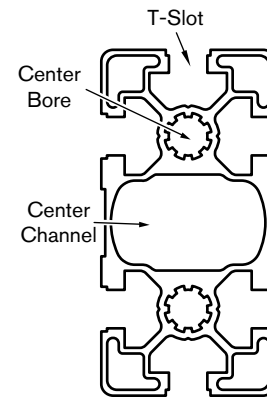
Most non-profile products, such as connectors, end caps, tools, etc. include a column after the description labeled "Lot Size". Unless specifically indicated, all part numbers of non-profile components are single-piece part numbers. However, many items are only available in larger packages, or lots. For example, casters may be sold in lots of 4, and some connectors may be in lots of 10. When ordering these parts, use the listed part number, but the ordered quantity **MUST** be divisible by the lot size; for example, if lot size equals 10, then ordered quantity is 10, 20, 30, etc.

Common profile terms

What prefixes and suffixes mean:

- S8** Self-Tapping Screw: S=self-tapping
- 30x30 1S**: 1S=T-slot on one side only
- 30x30 2S**: 2S=T-slots on two sides
- 30x30 3S**: 3S=T-slots on three sides
- 30x30 2SA**: 2SA=T-slots on two adjacent sides
- 45x45H**: H=heavy duty
- 20x20R**: R=radius corner profile
- 45x45HR**: HR=half-round profile
- 30x30°R**: 30°R=dual radius profile with 30° outside radius.

Other specialty profiles carry suffixes that are explained in the description on that profile's catalog page.

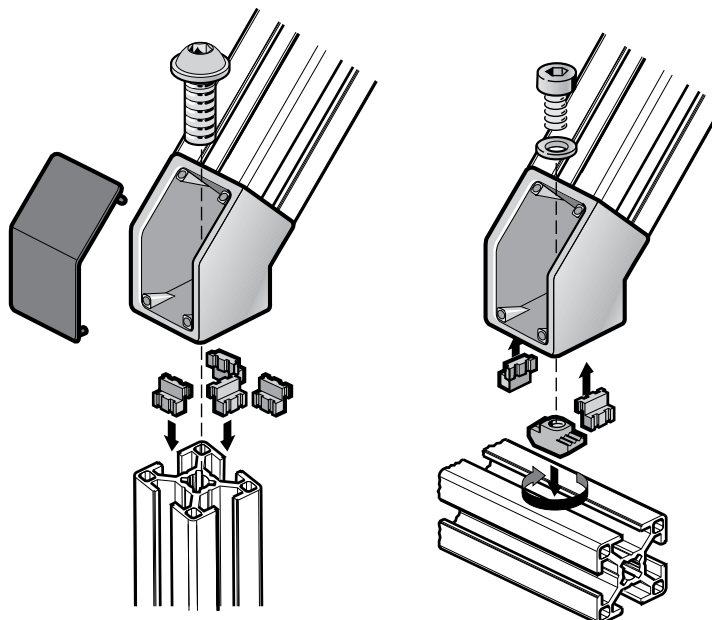


What is included?

In drawings showing multiple items (such as a connector and profiles, as seen here), components that are shaded gray are included with your order. Likewise, included components are typically referenced in the description and dimen-

sional drawing.

For example, when you order the 45° angle 30mm connector kit (part number 3 842 518 426), the kit includes connector, cover, adapters, T-nuts, and all fastening hardware.



Section 1: Introduction











Quick Conversion Chart

Millimeters	Inches	Feet
20	0.79	0.07
30	1.18	0.10
45	1.77	0.15
60	2.36	0.20
90	3.54	0.30
180	7.09	0.59
1000	39.37	3.28
2000	78.74	6.56
5600	220.47	18.37
6000	236.22	19.68

Metric/English Conversion Chart

Measurement	Multiply	by	to get:
Linear	millimeters (mm)	0.03937	inches
	inches	25.4	millimeters (mm)
	kilometers (km)	0.6214	miles
	miles	1.6093	kilometers (km)
Area	millimeters ² (mm ²)	0.00155	inches ²
	inches ²	645.16	millimeters ² (mm ²)
Volume	centimeters ³ (cm ³)	0.06102	inches ³
	inches ³	16.387	centimeters ³ (cm ³)
	1 cm ³ = 1 milliliter (mL)		
Acceleration	meter/second ² (m/s ²)	39.37	inch/second ²
	inch/second ²	0.0254	meter/second ² (m/s ²)
Velocity	meter/second (m/s)	3.281	feet/second
	feet/second	0.3048	meter/second (m/s)
Mass	kilogram (kg)	2.2046	pounds
	pounds	0.4536	kilogram (kg)
Force	kilograms-f (kgf)	9.807	Newtons (N)
	Newtons (N)	0.10194	kilograms-f (kgf)
	pounds-f	4.448	Newtons (N)
	Newtons (N)	0.2248	pounds-f
Pressure	bar	14.5	PSI
	PSI	0.069	bar
Torque	Newton-Meters (Nm)	8.851	pound-inches
	pound-inches	0.11298	Newton-Meters (Nm)
Moment of Inertia	centimeters ⁴ (cm ⁴)	0.02403	inches ⁴
	inches ⁴	41.623	centimeters ⁴ (cm ⁴)

Below are symbols you'll see throughout this catalog. You can use the symbols to quickly identify compatibility between profile, connector, fastener and accessories.

Symbol	What it means	Symbol	What it means
	Profile has 6mm T-slot. Connector, fastener, or accessory is designed to be used with profile with 6mm T-slot.		Profile, connector, or accessory is ESD (Electro-Static Discharge) safe.
	Profile has 8mm T-slot. Connector, fastener, or accessory is designed to be used with profile with 8mm T-slot.		Profile, connector, or accessory is suitable for use in Clean-Room environments and applications.
	Profile has 10mm T-slot. Connector, fastener, or accessory is designed to be used with profile with 10mm T-slot.		New or significantly improved profile, connector, or accessory included on this page of the catalog.
	Connector or accessory can be used to join profile with 6mm T-slot to profile with 8mm T-slot.	\geq OR \leq	Greater than or equal to/Less than or equal to. Used to specify the available size range for cut-to-order profiles, e.g. $\geq 30\text{mm}$ $\leq 5600\text{mm}$ indicates a minimum ordering length of 30mm and maximum of 5600mm.
	Connector or accessory can be used to join profile with 8mm T-slot to profile with 8mm T-slot.	\emptyset	Indicates diameter, such as in drilled holes or shaft thicknesses.
	Connector or accessory can be used to join profile with 8mm T-slot to profile with 10mm T-slot.	GoTo	Item is in our GoTo program and is available for fast delivery from your distributor via the Framing Shop at www.boschrexroth-us.com/framing
	Connector or accessory can be used to join profile with 10mm T-slot to profile with 10mm T-slot.	designLINE	Part is finished in silver matt paint

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EcoShape – Excerpts from Mini-Catalog

2 Bosch Rexroth AG

EcoShape 1.1 | 3842541 818 (excerpt) (2010.02)

Tubular Framing System

EcoShape

Easy³ – Versatile, efficient, simple

Professionals can find out
more at:
www.ecoshape-rexroth.com

Individual solutions for numerous applications

**Easy³ – Versatile, efficient, simple**

This is the EcoShape idea.

Its user-friendly design and its elegant look appeal to a broad range of tastes.

With just a few components and a minimum investment in time and costs, your existing production equipment can be optimized or extended.

EcoShape easily adapts to your specific requirements. You can create the precise solutions you need – and increase productivity.

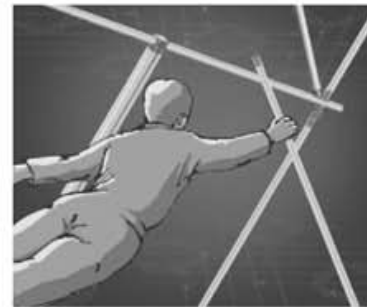
It's the ideal combination of efficiency and lean management. Sometimes less is simply more!

Tubular Framing System

EcoShape

Shape your future with Rexroth's new tubular framing system

Convenient planning – instant, easy implementation



Unmatched versatility

EcoShape is unmatched in its versatility: It makes an almost unlimited number of designs possible with just a few components. The only tubular framing system of its kind, it is T-slot enabled and fully compatible with the profiles in Rexroth's Modular Aluminum Framing System and Manual Production Systems. So you have even more freedom to design professional, custom workstations, material shuttles, and flow racks to meet your needs, as well as many other applications.

- Unique flexibility and versatility for the widest variety of combinations
- Create versatile and uniform applications
- Professionally extend and optimize existing production lines

Strikingly simple

It's child's play to create new solutions or expand existing ones with EcoShape: Intelligent connector technology easily accommodates small tolerance differences to make it easier to cut the round tubes directly on site. As a result, you can improve your production continuously with minimal additional effort, adapting quickly to changing requirements in accordance with the kaizen principle.

- Create the perfect configuration in no time at all with MT_{pro} planning software
- Implement practical applications almost anywhere in record time with only 14 standard components
- Easy to cut, assemble, and handle
- Quickly create reliable and stable connections
- Set up new applications simply, or optimize and expand existing ones with surprisingly little effort

Top efficiency

EcoShape combines unbeatable flexibility with consistent efficiency.

- Implement designs more efficiently using our special MT_{pro} planning software (with 2-D and 3-D display and a parts list generator)
- Configure and assemble directly on-site – saves time and avoids errors (poka yoke)
- Achieve higher stability thanks to optimized profile and connector geometries – with an approximate reduction in weight of over 30% compared to similar steel tube systems
- Create perfect, multi-system combinations with aluminum profiles and Manual Production Systems from Rexroth
- Reduce energy consumption and protect the environment: elements can be reused or recycled
- Ensure safe conductivity of all components thanks to a complete ESD version

Section 1: Introduction

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3842 541 818 (excerpt) (2010.02) | **EcoShape 1.1**

Bosch Rexroth AG 5

Tubular Framing System



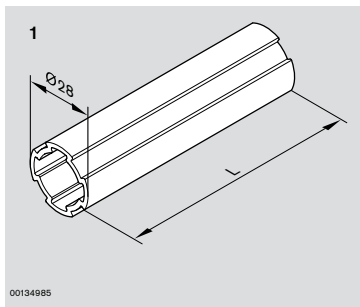
Use the *MTpro* software to create optimum designs in 2-D or 3-D and perfectly forecast your material requirements with the parts list generator.

Section 1: Introduction

6 Bosch Rexroth AG EcoShape 1.1 | 3 842 541 818 (excerpt) (2010.02)

Tubular Framing System

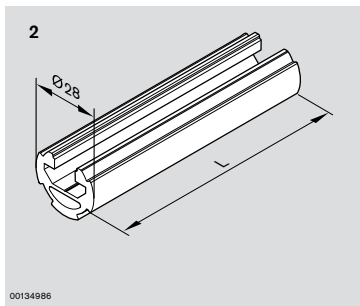
EcoShape: D28L round tube and accessories



D28L round tube

LE	No.
50	3 842 541 211
L = 5600 mm	
LE	No.
1	3 842 996 191 /...
50 mm ≤ L ≤ 5600 mm	

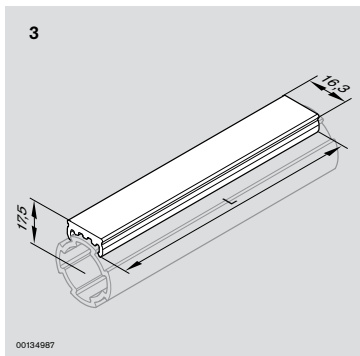
A	=	1.8 cm ²
I _x	=	1.33 cm ⁴
I _y	=	1.33 cm ⁴
W _x	=	0.95 cm ³
W _y	=	0.95 cm ³
m	=	0.48 kg/m



D28L, N10 round tube

LE	No.
20	3 842 541 213
L = 5600 mm	
LE	No.
1	3 842 996 192 /...
50 mm ≤ L ≤ 5600 mm	

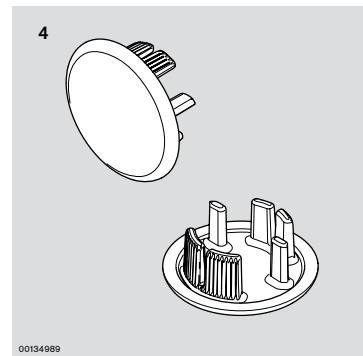
A	=	2.63 cm ²
I _x	=	1.17 cm ⁴
I _y	=	1.97 cm ⁴
W _x	=	0.84 cm ³
W _y	=	1.41 cm ³
m	=	0.71 kg/m



Slide rail

LE	No.
10	3 842 541 196
L = 2000 mm	

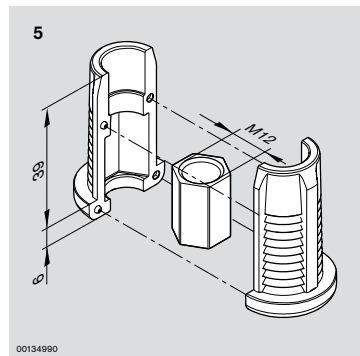
Material: PVC, gray



Cap

No.
20
3 842 541 195

Material: PA 66, black



D28L threaded sleeve

No.
20
3 842 541 185

Material: PA 66, black

Section 1: Introduction

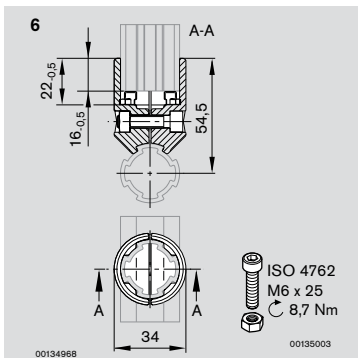
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3842541 818 (excerpt) (2010.02) | **EcoShape 1.1**

Bosch Rexroth AG 7

Tubular Framing System

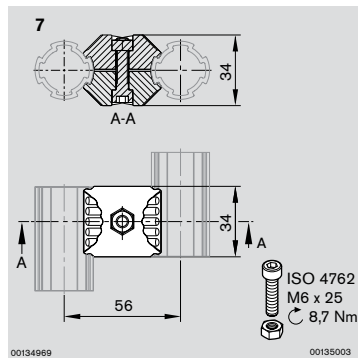
EcoShape: round tube connector



90° connector

No.	No.
20	3 842 541 173

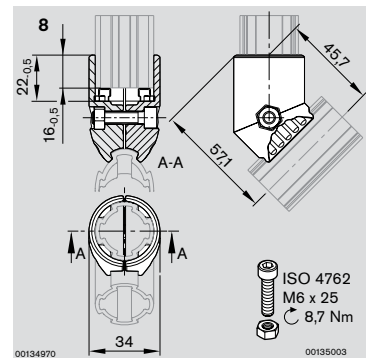
Incl. mounting material
Material: diecast zinc



Parallel connector

No.	No.
20	3 842 541 183

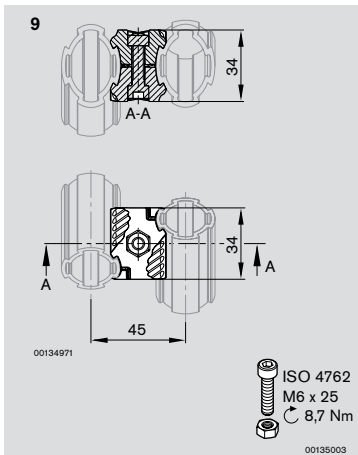
Incl. mounting material
Material: diecast zinc



45° connector

No.	No.
20	3 842 541 175

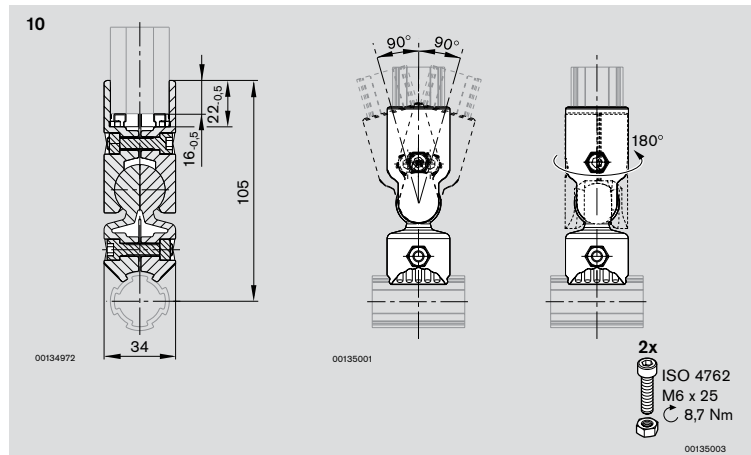
Incl. mounting material
Material: diecast zinc



Cross connector

No.	No.
20	3 842 541 181

Incl. mounting material
Material: diecast zinc



0°-90° connector

No.	No.
20	3 842 541 178

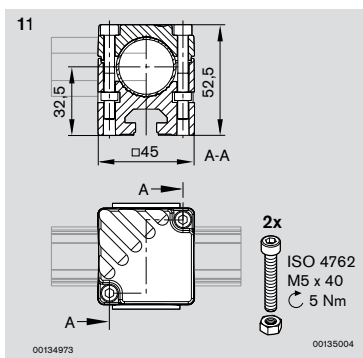
Incl. mounting material
Material: diecast zinc

Section 1: Introduction

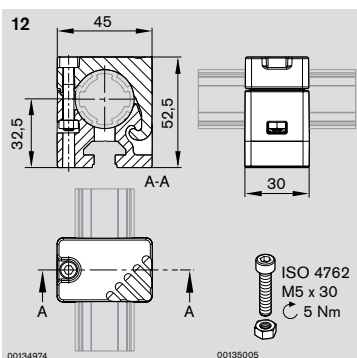
8 Bosch Rexroth AG EcoShape 1.1 | 3 842 541 818 (excerpt) (2010.02)

Tubular Framing System

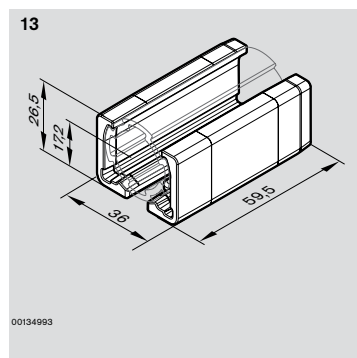
EcoShape: round tube adapter



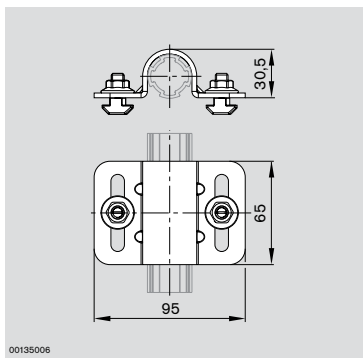
N10, 45 adapter	
	No.
20	3 842 541 187
Incl. mounting material Material: diecast aluminum	



N10, 30 adapter	
	No.
20	3 842 541 190
Incl. mounting material Material: diecast zinc	



XLean holder adapter	
	No.
20	3 842 541 296
Material: PA 66, black	



D28L/N10 tube clip	
	No.
20	3 842 541 193
Incl. mounting material	

Section 1: Introduction

1

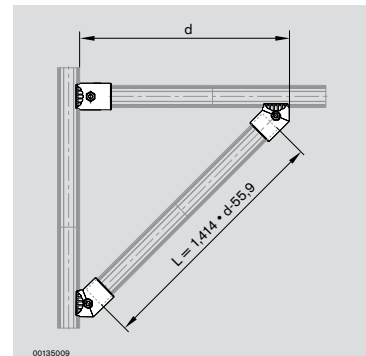
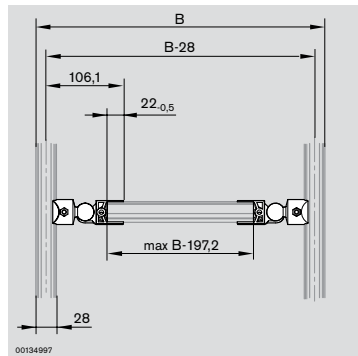
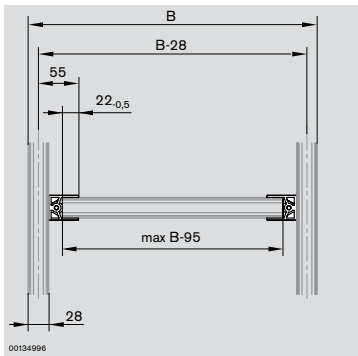
3842541 818 (excerpt) (2010.02) | **EcoShape 1.1**

Bosch Rexroth AG 9

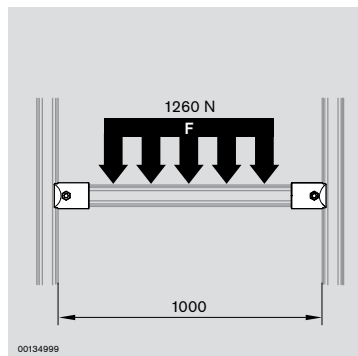
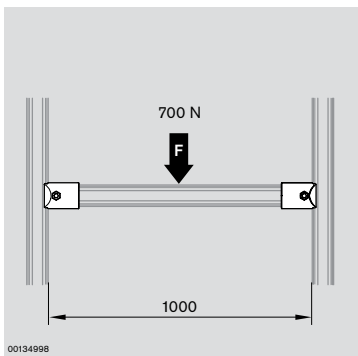
Tubular Framing System

Technical data

Length calculation



Bearing loads and surface loads



Section 1: Introduction

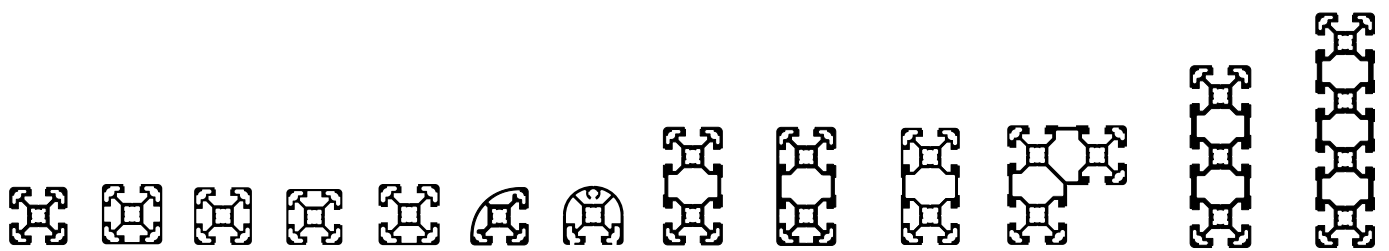
Section 2 Profiles



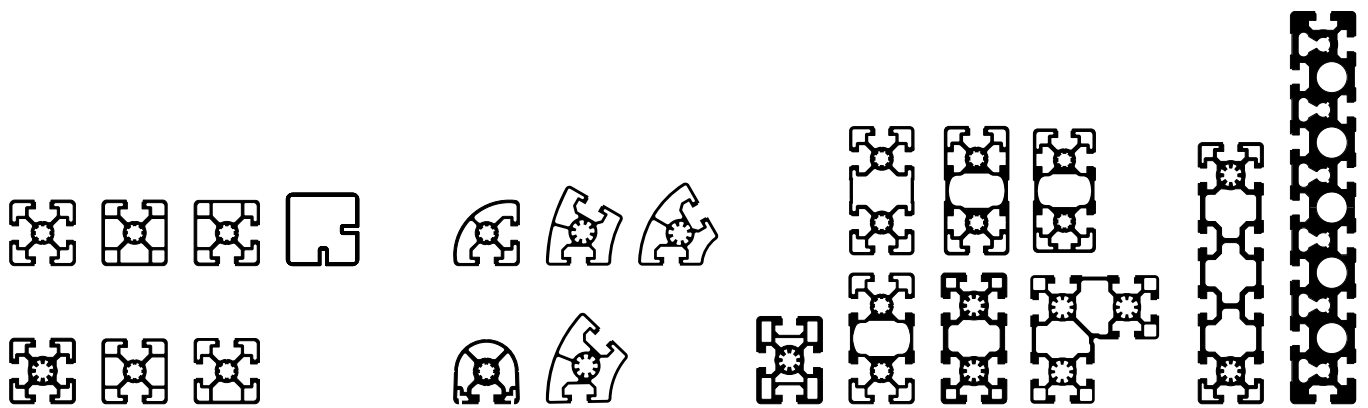
20-Series Profiles: 2-10 to 2-13



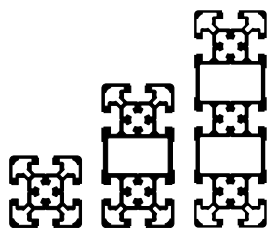
30-Series Profiles: 2-14 to 2-19



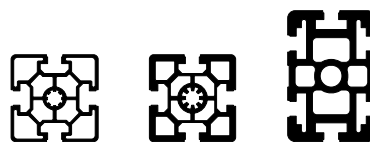
40-Series Profiles: 2-20 to 2-25



45-Series Profiles: 2-26 to 2-37



50-Series Profiles: 2-40 to 2-42

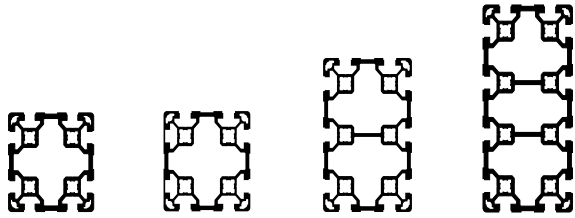


60-Series Profiles: 2-43 to 2-45

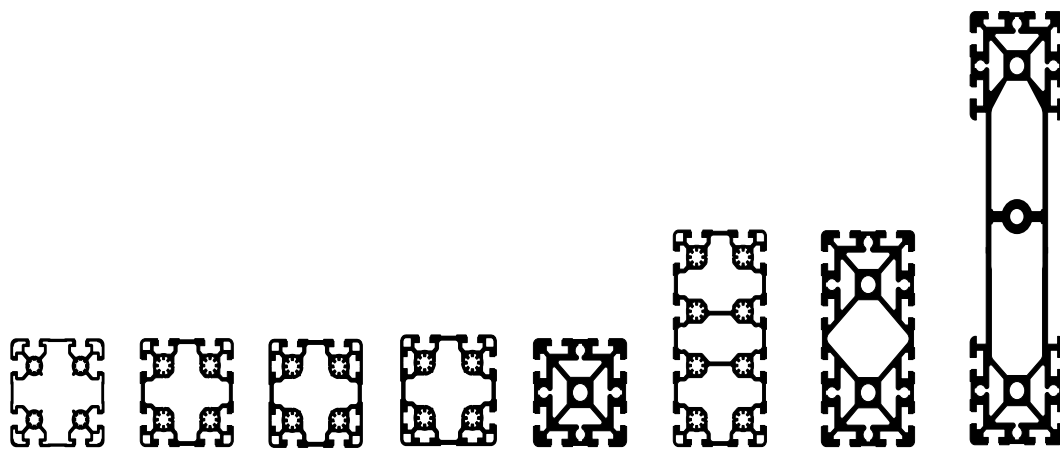
Section 1: Introduction

Section 2 Profiles

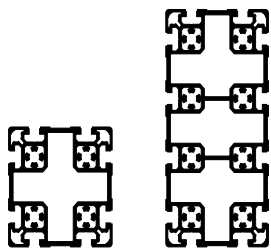
1



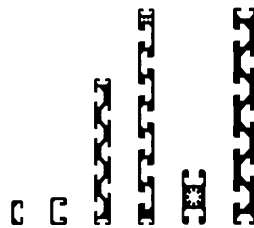
80-Series Profiles: 2-46 to 2-48



90-Series Profiles: 2-49 to 2-54



100-Series Profiles: 2-55 & 2-56

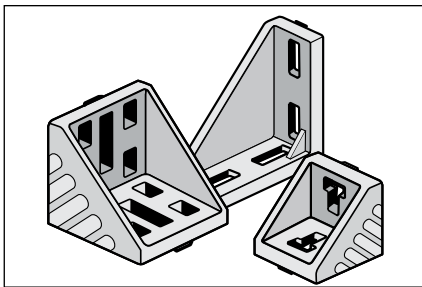


Specialty Profiles: 2-57 to 2-61

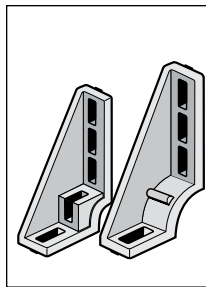
Section 1: Introduction

Section 3 Profile Connectors

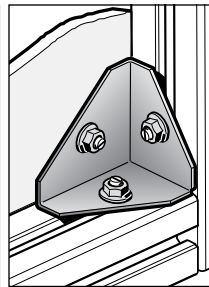
90° Right Angle Connectors



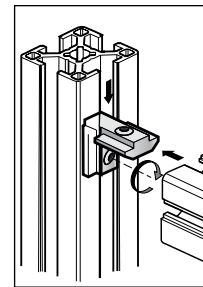
Die-Cast Gussets
 20-Series 3-3 • 30-Series 3-4
 40-Series 3-5 • 45-Series 3-6
 50-Series 3-7 • 60-Series 3-8
 80-Series 3-8 • 90-Series 3-9
 100-Series 3-9



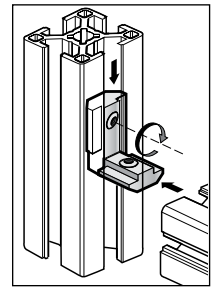
Die-Cast Foundation Brackets
 3-10 & 3-11



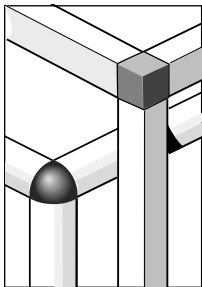
42x60 Sheet Metal Gusset
 3-12



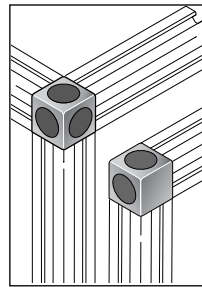
Inside-to-Outside Gussets
 3-12



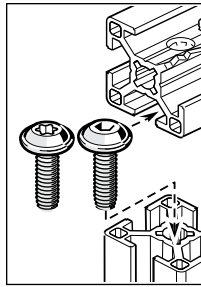
Inside-to-Inside Gussets
 3-13



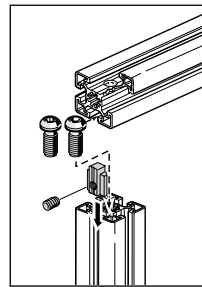
Corner Brackets
 3-14



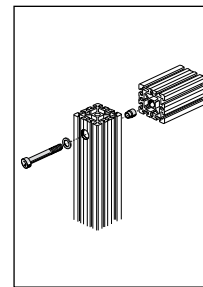
Corner Cube Kits
 3-15



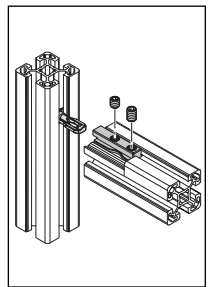
S6, S8, & S12 Self-Tapping Connection Screws
 3-16



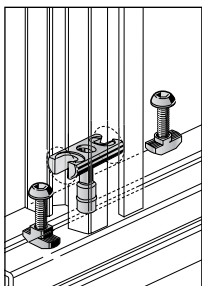
M12 Connection Screws and Anti-Rotation T-Blocks
 3-17



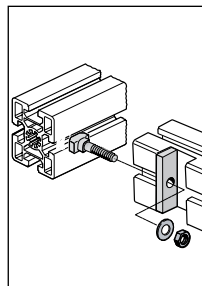
M16 Connection Screw
 3-18



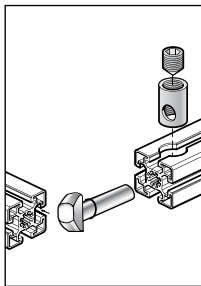
Tension Connectors
 3-18



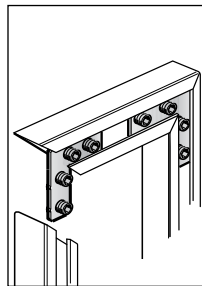
Bolt Connector Kits
 3-19 & 3-20



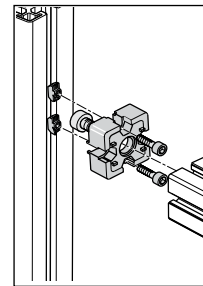
Cross Connector Kit
 3-21



Quick Connectors/Rigid
 3-21



Mitered Corner Connectors
 3-22



T-Connector Kits
 3-23

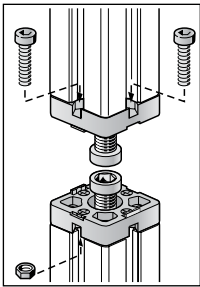
Section 1: Introduction

Section 3 Profile Connectors

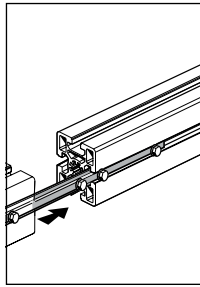
1

180° Straight-Line Connectors

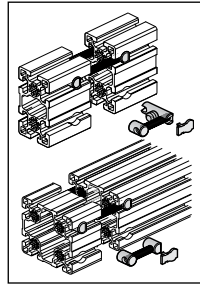
45° Angle Connectors



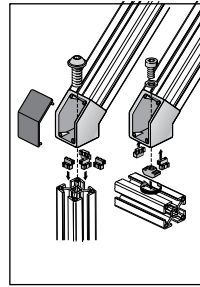
End Connector Kits
3-24



8mm & 10mm Connection Link Kits
3-25

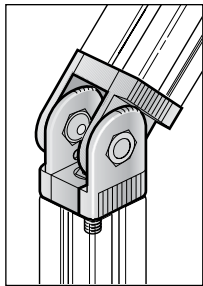


End-to-End Bolt Connector Kits
3-25

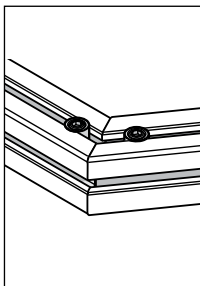


45° Angle Connector Kits – 30mm & 40mm
3-26 & 3-27

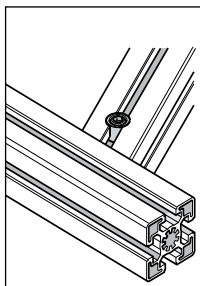
Multi-Angle Connectors



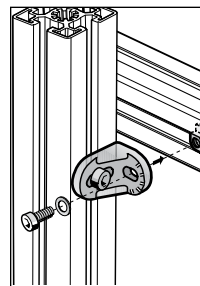
Multi-Angle Connector Kits
3-28 & 3-29



End-to-End Variable Angle Bolt Connector
3-30

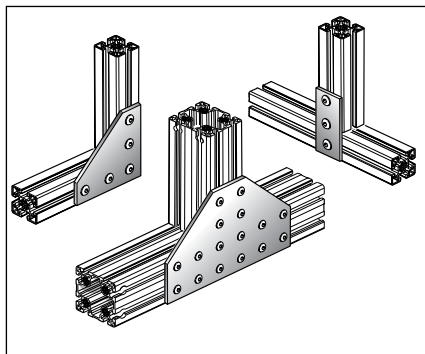


End-to-Side Variable Angle Bolt Connector
3-31



Adjustable Angle Gusset Kits
3-32

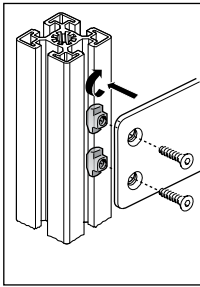
Joining Plates



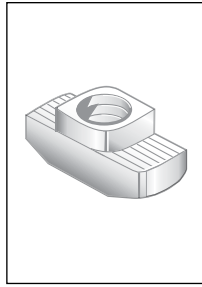
Corner, T-Junction and Rectangular
3-33 to 3-35

Section 1: Introduction

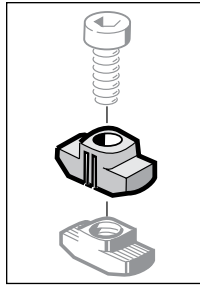
Section 4 Fasteners



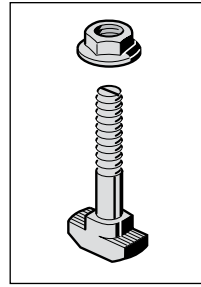
T-Nuts
4-1



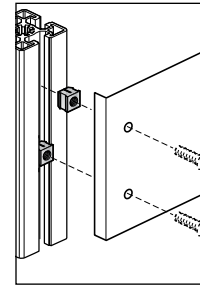
Stainless Steel
T-Nut
4-2



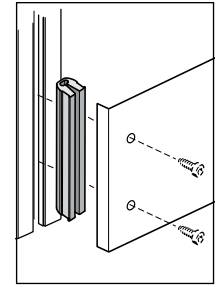
Isolation Cap for
8mm T-Nut
4-2



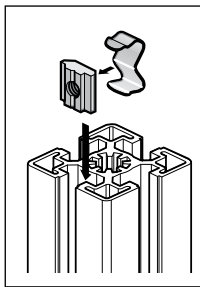
T-Bolt
Fastening Kits
4-3



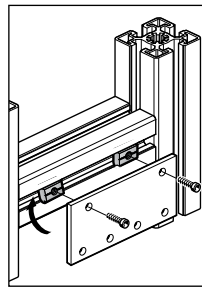
Plastic T-Nut
4-4



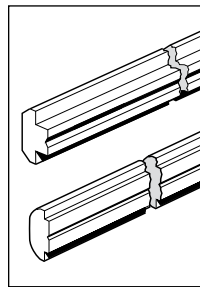
8mm & 10mm
Mounting Strips
4-4



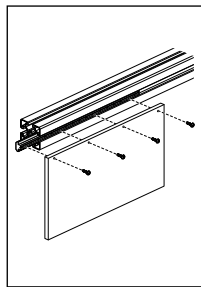
T-Blocks &
Springs
4-5



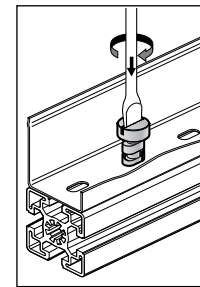
Swivel-In T-Blocks &
Swivel-In T-Blocks
with Springs
4-6



T-Bars &
Swivel-In T-Bars
4-7

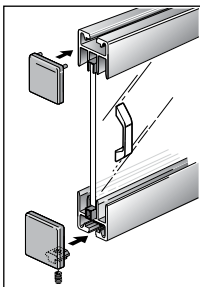


Anchor Strips
4-8

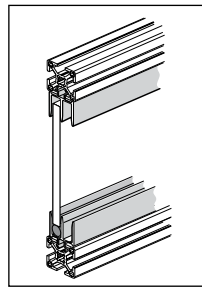


Quick-Lock Sheet
Metal Fasteners
4-8

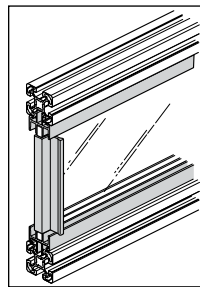
Section 5 Doors and Door Components



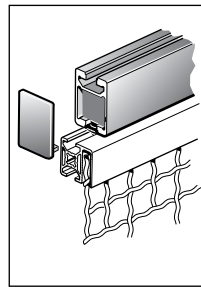
45x45SD
Aluminum Sliding
Guide Profile and
Accessories
5-3



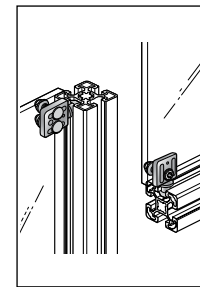
Snap-In Sliding
Door Guides
5-4



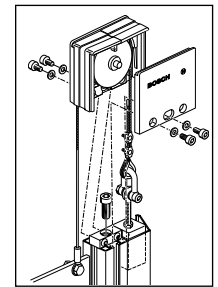
Aluminum Sliding
Door Guide and
Stiffener Handle
5-5



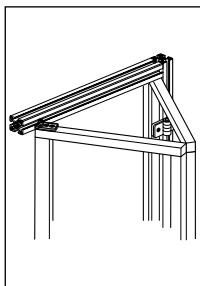
Roller Channel
Profile C30x45
5-6



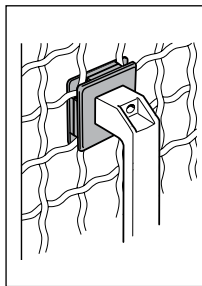
Panel Slider
5-7



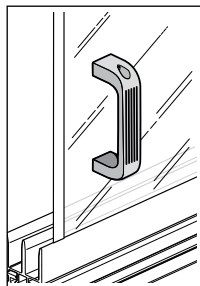
Counterbalance
5-7



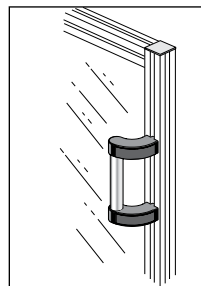
Folding Door Kit
5-8



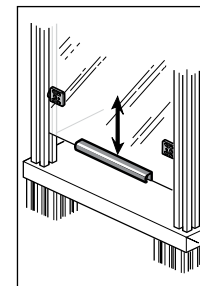
Handle
Mounting Plate
5-8



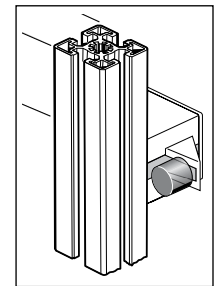
Strap Handles
5-9



Safety Handle
5-9



Bar Handle
5-10

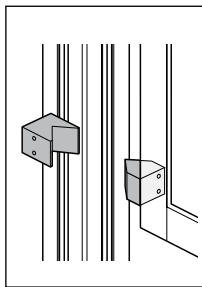


Door Stops
5-10

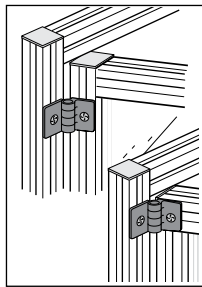
Section 1: Introduction

Section 5 Doors and Door Components

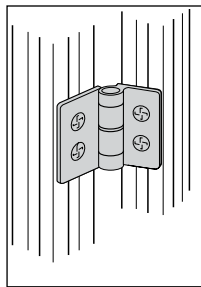
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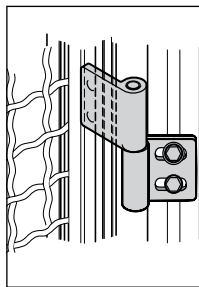
Sliding Door Stop
5-10



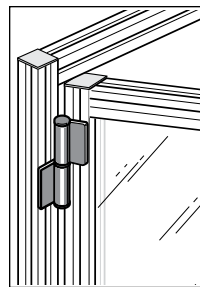
Heavy-Duty Hinges
5-11



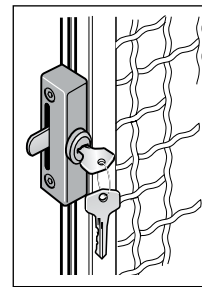
Clean Room Hinges
5-12



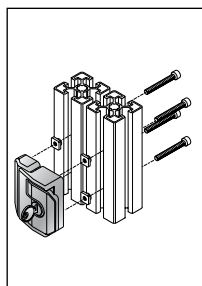
Adjustable Hinge
5-12



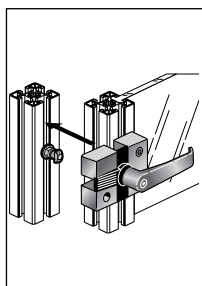
Lift-Off Hinges
5-13



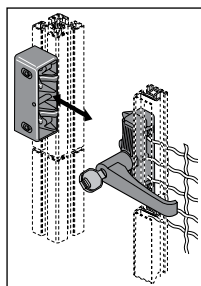
Standard Lock
5-14



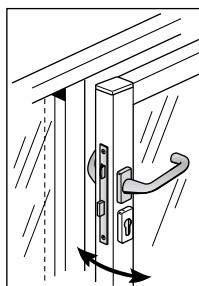
Compact Lock
5-14



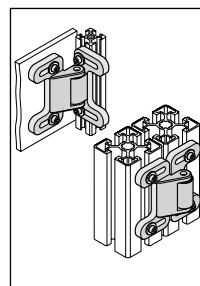
Locks for Swinging
or Sliding Doors
5-15



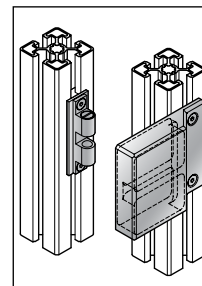
Locks for
Sliding Doors
5-16



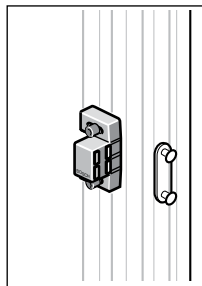
Locks for Heavy
Swinging Doors
5-17



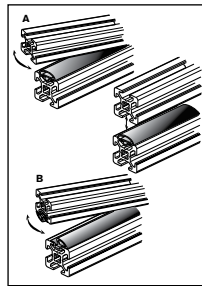
Ball Detent Latch
5-18



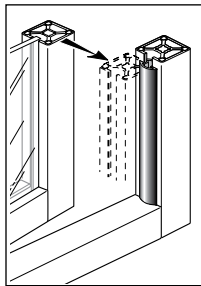
Universal Ball
Detent Latch
5-18



Magnetic Latches
5-19



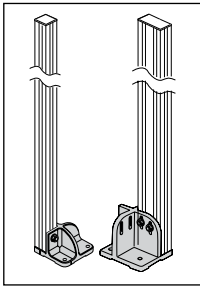
6mm Door Seals
5-20



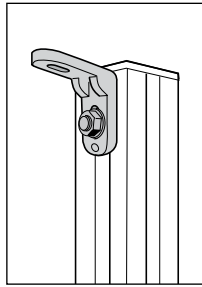
8mm and 10mm
Door Seals
5-20

Section 1: Introduction

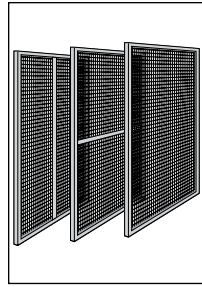
Section 6 EcoSafe™ Guarding and Machine/Safety Enclosures



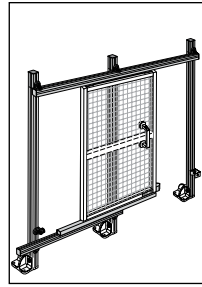
Support Posts
6-4



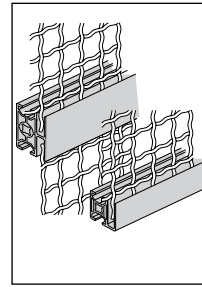
Panel Mounting
Bracket Kits
6-5



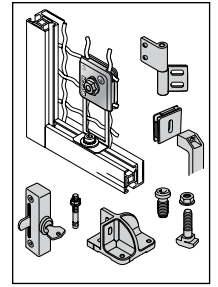
Protective Frames
6-6 & 6-7



EcoSafe Door
Components
6-8 to 6-10

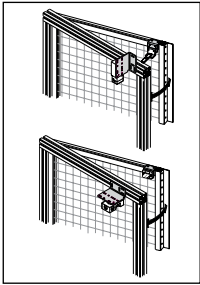


EcoSafe Frame
Profiles
6-11 & 6-12

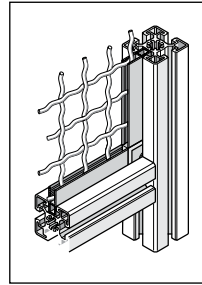


Wire Mesh
Grounding Terminal
& Installation Acces-
sories
6-13 & 6-14

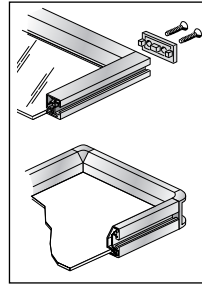
Other Guarding Components



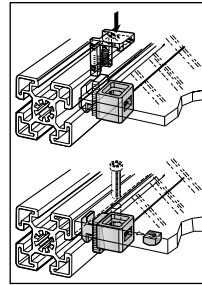
Safety Switch
Mounting Bracket
Kits
6-16



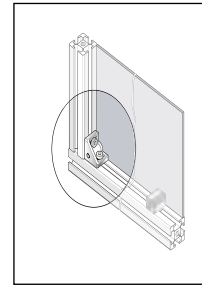
Wire Mesh Frame
Profile and Corner
Connectors
6-17



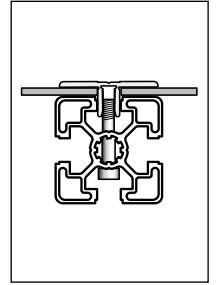
Frame Profiles
22.5x30F &
22.5x45F
6-18 & 6-19



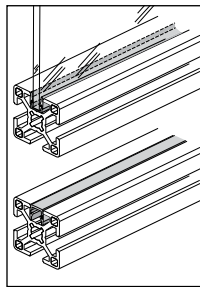
Variofix Panel
Mounting
Fasteners
6-20



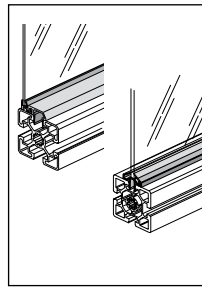
Panel Mount Gus-
sets
6-21



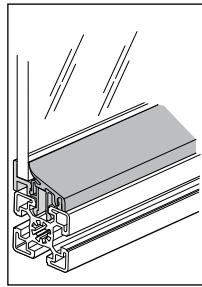
Heavy Duty Clamp
Profiles
6-23



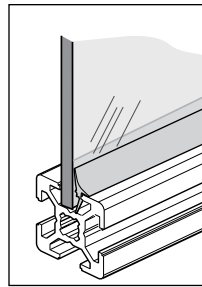
Panel Support
Inserts
6-24



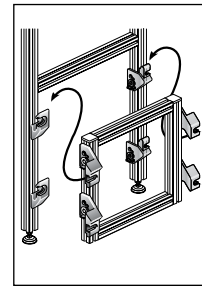
Removable Panel
Support Inserts
6-25



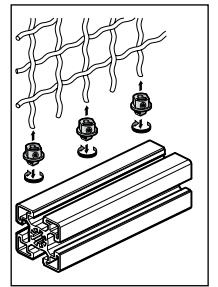
Flush-Mount
Removable Panel
Support Inserts
6-26



Glazing Strip
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Removable Frame
Brackets
6-28

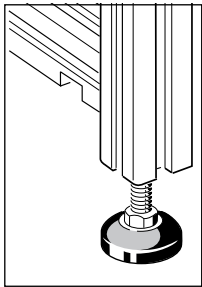


Clamp Bushing
6-29

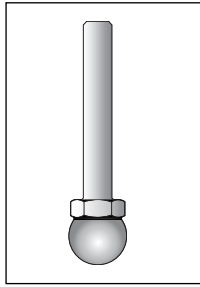
Section 1: Introduction

Section 7 Floor to Frame Elements

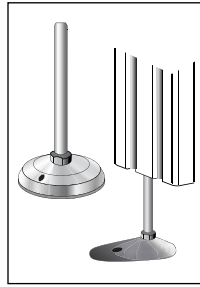
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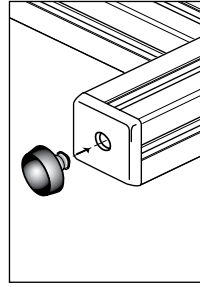
Leveling Feet and Accessories
7-1 & 7-2



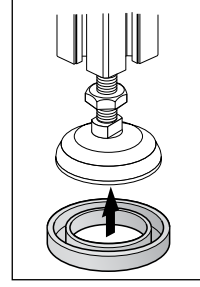
Steel Spindles
7-3



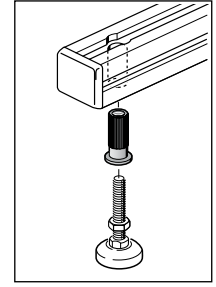
Base Plates with Screw Holes
7-4



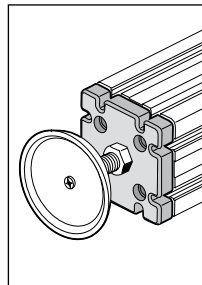
Floor Guard Foot
7-5



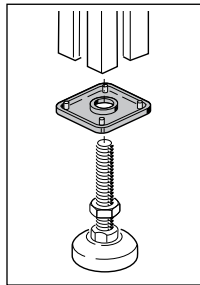
Dampening Pads
7-5



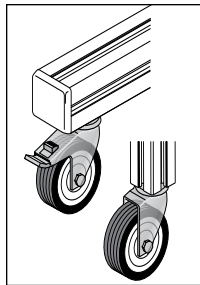
Threaded Sleeve for Leveling Feet
7-6



Leveling Foot Plates
7-6



End Caps with Hole
7-7



Heavy-Duty Casters
7-8

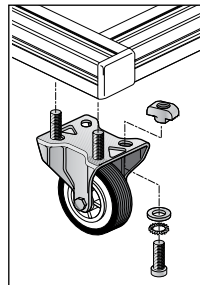
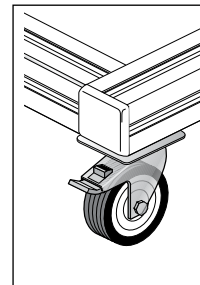
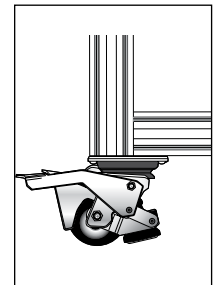


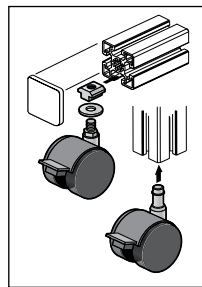
Plate-Mounted Casters
7-9



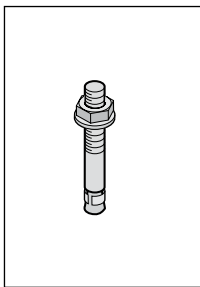
Heavy Duty Casters with Mounting Plate
7-10



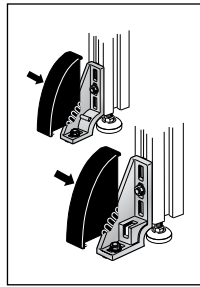
Caster Lifting Wheel
7-11



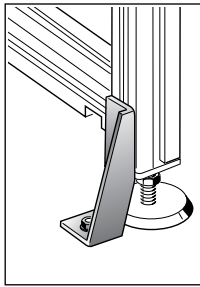
Double-Wheel Casters
7-12



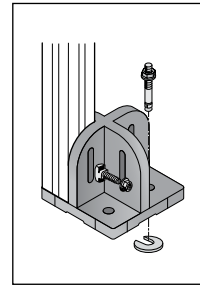
Anchor Bolts
7-13



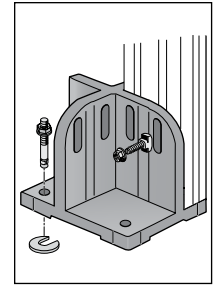
Die-Cast Foundation Brackets
7-13



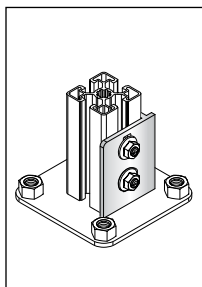
Foundation Brackets
7-14



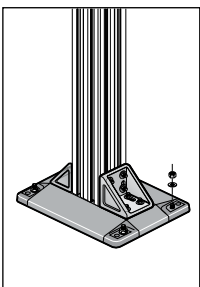
Footplate 120x120x110
7-15



Footplate 150x150x120
7-16



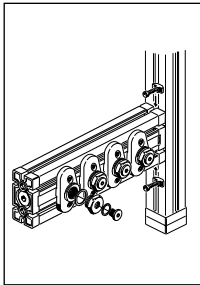
Steel Base Plates
7-17



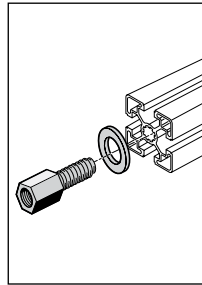
Base Plates
7-18

Section 1: Introduction

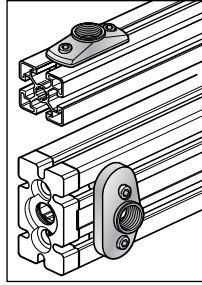
Section 8 Air Supply Elements



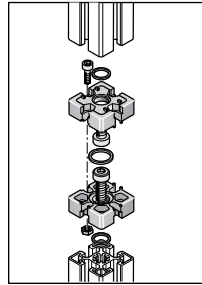
Pre-Assembled Air Bar
8-1



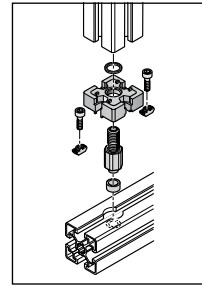
Pneumatic Fitting M12-to-G
8-1



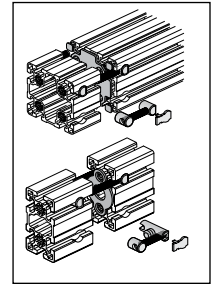
G & G^{3/8} Pneumatic Port Kits
8-2



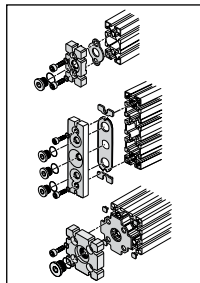
45mm Pneumatic End-to-End Kit
8-3



45mm Pneumatic T-Junction Kit
8-3

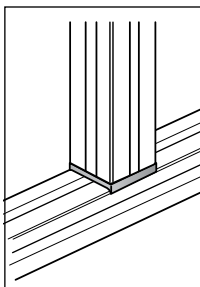


Air Gaskets
8-4

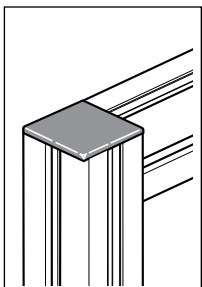


Multi-Port End Seal Kits
8-5

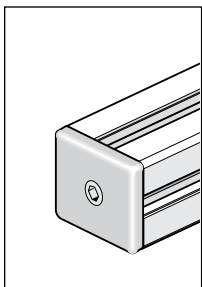
Section 9 Caps and Finishing Elements



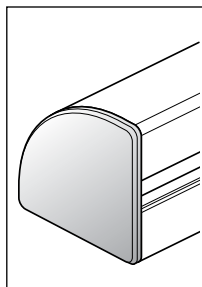
Radius Compensators
9-1



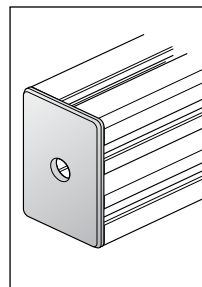
Square & Rectangular End Caps
9-2 & 9-3



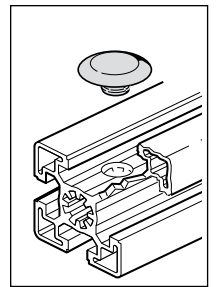
Heavy-Duty End Caps
9-3



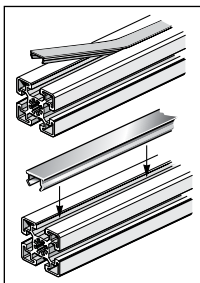
Radius & Specialty End Caps
9-4



End Caps with Holes
9-5



Access Hole Covers
9-5

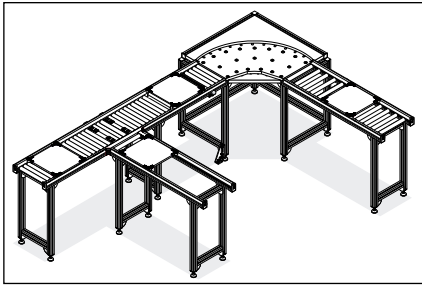


T-Slot Covers
9-6

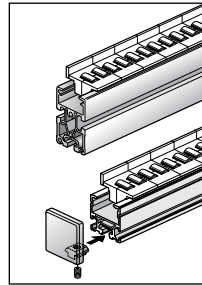
Section 1: Introduction

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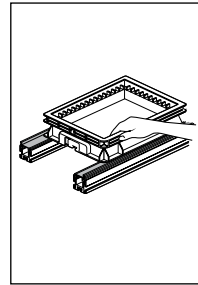
Section 10 EcoFlow™ Conveyor and Transport Components



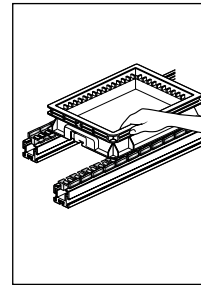
EcoFlow
Conveyor Components
10-2 to 10-12



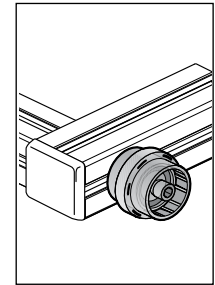
Roller Profiles
45x30RP,
45x45RP,
45x50RP, &
45x75SP2/B
10-13



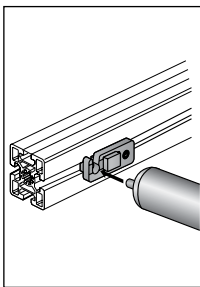
FP2/B Guide
Profile
10-14



Roller Elements
10-15



Support Rollers
10-16



Track Roller
Mounting Blocks
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Section 11 Ergonomic Workplace Equipment

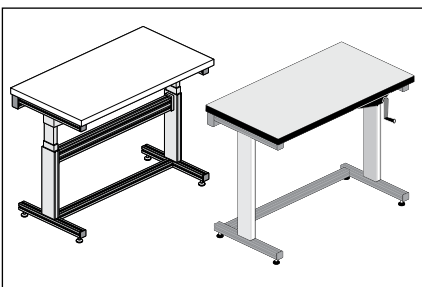
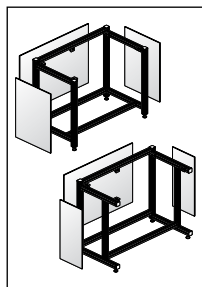
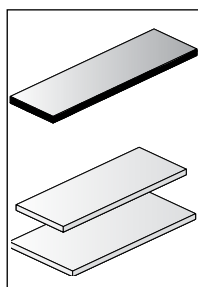


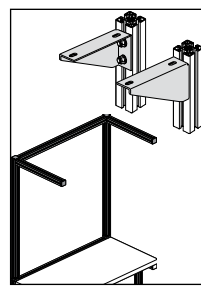
Table Frames and Adjustable Height
Manually Operated Components
11-4 & 11-6



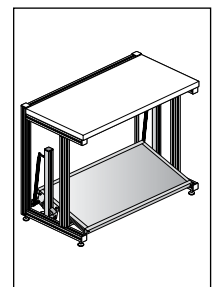
Side Panel Kits
11-6



Tabletops
11-7

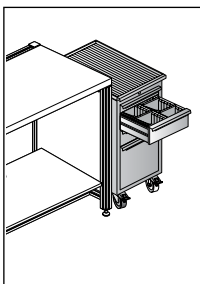


Extension Struts,
Posts, Uprights &
Shelf Brackets
11-8 & 11-9

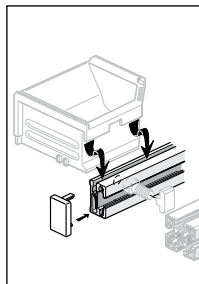


Footrests
11-10

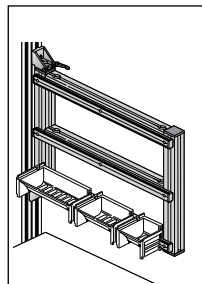
Storage and Grab Containers



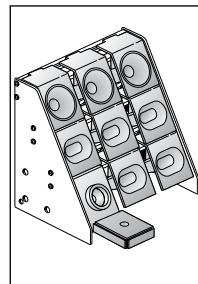
Drawer Cabinets
11-11



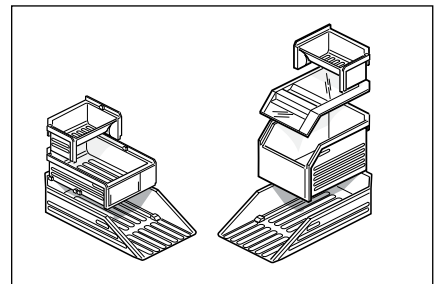
Hanging Profile
11-12



Support Frame
11-12



Tool/Bin Rack
& Tool Holders
11-13

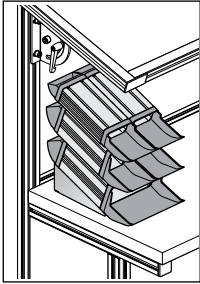


Grab Containers, Trays,
Ledges,
& Accessories
11-14 to 11-16

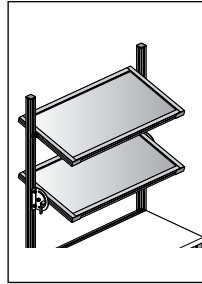
Section 1: Introduction

Section 11 Ergonomic Workplace Equipment

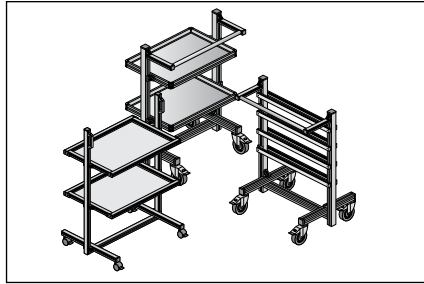
Tool and Material Shuttles



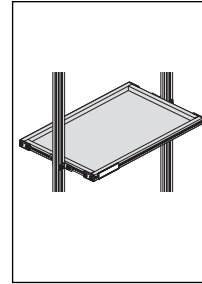
VarioGrab Containers
11-17



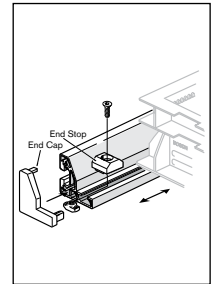
Adjustable Shelves
11-18



Tool/Material Shuttles & Components
11-19 to 11-22

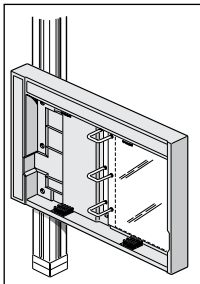


Lettering Clips
11-23

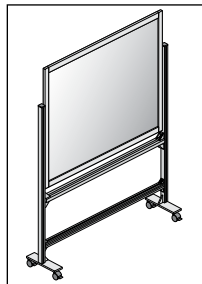


45x45T Tray Profile
11-23

Information Presentation

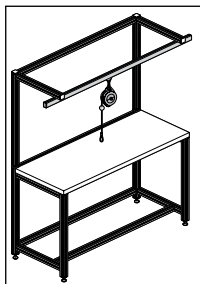


Information Board
11-24

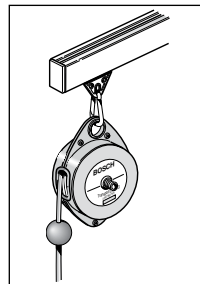


Wall Boards & Bulletin Boards
11-24 & 11-25

Tool Management

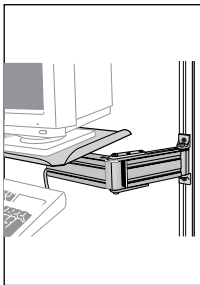


Tool Rail Kits & Components
11-26



Tool Balancers
11-27

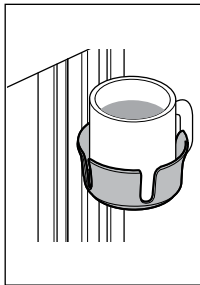
Comfort and Convenience Accessories



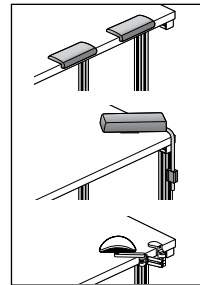
Monitor Arm Kit
11-28



Flat Panel Monitor Arm Bracket
11-28



Cup, Bottle & Cloth Holders
11-29



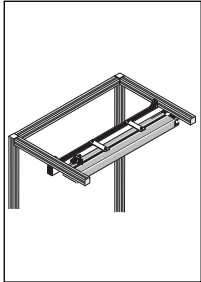
Armrests
11-30

Section 1: Introduction

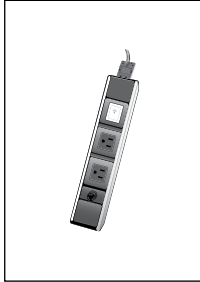
Section 11 Ergonomic Workplace Equipment

1

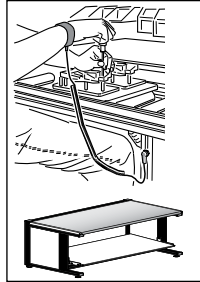
Electrical and ESD Components



Overhead Lamp with Electronic Ballast 11-31

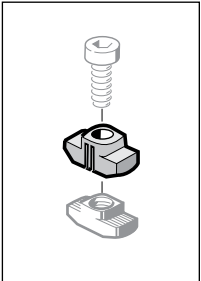


Power Strips 11-32

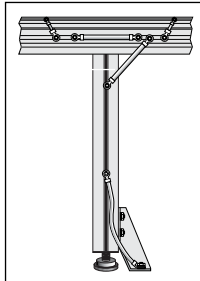


ESD Grounding Strap & Protective Mat 11-33

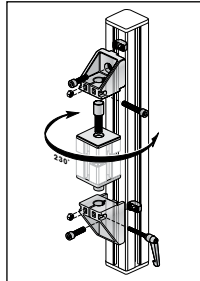
Other Workstation Components



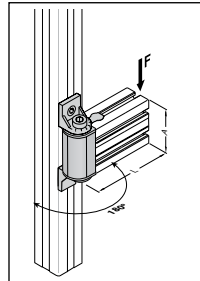
Isolation Cap for 8mm T-Nuts 11-34



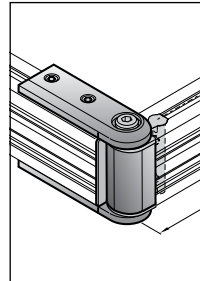
ESD Grounding Strap 11-34



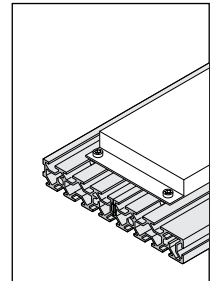
Swivel Hanger Kit 11-35



Pivot Joint Kit 11-36

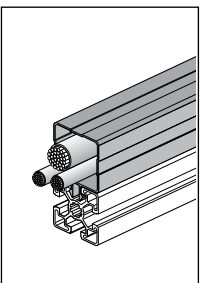


Swivel Arm Joint Kits 11-37

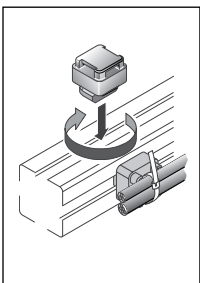


Fixture Plate Components 11-38

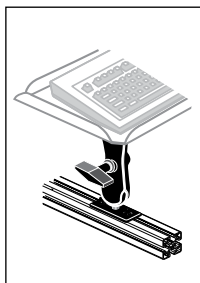
Section 12 Accessories



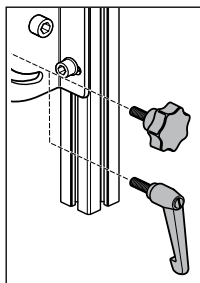
Cable Conduit & End Cap 12-1



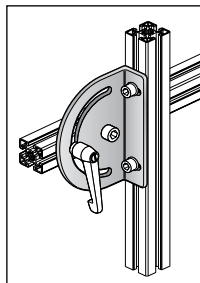
Cable Carrier 12-2



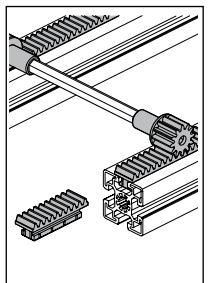
R-A-M Mount 12-2



Star Knobs & Locking Levers 12-3



Swivel Bracket Kit 12-4



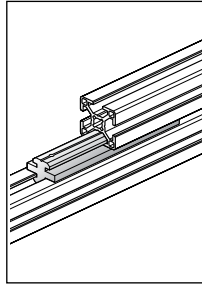
Rack & Pinion 12-5

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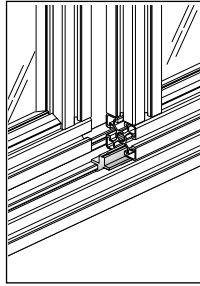
Section 13 EcoSlides™ Linear Sliding Carriages and Bearings



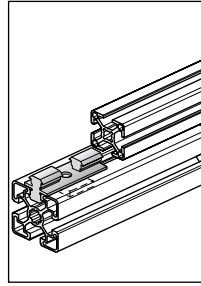
Linear Motion
Selection Guide
13-0



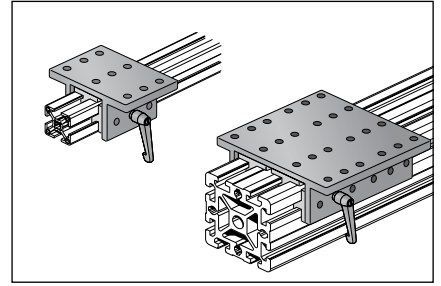
6mm & 8mm
Slide Bearings
13-2



10mm
Slide Bearings
13-3

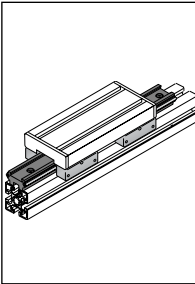


Profile Slider
13-4

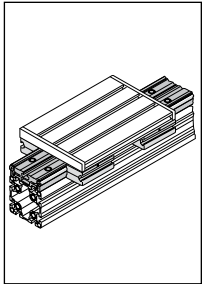


EcoSlides™
13-5 to 13-9

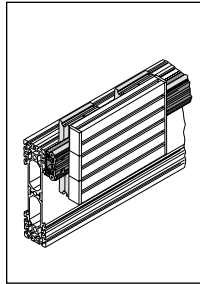
Section 14 Dynamic Linear Elements



LF6S & LF6C
14-4 to 14-11



LF12S & LF12C
14-12 to 14-19



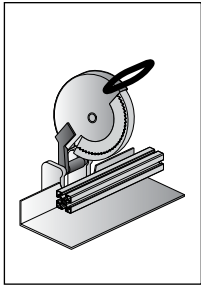
LF20S & LF20C
14-20 to 14-27

Section 1: Introduction

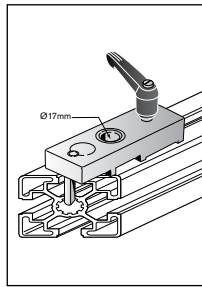
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Section 15 Tools

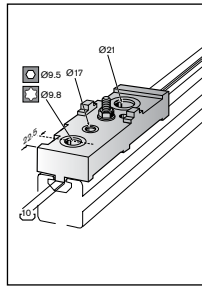
Drill Bits and Jigs



Working with Aluminum Profiles
15-1

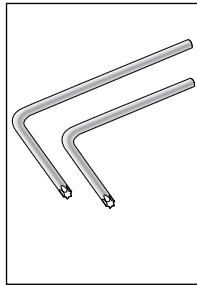


Miter Drilling Jigs
15-2



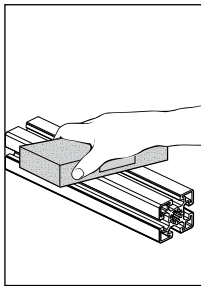
6mm, 8mm, & 10mm Drill & Boring Jigs
15-3 & 15-5

Wrenches

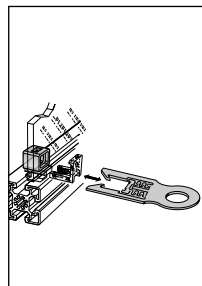


Torx Wrenches
15-6

Other Tools



Cleaning Block
15-7

























VarioFix Puller
15-7

Section 16 Technical Specifications





























Section 17 Part Number Index and Reference Charts

Section 2: Profiles

Technical Specifications

























												
		20x20	20x20 1S	20x20 2S	20x20 3S	20x20 2SA	20x20R	20x40	20x40 x40	20x60	30x30	30x30 1S
Moment of inertia	I_x [cm ⁴] (in ⁴)	0.67 (0.016)	0.84 (0.020)	0.84 (0.020)	0.74 (0.018)	0.70 (0.017)	0.58 (0.014)	4.62 (0.111)	6.0 (0.144)	14.20 (0.341)	2.75 (0.066)	3.12 (0.075)
	I_y [cm ⁴] (in ⁴)	0.67 (0.016)	0.76 (0.018)	0.68 (0.016)	0.67 (0.016)	0.70 (0.017)	0.58 (0.014)	1.20 (0.029)	6.0 (0.144)	1.70 (0.041)	2.75 (0.066)	3.48 (0.083)
Section modulus	W_x [cm ³] (in ³)	0.67 (0.041)	0.84 (0.051)	0.84 (0.051)	0.90 (0.055)	0.90 (0.055)	0.60 (0.037)	2.50 (0.153)	2.60 (0.159)	4.70 (0.288)	1.83 (0.112)	2.20 (0.134)
	W_y [cm ³] (in ³)	0.67 (0.041)	0.76 (0.046)	0.68 (0.041)	0.80 (0.049)	0.90 (0.055)	0.60 (0.037)	1.40 (0.086)	2.60 (0.159)	1.70 (0.104)	1.83 (0.112)	2.60 (0.159)
Profile surface	A [cm ²] (in ²)	1.60 (0.248)	1.92 (0.298)	1.83 (0.284)	1.70 (0.264)	1.80 (0.279)	1.60 (0.248)	2.90 (0.450)	4.14 (0.642)	3.48 (0.539)	3.10 (0.481)	3.70 (0.574)
Weight (Mass)	m [kg/m] (lbs/ft)	0.40 (0.269)	0.52 (0.349)	0.49 (0.329)	0.40 (0.269)	0.50 (0.336)	0.40 (0.269)	0.80 (0.538)	1.10 (0.740)	0.90 (0.605)	0.80 (0.538)	1.00 (0.672)
T-slot	[mm]											
Page		2-10	2-10	2-11	2-11	2-11	2-12	2-12	2-13	2-13	2-14	2-15

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













													
30x30 2S	30x30 2SA	30x30 3S	30x30R	30x30°R	30x45°R	30x60°R	30x45	30x60	30x60 4S	30x60 x60	60x60 8S	40x40	40x40 1S
2.78 (0.067)	3.11 (0.075)	3.10 (0.074)	2.28 (0.055)	3.50 (0.084)	3.60 (0.087)	3.00 (0.072)	8.04 (0.193)	19.68 (0.473)	20.20 (0.485)	26.10 (0.627)	39.67 (0.952)	9.00 (0.219)	9.00 (0.219)
3.47 (0.083)	3.11 (0.075)	2.77 (0.067)	2.28 (0.055)	3.60 (0.087)	5.10 (0.123)	4.10 (0.099)	3.82 (0.092)	5.06 (0.122)	5.52 (0.132)	26.10 (0.627)	39.67 (0.952)	9.00 (0.219)	9.00 (0.219)
2.10 (0.128)	2.20 (0.134)	2.20 (0.134)	1.60 (0.098)	2.00 (0.123)	2.10 (0.129)	1.70 (0.104)	3.90 (0.239)	7.00 (0.429)	6.37 (0.411)	7.50 (0.459)	13.22 (0.807)	4.5 (0.275)	4.5 (0.275)
2.60 (0.159)	2.50 (0.153)	2.10 (0.128)	1.60 (0.098)	1.90 (0.116)	2.30 (0.141)	1.90 (0.116)	2.80 (0.172)	3.90 (0.239)	3.84 (0.234)	7.50 (0.459)	13.22 (0.807)	4.5 (0.275)	4.5 (0.275)
3.50 (0.543)	3.50 (0.543)	3.30 (0.512)	2.80 (0.434)	3.60 (0.558)	4.00 (0.620)	3.60 (0.558)	3.90 (0.605)	5.60 (0.868)	5.75 (0.891)	8.20 (1.271)	9.79 (1.517)	5.60 (0.776)	5.60 (0.776)
0.90 (0.605)	0.90 (0.605)	0.90 (0.605)	0.70 (0.471)	1.00 (0.673)	1.00 (0.673)	1.00 (0.673)	1.10 (0.740)	1.50 (1.009)	1.55 (1.042)	2.20 (1.480)	2.64 (1.774)	1.50 (1.008)	1.50 (1.008)
													
2-15	2-15	2-16	2-16	2-16	2-17	2-17	2-17	2-18	2-18	2-19	2-19	2-20	2-21

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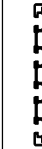
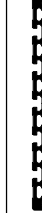


















													
		40x40 2S	40x40 2SA	40x40 3S	40x 40R	40x40 HR	40x80	40x80 3SA	40x80 4S	40x80 x80	40x 120	40x 160	45x45
Moment of inertia	I_x [cm ⁴] (in ⁴)	10.34 (0.248)	9.71 (0.233)	9.07 (0.218)	7.20 (0.175)	8.10 (0.194)	63.40 (1.522)	67.81 (1.627)	65.17 (1.564)	96.60 (2.319)	203.20 (4.877)	466.70 (11.219)	11.00 (0.264)
	I_y [cm ⁴] (in ⁴)	9.08 (0.218)	9.71 (0.233)	9.70 (0.233)	7.20 (0.175)	7.60 (0.182)	17.30 (0.417)	18.99 (0.456)	19.05 (0.457)	96.60 (2.319)	27.80 (0.667)	37.20 (0.887)	11.00 (0.264)
Section modulus	W_x [cm ³] (in ³)	5.17 (0.315)	4.85 (0.295)	4.53 (0.276)	3.60 (0.219)	4.00 (0.243)	15.90 (0.974)	16.95 (1.034)	16.29 (0.994)	24.10 (1.469)	33.90 (2.075)	58.30 (3.551)	4.89 (0.298)
	W_y [cm ³] (in ³)	4.54 (0.277)	4.85 (0.295)	4.85 (0.235)	3.60 (0.219)	3.60 (0.219)	8.70 (0.532)	9.50 (0.580)	9.91 (0.605)	24.10 (1.469)	13.90 (0.851)	18.60 (1.137)	4.89 (0.298)
Profile surface	A [cm ²] (in ²)	5.96 (0.924)	5.36 (0.924)	5.79 (0.897)	5.00 (0.776)	5.50 (0.853)	9.90 (1.533)	10.56 (1.637)	10.39 (1.610)	15.40 (2.388)	15.50 (2.405)	20.50 (3.180)	5.70 (0.884)
Weight (Mass)	m [kg/m] (lbs/ft)	1.61 (1.083)	1.61 (1.083)	1.56 (1.050)	1.30 (0.873)	1.50 (1.009)	2.70 (1.815)	2.85 (1.918)	2.80 (1.882)	4.10 (2.757)	4.20 (2.824)	5.50 (3.696)	1.50 (1.009)
T-slot	[mm]												
Page		2-21	2-21	2-22	2-22	2-23	2-23	2-24	2-24	2-24	2-25	2-25	2-26

Section 2: Profiles



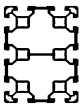
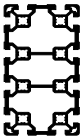





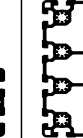

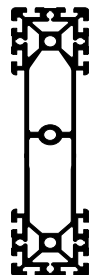












													
45x45H	45x45 1S	45x45 2S	45x45 2SA	45x45 3S	50x50T	45x45R	45x45HR	45x30°R	45x45°R	45x60°R	45x60H	45x90	45x90SL
13.83 (0.332)	11.75 (0.282)	11.54 (0.277)	11.80 (0.283)	11.79 (0.283)	15.14 (0.364)	8.56 (0.204)	11.02 (0.264)	12.70 (0.305)	13.40 (0.322)	11.40 (0.274)	37.20 (0.894)	81.84 (1.967)	73.36 (1.761)
13.83 (0.332)	12.06 (0.290)	11.38 (0.273)	11.80 (0.283)	11.68 (0.281)	15.16 (0.364)	8.56 (0.204)	10.73 (0.258)	15.20 (0.365)	21.40 (0.514)	17.00 (0.409)	22.67 (0.545)	23.40 (0.562)	18.09 (0.434)
6.15 (0.375)	5.20 (0.317)	5.10 (0.311)	5.20 (0.317)	5.20 (0.317)	6.70 (0.410)	5.00 (0.306)	4.40 (0.270)	5.00 (0.306)	5.20 (0.319)	4.40 (0.270)	12.40 (0.757)	18.18 (1.109)	16.30 (0.994)
6.15 (0.375)	5.30 (0.323)	5.00 (0.305)	5.20 (0.317)	5.20 (0.317)	7.70 (0.471)	5.00 (0.306)	4.70 (0.288)	5.30 (0.325)	6.40 (0.392)	5.20 (0.319)	10.08 (0.615)	10.40 (0.635)	8.04 (0.490)
7.50 (1.163)	5.90 (0.915)	5.80 (0.899)	5.90 (0.915)	5.90 (0.915)	4.60 (0.698)	4.90 (0.760)	6.60 (1.023)	6.90 (1.070)	7.60 (1.178)	6.80 (1.054)	11.00 (1.705)	11.20 (1.736)	9.04 (1.401)
2.00 (1.345)	1.60 (1.075)	1.60 (1.075)	1.60 (1.075)	1.60 (1.075)	1.20 (0.807)	1.30 (0.874)	1.80 (1.211)	1.80 (1.211)	2.00 (1.343)	1.80 (1.211)	2.90 (1.950)	3.00 (2.018)	2.44 (1.642)
													
2-27	2-27	2-28	2-28	2-29	2-29	2-30	2-30	2-31	2-31	2-31	2-32	2-33	2-34

Section 2: Profiles

Technical Specifications


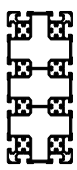
























													
		45x90 2S	45x90 3VS	45x90H	45x90 x90	45x180 H	45x270 H	50x50	50x100	50x150	60x60	60x60H	60x90H
Moment of inertia	I_x [cm ⁴] (in ⁴)	85.61 (2.055)	87.20 (2.093)	124.62 (2.995)	151.13 (3.631)	766.67 (18.423)	3962.00 (95.207)	21.20 (0.512)	162.80 (3.924)	540.00 (12.979)	32.41 (0.779)	52.20 (1.254)	212.44 (5.105)
	I_y [cm ⁴] (in ⁴)	26.89 (0.645)	25.21 (0.605)	32.76 (0.787)	151.13 (3.631)	57.28 (1.376)	118.00 (2.836)	21.20 (0.512)	42.60 (1.019)	64.20 (1.543)	32.41 (0.779)	52.20 (1.254)	88.53 (2.127)
Section modulus	W_x [cm ³] (in ³)	38.05 (2.32)	38.80 (2.367)	27.69 (1.690)	29.10 (1.776)	85.19 (5.199)	300.20 (18.387)	8.50 (0.524)	32.60 (1.987)	72.00 (4.393)	10.80 (0.659)	17.40 (1.062)	47.21 (2.881)
	W_y [cm ³] (in ³)	5.98 (0.365)	5.60 (0.342)	14.56 (0.889)	29.10 (1.776)	25.46 (1.554)	61.50 (3.767)	8.50 (0.524)	17.00 (1.040)	25.70 (1.568)	10.80 (0.659)	17.40 (1.062)	29.51 (1.801)
Profile surface	A [cm ²] (in ²)	12.00 (1.86)	11.82 (1.832)	15.37 (2.382)	21.00 (3.255)	25.50 (3.953)	61.80 (9.579)	9.30 (1.442)	17.20 (2.668)	25.50 (3.952)	9.60 (1.488)	14.39 (2.230)	25.30 (3.922)
Weight (Mass)	m [kg/m] (lbs/ft)	3.24 (0.022)	3.2 (2.154)	4.15 (2.791)	5.67 (3.810)	6.90 (4.640)	16.70 (11.231)	2.50 (1.681)	4.60 (3.092)	6.90 (4.641)	2.60 (1.749)	3.89 (2.616)	6.80 (4.573)
T-slot	[mm]												
Page		2-34	2-35	2-36	2-37	2-38	2-39	2-40	2-41	2-42	2-43	2-44	2-45

Section 2: Profiles

											
80x80	80x80 6S	80x120	80x160	90x90 SL	90x90 4S	90x90 4VS	90x90	90x90H	90x180	90x180H	90x360H
132.10 (3.174)	140.90 (3.382)	389.30 (9.388)	850.80 (20.518)	130.24 (3.13)	227.4 (5.464)	220.86 (5.307)	211.10 (5.073)	299.80 (7.204)	1380.00 (33.161)	2138.30 (51.383)	14065.00 (337.982)
132.10 (3.174)	134.10 (3.218)	192.80 (4.649)	253.40 (6.111)	130.24 (3.13)	214.69 (5.159)	220.86 (5.307)	211.10 (5.073)	299.80 (7.204)	401.00 (9.636)	544.30 (13.080)	710.00 (17.061)
33.00 (2.020)	36.20 (2.209)	64.80 (3.947)	106.40 (6.481)	28.94 (1.766)	50.53 (3.084)	49.08 (2.995)	46.91 (2.863)	66.62 (4.065)	153.33 (9.357)	237.59 (14.499)	781.00 (46.869)
33.00 (2.020)	33.50 (2.044)	48.20 (2.950)	63.40 (3.880)	28.94 (1.766)	47.71 (2.911)	49.08 (2.995)	46.91 (2.863)	66.62 (4.065)	89.11 (5.438)	120.96 (7.381)	157.00 (9.616)
18.20 (2.824)	18.76 (2.908)	25.50 (3.956)	32.90 (5.104)	14.11 (2.187)	24.15 (3.743)	24.15 (3.743)	23.50 (3.643)	39.43 (6.112)	42.90 (6.650)	63.60 (9.858)	95.00 (14.725)
4.90 (3.295)	5.06 (3.400)	6.90 (5.983)	8.90 (5.983)	3.81 (2.560)	6.52 (4.381)	6.52 (4.381)	6.30 (4.237)	10.37 (6.974)	11.60 (7.801)	17.20 (11.567)	24.40 (16.409)
											
2-46	2-47	2-47	2-48	2-49	2-50	2-51	2-50	2-51	2-52	2-53	2-54





























Section 2: Profiles

Technical Specifications

														
		100x100	100X200	11x20	15x22.5	15x120	15x180	22.5x45	22.5x180	C30x45	30x30 WG30	30x45 WG30	30x30 WG40	30x45 WG40
Moment of inertia	I_x [cm ⁴] (in ⁴)	318.30 (7.639)	2133.10 (51.442)	0.52 (0.012)	0.81 (0.019)	110.4 (2.650)	303.50 (7.284)	711 (0.171)	581.01 (13.961)	10.33 (0.248)	2.57 (0.062)	7.00 (0.168)	2.48 (0.060)	6.98 (0.168)
	I_y [cm ⁴] (in ⁴)	318.30 (7.639)	602.10 (14.520)	0.13 (0.002)	0.34 (0.008)	2.16 (0.052)	3.14 (0.075)	2.91 (0.070)	11.80 (0.284)	5.60 (0.135)	3.01 (0.072)	4.25 (0.102)	2.92 (0.070)	4.11 (0.099)
Section modulus	W_x [cm ³] (in ³)	63.70 (3.896)	213.30 (12.992)	0.70 (0.043)	0.90 (0.055)	18.4 (11.224)	n.a.	3.16 (0.193)	64.56 (3.939)	4.23 (0.258)	1.64 (0.100)	4.30 (0.262)	1.57 (0.096)	4.33 (0.265)
	W_y [cm ³] (in ³)	63.70 (3.896)	120.40 (7.368)	0.30 (0.018)	0.60 (0.037)	2.74 (0.167)	n.a.	2.59 (0.158)	10.47 (0.639)	3.73 (0.228)	1.92 (0.118)	1.80 (0.110)	1.83 (0.112)	1.82 (0.111)
Profile surface	A [cm ²] (in ²)	29.90 (4.637)	54.00 (8.377)	1.00 (0.155)	1.20 (0.186)	9.00 (1.395)	11.64 (1.804)	4.60 (0.713)	21.60 (3.348)	4.38 (0.679)	3.19 (0.494)	4.52 (0.701)	3.16 (0.490)	4.49 (0.696)
Weight (Mass)	m [kg/m] (lbs/ft)	8.10 (5.449)	14.60 (9.815)	0.30 (0.202)	0.30 (0.202)	2.43 (1.635)	3.14 (2.113)	1.30 (0.874)	5.80 (3.901)	1.23 (0.827)	0.86 (0.579)	1.22 (0.820)	0.85 (0.574)	1.21 (0.814)
T-slot	[mm]													
Page		2-55	2-56	2-57	2-58	2-57	2-57	2-58	2-59	5-6 - 11-28	6-11	6-11	6-12	6-12

* Specialty profile. Not designed for structural support.

Section 2: Profiles

													
22.5x30F	EcoFlow Roller Profile	45x30 RP	45x45 RP	45x50 RP	45x75 SP2/B	15x30	45x45T	30x100 End	30x100 Center	LF6S	26x90	LF12S	LF20S
1.68 (0.040)	12.50 (0.300)	4.50 (0.108)	9.60 (0.231)	15.20 (0.365)	49.50 (1.189)	2.51 (0.060)	8.85 (0.213)	90.30 (2.170)	88.80 (2.134)	1.16 (0.028)	4.59 (0.110)	9.45 (0.227)	31.85 (0.765)
2.97 (0.071)	10.70 (0.257)	11.90 (0.286)	13.30 (0.320)	16.90 (0.406)	25.80 (0.620)	2.04 (0.049)	6.95 (0.167)	9.65 (0.232)	9.20 (0.221)	5.88 (0.141)	68.07 (1.636)	75.92 (1.824)	107.93 (2.594)
1.49 (0.091)	4.50 (0.276)	n. a.	3.80 (0.233)	5.30 (0.325)	12.10 (0.741)	*	3.18 (0.195)	18.00 (1.103)	17.80 (1.090)	1.08 (0.066)	3.65 (0.224)	7.02 (0.430)	23.95 (1.467)
1.98 (0.121)	4.50 (0.276)	n. a.	6.50 (0.398)	7.50 (0.459)	11.50 (0.704)	*	2.32 (0.142)	6.40 (0.392)	6.00 (0.368)	2.94 (0.180)	15.13 (0.927)	19.53 (1.196)	35.98 (2.204)
3.20 (0.496)	6.40 (0.992)	5.30 (0.822)	5.40 (0.837)	6.90 (1.070)	10.40 (1.612)	2.01 (0.312)	4.47 (0.693)	9.68 (1.500)	9.73 (1.508)	5.10 (0.791)	8.00 (1.240)	12.90 (2.000)	16.60 (2.573)
0.86 (0.579)	1.70 (1.143)	1.40 (0.942)	1.50 (1.009)	1.90 (1.278)	2.80 (1.883)	*	1.20 (0.807)	2.61 (1.755)	2.63 (1.769)	1.70 (1.143)	2.20 (1.480)	3.50 (2.354)	4.50 (3.026)
													
6-18	10-5	10-13	10-13	10-13	10-13	11-12	11-25	11-40	11-40	14-5 - 14-11	14-5 - 14-9	14-12 - 14-19	14-20 - 14-29

* Specialty profile. Not designed for structural support.

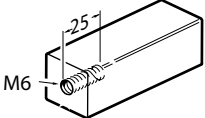
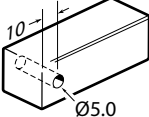
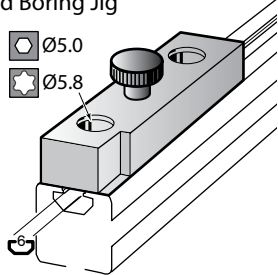
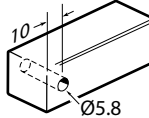
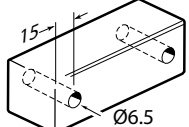
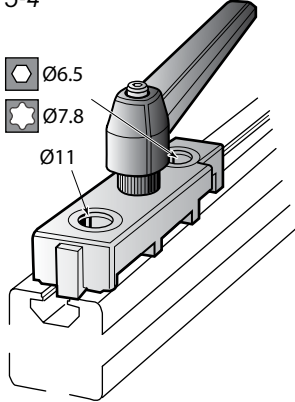
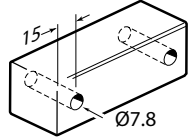
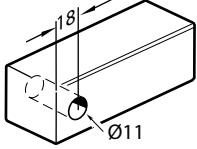
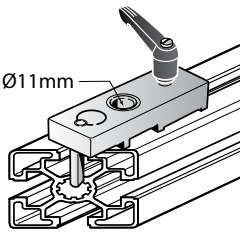
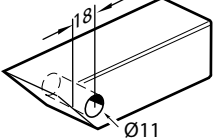
Section 2: Profiles

Rexroth offers a variety of end machining options for profiles, such as center bores tapped for a specific thread size, or through holes for use with bolt connectors. Most profiles have part numbers assigned for the popular machining options—just select the part number and state the desired length in millimeters.

However, sometimes situations arise where you need a piece of profile with a through-hole or end tap, and you need it right away. Or you want the flexibility of keeping profiles on hand that you can cut to length and machine as the need arises. For situations like that, Rexroth offers a selection of thread taps, drill bits, and drilling

jigs specifically designed for common machining options.

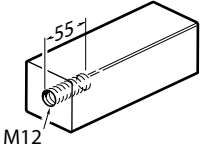

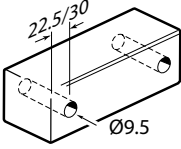
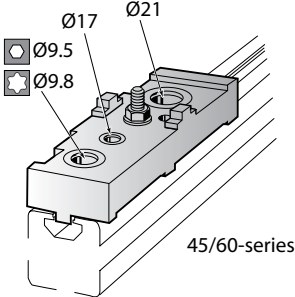
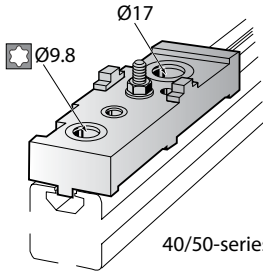

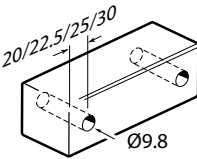
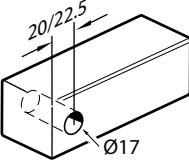
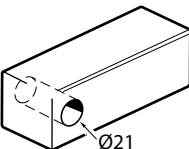
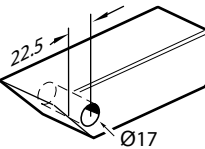
The following charts show popular end machining options, common applications, and the tools from Section 16 used to create them. Refer to the profile end machining options chart on the inside back cover fold-out for additional information.

	For Machine End Finish...	to Use Connector or Accessory,	Use Rexroth Specialty Tool:
6mm T-Slot	Tapped 6mm 	M6 Leveling Foot	Use a standard 6mm tap
	Drilled: 5.0 mm through-hole 	5.0 mm diameter access hole for S6 x 16 self-tapping connection screw at end of profile for right-angle connections, or anywhere along the T-slot for T-connections.	6mm Drill and Boring Jig Page 15-3 
	Drilled: 5.8 mm through-hole 	5.8 mm diameter access hole for S6 x 16 Torx-head self-tapping connection screw at end of profile for right-angle connections, or anywhere along the T-slot for T-connections	
8mm T-Slot	Drilled: 6.5 mm through-hole 	6.5 mm diameter access hole for S8 x 25 self-tapping connection screw at end of profile for right-angle connections, or anywhere along the T-slot for T-connections.	8mm Drill and Boring Jig Page 15-4 
	Drilled: 7.8 mm through-hole 	7.8 mm diameter access hole for S8 x 25 Torx-head self-tapping connection screw at end of profile for right-angle connections, or anywhere along the T-slot for T-connections.	
	Drilled: 11 mm through-hole 	<ul style="list-style-type: none"> • 30mm Bolt Connector Kit • 30mm Quick Connector/Rigid • 30x30 Multi-Angle Connector 	8mm Miter Drilling Jig Page 15-2 
	Drilled: 11 mm through-hole on 45° mitered profile 	<ul style="list-style-type: none"> • 30mm End-to-End Variable Angle Bolt Connector • 30mm End-to-Side Variable Angle Bolt Connector 	

Section 2: Profiles

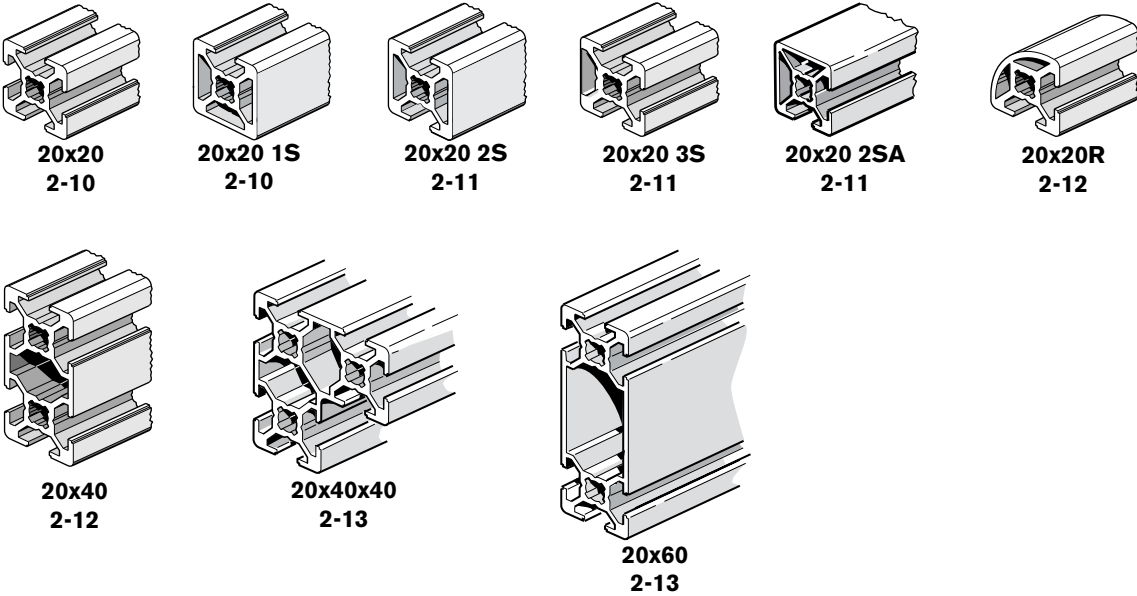
2

10mm T-Slot

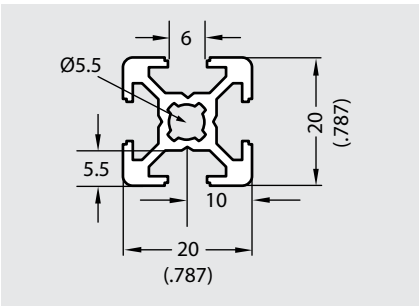
For Machine End Finish...	to Use Connector or Accessory,	Use Rexroth Specialty Tool:
Tapped 12mm 	<ul style="list-style-type: none"> • M12 Connection Screw • M12 Leveling Foot • 45mm Junction Connector • 45x45 Multi-Angle Connector • Heavy-Duty Caster • Pneumatic Fitting 	Use a standard 12mm tap
 Drilled: 9.5 mm through-hole 	9.5 mm diameter access hole for 45-/60-series profiles, for use with connection screws and other connectors and accessories.	10mm Drill and Boring Jigs Page 15-4 & 15-5  45/60-series  40/50-series
 Drilled: 9.8 mm through-hole 	9.8 mm diameter access hole for 45-/60-series or 40-/50-series profiles, for use with connection screws and other connectors and accessories.	
Drilled: 17 mm through-hole 	<ul style="list-style-type: none"> • Bolt Connector Kit • End-to-End Connector Kit • Multi-Angle Connector • Quick Connector/Rigid • Variable Angle Bolt Connector • Threaded Sleeve • 45° Angle Connector Kit 	
Drilled: 21 mm through-hole 	<ul style="list-style-type: none"> • Pneumatic Port 	
Drilled: 17 mm through-hole on 45° mitered profile 	<ul style="list-style-type: none"> • End-to-End Variable Angle Bolt Connectors • End-to-Side Variable Angle Bolt Connectors 	

Section 2: Profiles

20-Series Profiles



20x20 **GoTo**



Features:

- Ideal for light-duty construction
- Has four 6mm T-slots

Non-Machined End Finish Options

	Part Number
Profile 20x20, pkg. of 20, 3000mm long	3 842 517 179 GoTo
Profile 20x20, single, 3000mm long	3 842 517 173 GoTo

Machined Options

Profile 20x20, -/-, specify length $\geq 30\text{mm} \leq 3000\text{mm}$

End Finish

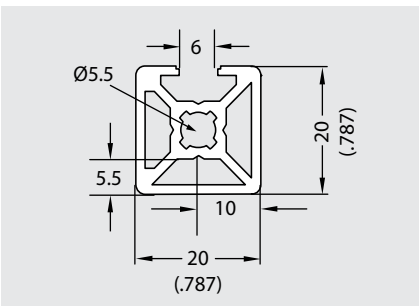


Part Number

3 842 992 888/ __mm

Please contact your distributor for other machining options.

20x20 1S **Clean Room**



Features:

- Ideal for light-duty construction
- Closed T-slot adds neat, finished appearance

Non-Machined End Finish Options

	Part Number
Profile 20x20 1S, pkg. of 20, 3000mm long	3 842 536 475
Profile 20x20 1S, single, 3000mm long	3 842 536 476

Machined Options

Profile 20x20 1S, -/-, specify length $\geq 30\text{mm} \leq 3000\text{mm}$

End Finish



Part Number

3 842 993 421/ __mm


Please contact your distributor for other machining options.

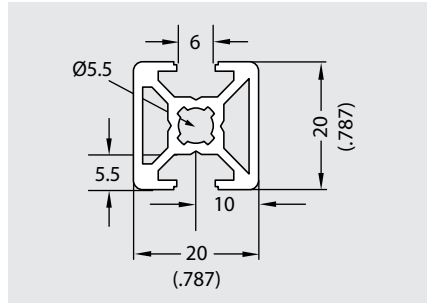
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Section 2: Profiles

2

20x20 2S 




Features:

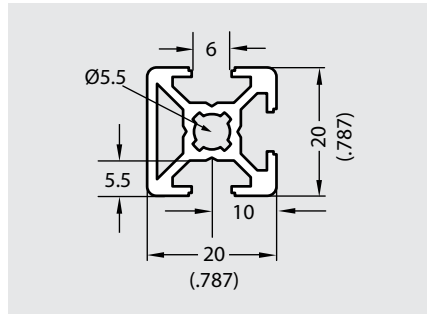
- Ideal for light-duty construction
- Has two 6mm T-slots

Non-Machined End Finish Options	Part Number
Profile 20x20 2S, pkg. of 20, 3000mm long	3 842 536 478
Profile 20x20 2S, single, 3000mm long	3 842 536 479

Machined Options	End Finish	Part Number
Profile 20x20 2S, -/-, specify length $\geq 30\text{mm} \leq 3000\text{mm}$	<input type="checkbox"/>	3 842 993 422/ __mm

Please contact your distributor for other machining options.

20x20 3S 



Features:

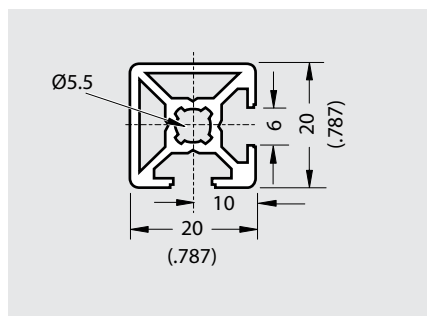
- Ideal for light-duty construction
- Closed T-slot adds neat, finished appearance
- Has three 6mm T-slots

Non-Machined End Finish Options	Part Number
Profile 20x20 3S, pkg. of 20, 3000mm long	3 842 517 180
Profile 20x20 3S, single, 3000mm long	3 842 517 174

Machined Options	End Finish	Part Number
Profile 20x20 3S, -/-, specify length $\geq 30\text{mm} \leq 3000\text{mm}$	<input type="checkbox"/>	3 842 992 889/ __mm

Please contact your distributor for other machining options.

20x20 2SA 



Features:

- Ideal for light-duty construction
- Closed T-slots add neat, finished appearance
- Has two adjacent 6mm T-slots


Non-Machined End Finish Options	Part Number
Profile 20x20 2SA, pkg. of 20, 3000mm long	3 842 519 658
Profile 20x20 2SA, single, 3000mm long	3 842 519 657

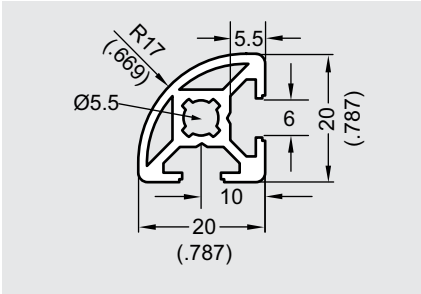
Machined Options	End Finish	Part Number
Profile 20x20 2SA, -/-, specify length $\geq 30\text{mm} \leq 3000\text{mm}$	<input type="checkbox"/>	3 842 992 924/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

20-Series Profiles


20x20R  



Features:

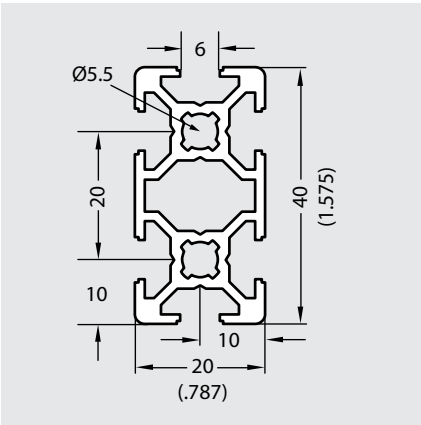
- Ideal for light-duty construction
- Radius corner adds neat, finished appearance
- Has two adjacent 6mm T-slots

Non-Machined End Finish Options	Part Number
Profile 20x20R, pkg. of 20, 3000mm long	3 842 517 183
Profile 20x20R, single, 3000mm long	3 842 517 177

Machined Options	End Finish	Part Number
Profile 20x20R, -/-, specify length $\geq 30\text{mm} \leq 3000\text{mm}$		3 842 992 890/ __mm

Please contact your distributor for other machining options.


20x40 



Features:

- Increased load-carrying capacity, ideal for shelving, tables, and safety guards
- Has six 6mm T-slots


Non-Machined End Finish Options	Part Number
Profile 20x40, pkg. of 24, 3000mm long	3 842 537 816
Profile 20x40, single, 3000mm long	3 842 517 178

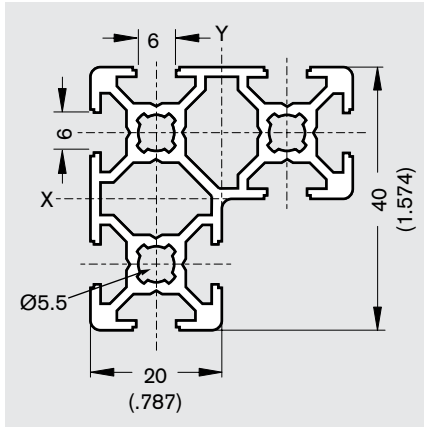
Machined Options	End Finish	Part Number
Profile 20x40, -/-, specify length $\geq 30\text{mm} \leq 3000\text{mm}$		3 842 992 891/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

2

20x40x40 



Features:

- L-shape allows for easy attachment of racks and shelves
- Use for enclosures and display cases
- Has eight 6mm T-slots

Non-Machined End Finish Options

Part Number

Profile 20x40x40, pkg. of 16, 3000mm long

3 842 537 818

Profile 20x40x40, single, 3000mm long

3 842 523 241

Machined Options

End Finish

Part Number

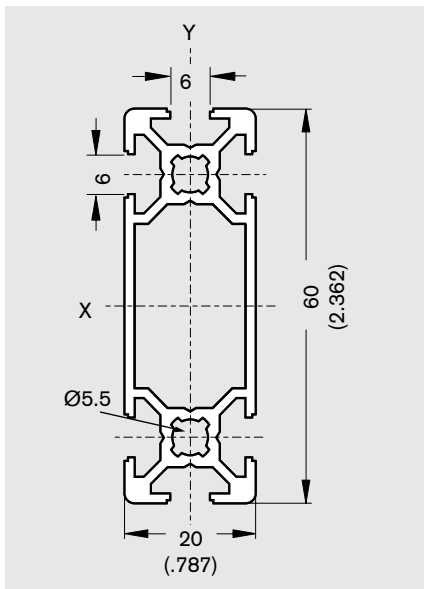
Profile 20x40x40, -/-, specify length $\geq 30\text{mm} \leq 3000\text{mm}$



3 842 992 991/ __mm

Please contact your distributor for other machining options.

20x60 



Features:

- Provides increased strength for light-duty machine bases and standard manual workstations
- Has six 6mm T-slots

Non-Machined End Finish Options

Part Number

Profile 20x60, pkg. of 16, 3000mm long

3 842 537 819

Profile 20x60, single, 3000mm long

3 842 523 239

Machined Options

End Finish

Part Number

Profile 20x60, -/-, specify length $\geq 30\text{mm} \leq 3000\text{mm}$

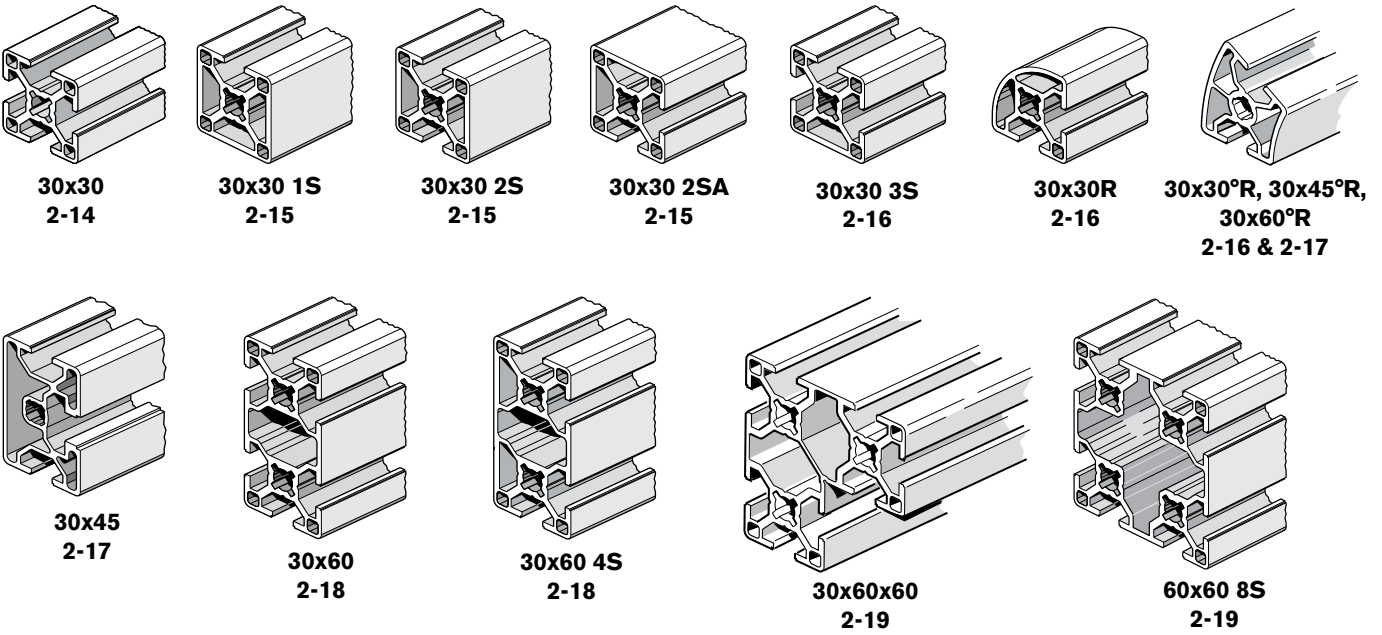


3 842 992 992/ __mm

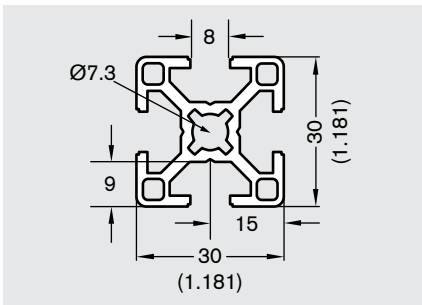
Please contact your distributor for other machining options.

Section 2: Profiles

30-Series Profiles



30x30 **Goto**



Features:

- Ideal for medium-duty, medium-stress construction, such as guarding, partitions, shelves, etc.
- Has four 8mm T-slots

Non-Machined End Finish Options

	Part Number
Profile 30x30, pkg. of 20, 6000mm long	3 842 501 574 Goto
Profile 30x30, single, 6000mm long	3 842 502 538 Goto

Machined Options


Machined Options	End Finish	Part Number
Profile 30x30, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$		3 842 990 720/ __mm
Profile 30x30, M8/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 990 721/ __mm
Profile 30x30, D11/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$		3 842 990 722/ __mm
Profile 30x30, M8/M8, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 990 723/ __mm
Profile 30x30, M8/D11, specify length $\geq 70\text{mm} \leq 6000\text{mm}$		3 842 990 724/ __mm
Profile 30x30, D11/D11, specify length $\geq 60\text{mm} \leq 6000\text{mm}$		3 842 990 725/ __mm
Profile 30x30, D11/D11VS, specify length $\geq 60\text{mm} \leq 6000\text{mm}$		3 842 990 726/ __mm
Profile 30x30, D7.8/D7.8, specify length $\geq 60\text{mm} \leq 6000\text{mm}$		3 842 992 965/ __mm

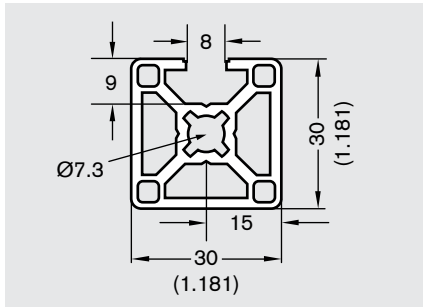
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Section 2: Profiles

2

30x30 1S 



Features:

- Ideal for medium-duty construction
- Closed T-slots provide neat, finished appearance
- Has one 8mm T-slot

Non-Machined End Finish Options

Part Number

Profile 30x30 1S, pkg. of 20, 5600mm long

3 842 506 948

Profile 30x30 1S, single, 5600mm long

3 842 506 952

Machined Options

End Finish


Part Number

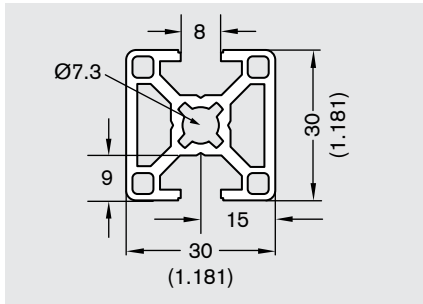
Profile 30x30 1S, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$



3 842 992 397/ __mm

Please contact your distributor for other machining options.

30x30 2S 



Features:

- Ideal for medium-duty construction
- Two closed T-slots provide neat, finished appearance
- Has two 8mm T-slots

Non-Machined End Finish Options

Part Number

Profile 30x30 2S, pkg. of 20, 5600mm long

3 842 506 950

Profile 30x30 2S, single, 5600mm long

3 842 506 954

Machined Options

End Finish

Part Number

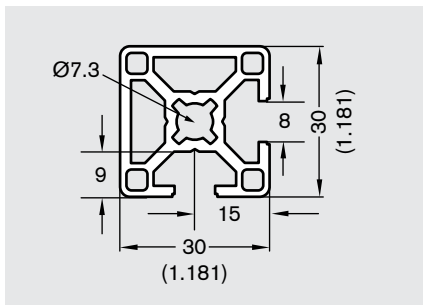
Profile 30x30 2S, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$



3 842 992 399/ __mm

Please contact your distributor for other machining options.

30x30 2SA 



Features:

- Ideal for medium-duty construction
- Two adjacent closed T-slots provide neat, finished appearance
- Has two adjacent 8mm T-slots

Non-Machined End Finish Options

Part Number

Profile 30x30 2SA, pkg. of 20, 5600mm long

3 842 506 949

Profile 30x30 2SA, single, 5600mm long

3 842 506 953

Machined Options

End Finish

Part Number

Profile 30x30 2SA, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$



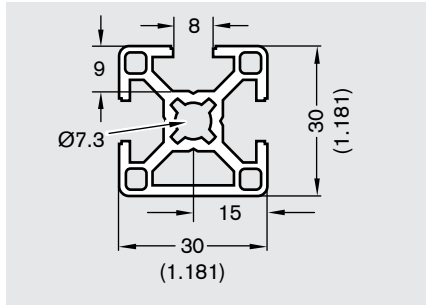
3 842 992 398/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

30-Series Profiles

30x30 3S



Features:

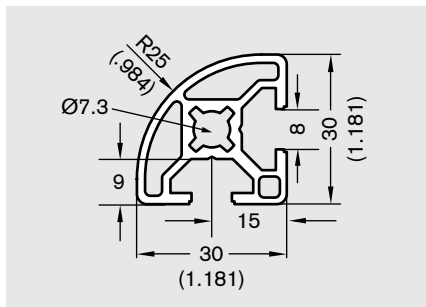
- Ideal for medium-duty construction
- Closed T-slot provides neat, finished appearance
- Has three 8mm T-slots

Non-Machined End Finish Options	Part Number
Profile 30x30 3S, pkg. of 20, 5600mm long	3 842 506 951
Profile 30x30 3S, single, 5600mm long	3 842 506 955

Machined Options	End Finish	Part Number
Profile 30x30 3S, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$	<input type="text"/>	3 842 992 400/ __mm

Please contact your distributor for other machining options.

30x30R



Features:

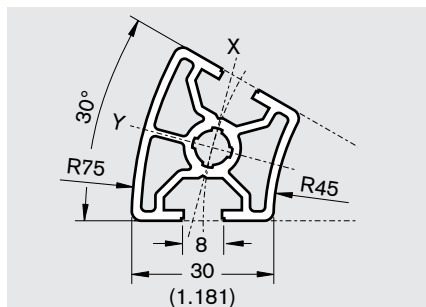
- Ideal for medium-duty construction
- Radius corner provides neat, finished appearance
- Has two adjacent 8mm T-slots

Non-Machined End Finish Options	Part Number
Profile 30x30R, pkg. of 20, 5600mm long	3 842 517 198
Profile 30x30R, single, 5600mm long	3 842 517 197

Machined Options	End Finish	Part Number
Profile 30x30R, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$	<input type="text"/>	3 842 992 896/ __mm

Please contact your distributor for other machining options.

30x30°R



Features:

- Provides high-tech appearance
- Curved surfaces ideal for following machine or space contours
- Has two 8mm T-slots

Non-Machined End Finish Options	Part Number
Profile 30x30°R, pkg. of 20, 5600mm long	3 842 524 031
Profile 30x30°R, single, 5600mm long	3 842 524 030

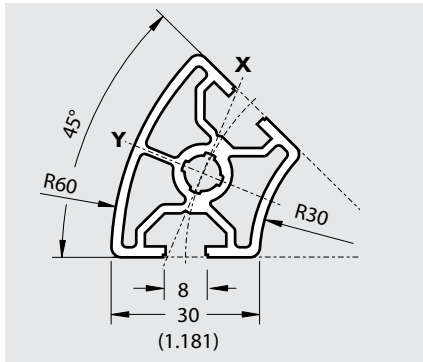
Machined Options	End Finish	Part Number
Profile 30x30°R, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$	<input type="text"/>	3 842 993 010/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

2

30x45°R  



Features:

- Provides high-tech appearance
- Curved surfaces ideal for following machine or space contours
- Has two 8mm T-slots

Non-Machined End Finish Options

	Part Number
Profile 30x45°R, pkg. of 20, 5600mm long	3 842 524 034
Profile 30x45°R, single, 5600mm long	3 842 524 033

Machined Options

Profile 30x45°R, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$



End Finish

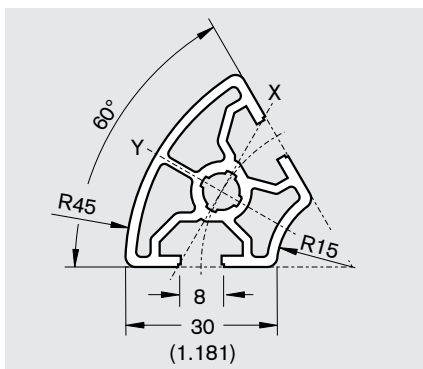


Part Number

3 842 993 011/ __mm

Please contact your distributor for other machining options.

30x60°R  



Features:

- Provides high-tech appearance
- Curved surfaces ideal for following machine or space contours
- Has two 8mm T-slots

Non-Machined End Finish Options

	Part Number
Profile 30x60°R, pkg. of 20, 5600mm long	3 842 524 037
Profile 30x60°R, single, 5600mm long	3 842 524 036

Machined Options

Profile 30x60°R, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$

End Finish

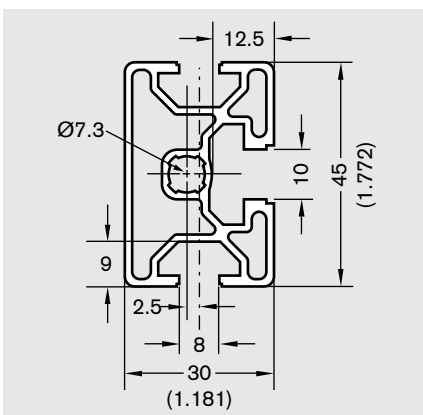


Part Number

3 842 993 012/ __mm

Please contact your distributor for other machining options.

30x45  



Features:

- Ideal for intermediate connection between 8mm and 10mm T-slotted profiles
- Has two 8mm T-slots and one 10mm T-slot

Non-Machined End Finish Options

	Part Number
Profile 30x45, pkg. of 18, 5600mm long	3 842 511 704
Profile 30x45, single, 5600mm long	3 842 511 703

Machined Options

Profile 30x45, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$

End Finish



Part Number

3 842 992 430/ __mm

Profile 30x45, M8/-, specify length $\geq 40\text{mm} \leq 5600\text{mm}$



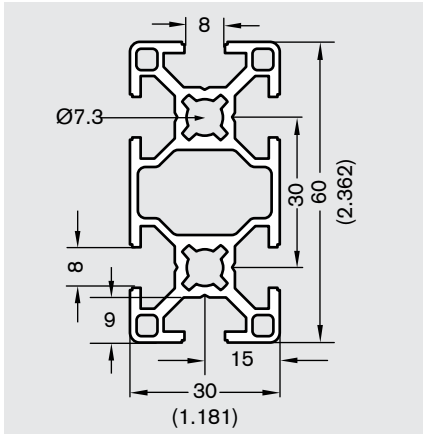
3 842 992 431/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

30-Series Profiles

30x60 **GoTo**



Features:

- One of the strongest profiles with 8mm T-slots
- Has six 8mm T-slots

Non-Machined End Finish Options









Part Number

Profile 30x60, pkg. of 10, 5600mm long	3 842 512 603 <i>GoTo</i>
Profile 30x60, single, 5600mm long	3 842 512 930 <i>GoTo</i>

Machined Options

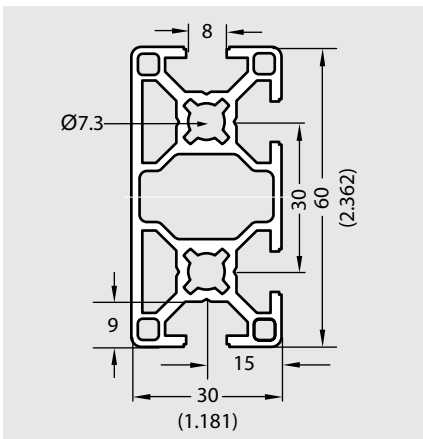
End Finish

Part Number

Profile 30x60, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$		3 842 992 457/ __mm
Profile 30x60, M8/-, specify length $\geq 40\text{mm} \leq 5600\text{mm}$		3 842 992 458/ __mm
Profile 30x60, D11/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$		3 842 992 459/ __mm
Profile 30x60, D11VS/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$		3 842 992 461/ __mm
Profile 30x60, M8/M8, specify length $\geq 80\text{mm} \leq 5600\text{mm}$		3 842 992 926/ __mm
Profile 30x60, D11/D11, specify length $\geq 60\text{mm} \leq 5600\text{mm}$		3 842 992 460/ __mm
Profile 30x60, D11VS/D11VS, specify length $\geq 60\text{mm} \leq 5600\text{mm}$		3 842 992 462/ __mm
Profile 30x60, D11VS/D11, specify length $\geq 60\text{mm} \leq 5600\text{mm}$		3 842 992 463/ __mm

Please contact your distributor for other machining options.

30x60 4S



Features:

- Ideal for medium-duty construction
- Use for enclosures and display cases
- Has four 8mm T-slots

Non-Machined End Finish Options

Part Number

Profile 30x60 4S, pkg. of 10, 6000mm long	3 842 536 472
Profile 30x60 4S, single, 6000mm long	3 842 536 473

Machined Options

End Finish

Part Number

Profile 30x60 4S, -/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 993 420/ __mm
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
Please contact your distributor for other machining options.

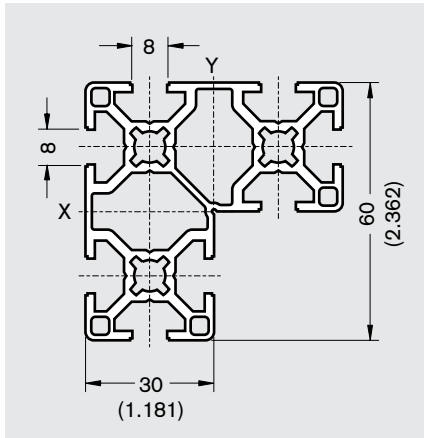


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Section 2: Profiles

2

30x60x60 



Features:


- L-shape allows for easy attachment of racks and shelves
- Use for enclosures and display cases
- Has eight 8mm T-slots

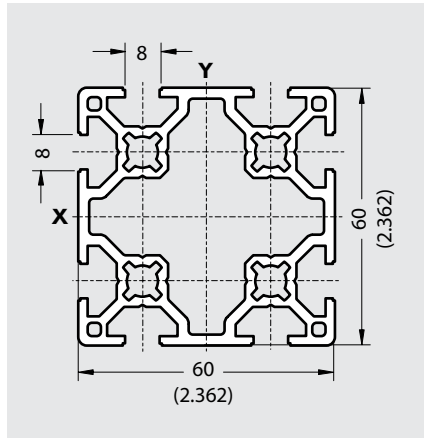
Non-Machined End Finish Options	Part Number
Profile 30x60x60, pkg. of 20, 5600mm long	3 842 524 049
Profile 30x60x60, single, 5600mm long	3 842 524 048

Machined Options	End Finish	Part Number
Profile 30x60x60, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$	<input type="checkbox"/>	3 842 993 016/ __mm

Please contact your distributor for other machining options.



60x60 8S 



Features:

- Ideal for heavy applications where added strength and additional T-slots are required
- Has eight 8mm T-slots

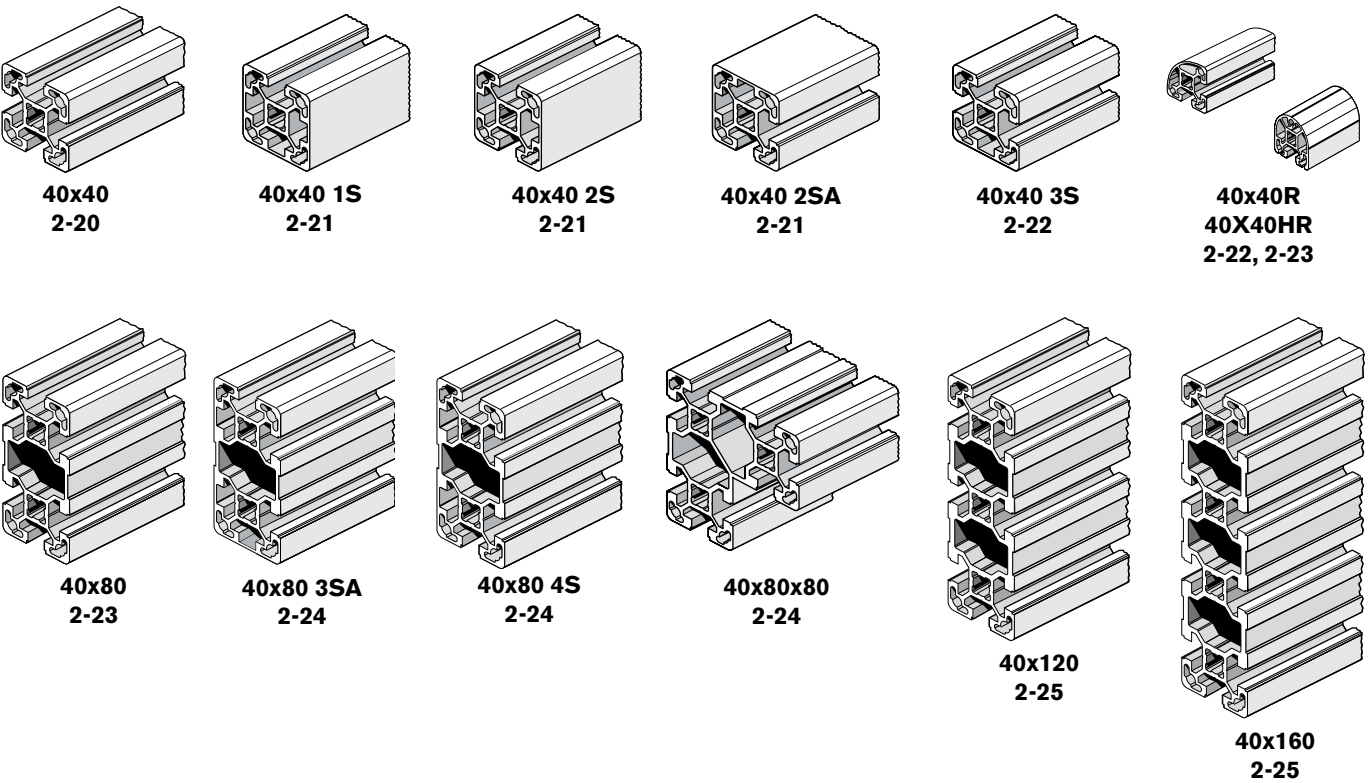
Non-Machined End Finish Options	Part Number
Profile 60x60 8S, pkg. of 20, 6000mm long	3 842 535 176
Profile 60x60 8S, single, 6000mm long	3 842 535 175

Machined Options	End Finish	Part Number
Profile 60x60 8S, -/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	3 842 993 033/ __mm

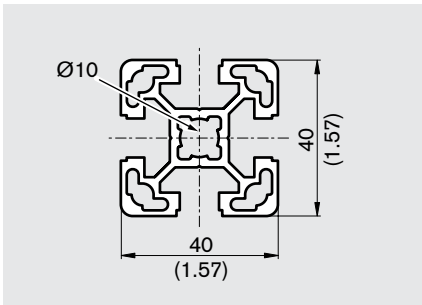
Please contact your distributor for other machining options.

Section 2: Profiles

40-Series Profiles



40x40 *GoTo*



Features:

- Ideal for medium-duty, medium-stress construction, such as guarding, partitions, shelves, etc.
- Has four 10mm T-slots

Non-Machined End Finish Options

Profile 40x40, pkg. of 20, 6000mm long	3 842 529 339 <i>GoTo</i>
Profile 40x40, single, 6000mm long	3 842 529 340 <i>GoTo</i>

Part Number

3 842 529 339 <i>GoTo</i>
3 842 529 340 <i>GoTo</i>

Machined Options


	End Finish	Part Number
Profile 40x40, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$		3 842 993 120/ __mm
Profile 40x40, M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$		3 842 993 121/ __mm
Profile 40x40, D17/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 993 124/ __mm
Profile 40x40, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 993 122/ __mm
Profile 40x40, M12/D17, specify length $\geq 90\text{mm} \leq 6000\text{mm}$		3 842 993 123/ __mm
Profile 40x40, D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 993 125/ __mm
Profile 40x40, D17/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 993 126/ __mm
Profile 40x40, D9.8/D9.8, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 993 129/ __mm

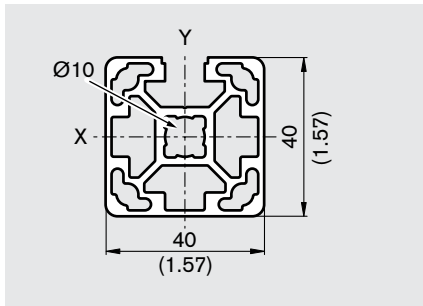
Please contact your distributor for other machining options.

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Section 2: Profiles

2



40x40 1S 




Features:

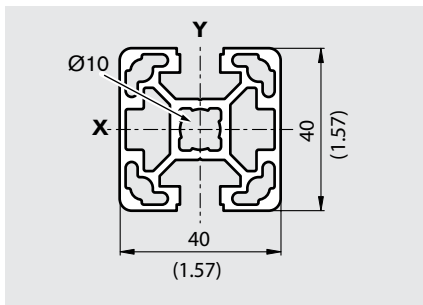
- Ideal for medium-duty construction
- Closed T-slots provide neat, finished appearance
- Has one 10mm T-slot

Non-Machined End Finish Options	Part Number
Profile 40x40 1S, pkg. of 20, 6000mm long	3 842 529 361
Profile 40x40 1S, single, 6000mm long	3 842 529 362

Machined Options	End Finish	Part Number
Profile 40x40 1S, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$		3 842 993 185/ __mm
Profile 40x40 1S, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 993 186/ __mm

Please contact your distributor for other machining options.



40x40 2S 




Features:

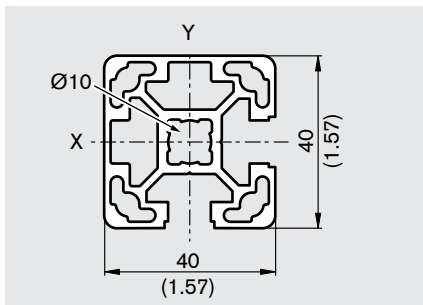
- Ideal for medium-duty construction
- Two closed T-slots provide neat, finished appearance
- Has two 10mm T-slots

Non-Machined End Finish Options	Part Number
Profile 40x40 2S, pkg. of 20, 6000mm long	3 842 529 363
Profile 40x40 2S, single, 6000mm long	3 842 529 364

Machined Options	End Finish	Part Number
Profile 40x40 2S, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$		3 842 993 187/ __mm
Profile 40x40 2S, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 993 188/ __mm

Please contact your distributor for other machining options.


40x40 2SA 



Features:

- Ideal for medium-duty construction
- Two adjacent closed T-slots provide neat, finished appearance
- Has two adjacent 10mm T-slots

Non-Machined End Finish Options	Part Number
Profile 40x40 2SA, pkg. of 20, 6000mm long	3 842 529 365
Profile 40x40 2SA, single, 6000mm long	3 842 529 366

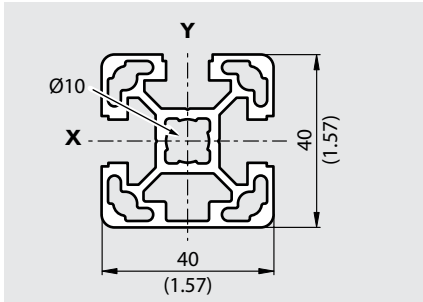
Machined Options	End Finish	Part Number
Profile 40x40 2SA, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$		3 842 993 189/ __mm
Profile 40x40 2SA, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 993 190/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

40-Series Profiles



40x40 3S



Features:

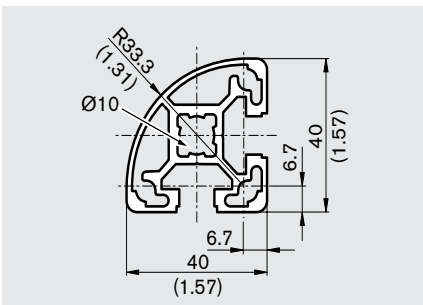
- Ideal for medium-duty construction
- Closed T-slot provides neat, finished appearance
- Has three 10mm T-slots

Non-Machined End Finish Options	Part Number
Profile 40x40 3S, pkg. of 20, 6000mm long	3 842 529 367
Profile 40x40 3S, single, 6000mm long	3 842 529 368

Machined Options	End Finish	Part Number
Profile 40x40 3S, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$		3 842 993 191/ __mm
Profile 40x40 3S, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 993 192/ __mm

Please contact your distributor for other machining options.


40x40R



Features:

- Curved edge provides neat, finished appearance
- Has two 10mm T-slots


Non-Machined End Finish Options	Part Number
Profile 40x40R, pkg. of 20, 6000mm long	3 842 529 359
Profile 40x40R, single, 6000mm long	3 842 529 360

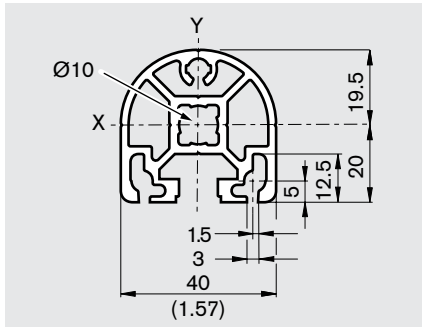
Machined Options	End Finish	Part Number
Profile 40x40R, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$		3 842 993 184/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

2

40x40HR 



Features:

- Ideal for hand rails and other smoothed, finished edges
- Has one 10mm T-slot

Non-Machined End Finish Options

Part Number

Profile 40x40HR, pkg. of 20, 6000mm long

3 842 529 381

Profile 40x40HR, single, 6000mm long

3 842 529 382

Machined Options

End Finish

Part Number

Profile 40x40HR, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$



3 842 993 256/ __mm

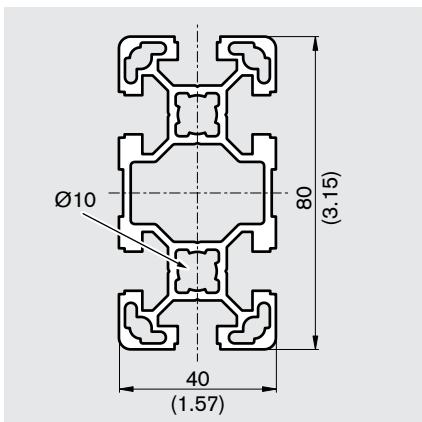
Profile 40x40HR, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$



3 842 993 257/ __mm

Please contact your distributor for other machining options.

40x80 



Features:

- Ideal for medium-duty, to heavy-duty construction, such as guarding, machine bases, etc.
- Has six 10mm T-slots

Non-Machined End Finish Options

Part Number

Profile 40x80, pkg. of 12, 6000mm long

3 842 529 341

Profile 40x80, single, 6000mm long

3 842 529 342

Machined Options

End Finish

Part Number

Profile 40x80, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$



3 842 993 130/ __mm

Profile 40x80, M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$



3 842 993 131/ __mm

Profile 40x80, D17VS/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$



3 842 993 137/ __mm

Profile 40x80, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$



3 842 993 132/ __mm

Profile 40x80, D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$



3 842 993 135/ __mm

Profile 40x80, D17/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$



3 842 993 136/ __mm

Profile 40x80, D17VS/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$

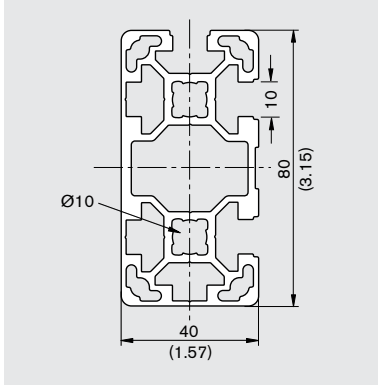


3 842 993 138/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

40-Series Profiles

40x80 3SA **Features:**

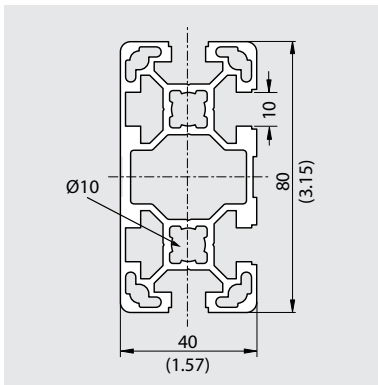

- Ideal for medium-duty to heavy-duty applications such as machine frames and work benches.
- Has three 10mm T-slots
- Smooth on two sides

Non-Machined End Finish Options

Profile 40x80 3SA pkg. of 12, 6000mm long

Part Number**3 842 538 330**

Profile 40x80 3SA, single, 6000mm long

3 842 538 329**Machined Options**Profile 40x80 3SA -/-, specify length $\geq 50\text{mm} \leq 6000\text{mm}$ **End Finish****Part Number****3 842 993 654/ __mm***Please contact your distributor for other machining options.*40x80 4S **Features:**

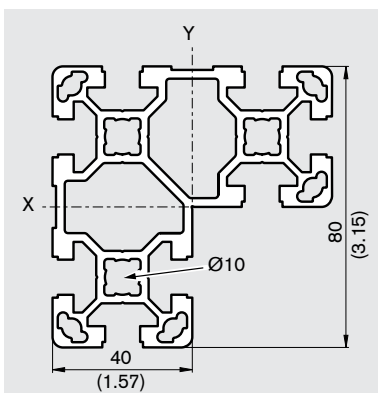
- Ideal for medium-duty to heavy-duty applications such as machine frames and work benches.
- Has four 10mm T-slots

Non-Machined End Finish Options

Profile 40x80 4S pkg. of 12, 6000mm long

Part Number**3 842 536 484**

Profile 40x80 4S, single, 6000mm long

3 842 536 485**Machined Options**Profile 40x80 4S -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$ **End Finish****Part Number****3 842 993 424/ __mm***Please contact your distributor for other machining options.*40x80x80 **Features:**

- Ideal for medium-duty to heavy-duty applications such as machine frames and work benches.
- Has eight 10mm T-slots

Non-Machined End Finish Options

Profile 40x80x80, pkg. of 8, 6000mm long


Part Number**3 842 537 827**

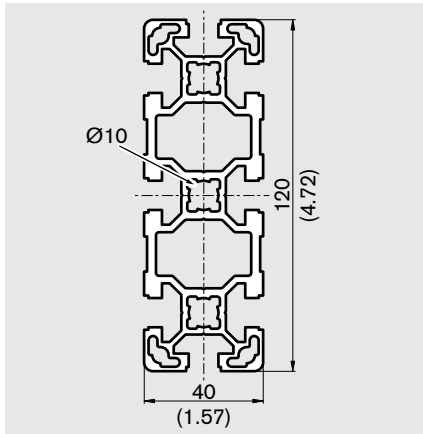
Profile 40x80x80, single, 6000mm long

3 842 529 370**Machined Options**Profile 40x80x80, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$ **End Finish****Part Number****3 842 993 193/ __mm***Please contact your distributor for other machining options.*

Section 2: Profiles

2






40x120 



Features:

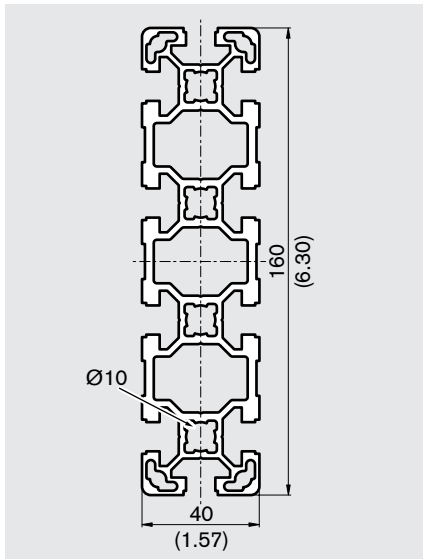
- Ideal for heavy-duty applications where additional strength is needed, such as machine bases and work benches
- Suitable for linear motion applications
- Has eight 10mm T-slots

Non-Machined End Finish Options	Part Number
Profile 40x120, pkg. of 8, 6000mm long	3 842 537 824
Profile 40x120, single, 6000mm long	3 842 529 344

Machined Options	End Finish	Part Number
Profile 40x120, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$		3 842 993 139/ __mm
Profile 40x120, M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$		3 842 993 140/ __mm
Profile 40x120, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 993 141/ __mm
Profile 40x120, D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 993 142/ __mm
Profile 40x120, D17VS/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 993 225/ __mm

Please contact your distributor for other machining options.





40x160 



Features:

- Ideal for heavy-duty applications where additional strength is needed, such as machine bases and work benches
- Suitable for linear motion applications
- Has ten 10mm T-slots

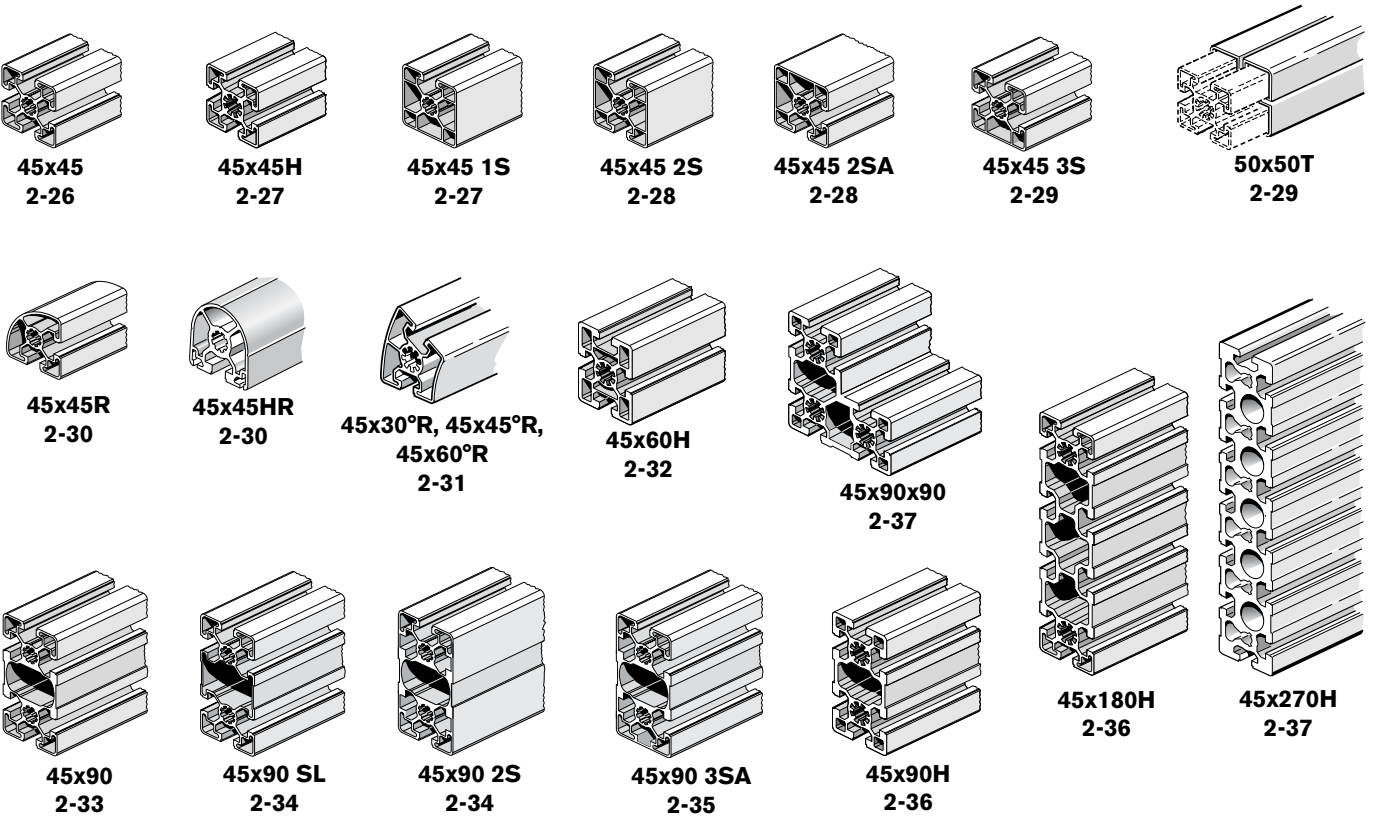
Non-Machined End Finish Options	Part Number
Profile 40x160, pkg. of 6, 6000mm long	3 842 529 345
Profile 40x160, single, 6000mm long	3 842 529 346

Machined Options	End Finish	Part Number
Profile 40x160, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$		3 842 993 143/ __mm
Profile 40x160, M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$		3 842 993 144/ __mm
Profile 40x160, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 993 145/ __mm
Profile 40x160, D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 993 146/ __mm

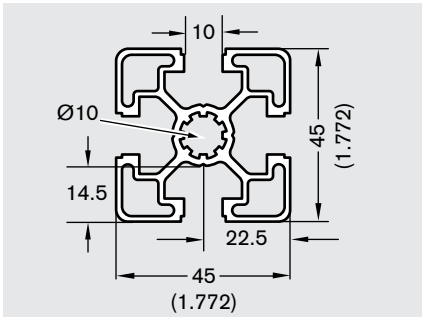
Please contact your distributor for other machining options.

Section 2: Profiles

45-Series Profiles



45x45 ¹⁰ GoTo



Features:

- General purpose, medium-duty profile for a wide variety of applications
- Has four 10mm T-slots

Non-Machined End Finish Options

	Part Number
Profile 45x45, pkg. of 20, 6000mm long	8 981 004 744 GoTo
Profile 45x45, single, 6000mm long	8 981 004 773 GoTo

Machined Options


	End Finish	Part Number
Profile 45x45, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$		8 981 992 026/ __mm
Profile 45x45, M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$		8 981 992 027/ __mm
Profile 45x45, M12-D9.8-D9.8VS/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$		8 981 992 030/ __mm
Profile 45x45, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		8 981 992 028/ __mm
Profile 45x45, M12-D9.8-D9.8VS/M12-D9.8-D9.8VS, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		8 981 992 032/ __mm
Profile 45x45, D9.8/D9.8, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 992 967/ __mm

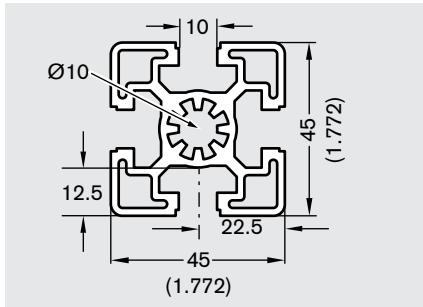
Please contact your distributor for other machining options.

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Section 2: Profiles

2














45x45H  **Goto**



Features:

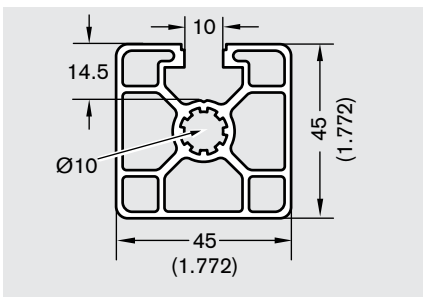
- General purpose, thicker-walled profile for strong, rugged performance
- Has four 10mm T-slots

Non-Machined End Finish Options	Part Number
Profile 45x45H, pkg. of 20, 6000mm long	3 842 315 100 Goto
Profile 45x45H, single, 6000mm long	3 842 507 125 Goto

Machined Options	End Finish	Part Number
Profile 45x45H, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$		3 842 990 520/ __mm
Profile 45x45H, M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$		3 842 990 517/ __mm
Profile 45x45H, M16/-, specify length $\geq 115\text{mm} \leq 6000\text{mm}$		3 842 990 521/ __mm
Profile 45x45H, D17/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 990 648/ __mm
Profile 45x45H, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 990 518/ __mm
Profile 45x45H, M16/M12, specify length $\geq 175\text{mm} \leq 6000\text{mm}$		3 842 990 519/ __mm
Profile 45x45H, M16/M16, specify length $\geq 240\text{mm} \leq 6000\text{mm}$		3 842 990 522/ __mm
Profile 45x45H, M12/D17 specify length $\geq 90\text{mm} \leq 6000\text{mm}$		3 842 990 640/ __mm
Profile 45x45H, M16/D17, specify length $\geq 165\text{mm} \leq 6000\text{mm}$		3 842 990 642/ __mm
Profile 45x45H, M12-D9.8-D9.8VS/M12-D9.8-D9.8VS, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 992 372/ __mm
Profile 45x45H, D9.8/D9.8, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 992 969/ __mm
Profile 45x45H, D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 990 644/ __mm
Profile 45x45H, D17/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 990 646/ __mm

Please contact your distributor for other machining options.



45x45 1S 



Features:

- Closed T-slots provide neat, finished appearance
- Has one 10mm T-slot

Non-Machined End Finish Options	Part Number
Profile 45x45 1S, pkg. of 20, 5600mm long	3 842 506 956
Profile 45x45 1S, single, 5600mm long	3 842 506 960

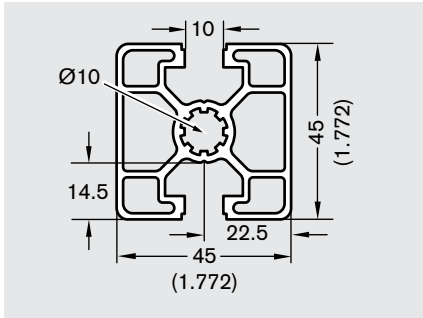
Machined Options	End Finish	Part Number
Profile 45x45 1S, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$		3 842 992 401/ __mm
Profile 45x45 1S, M12/M12, specify length $\geq 110\text{mm} \leq 5600\text{mm}$		3 842 992 405/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

45-Series Profiles

45x45 2S





Features:

- Closed T-slots provide neat, finished appearance
- Has two 10mm T-slots

Non-Machined End Finish Options

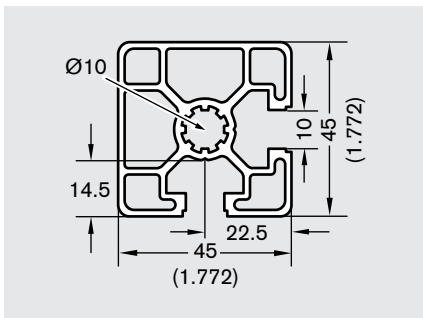
	Part Number
Profile 45x45 2S, pkg. of 20, 5600mm long	3 842 506 958
Profile 45x45 2S, single, 5600mm long	3 842 506 962

Machined Options

	End Finish	Part Number
Profile 45x45 2S, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$		3 842 992 403/ __mm
Profile 45x45 2S, M12/M12, specify length $\geq 110\text{mm} \leq 5600\text{mm}$		3 842 992 407/ __mm

Please contact your distributor for other machining options.

45x45 2SA





Features:

- Closed T-slots provide neat, finished appearance
- Has two adjacent 10mm T-slots

Non-Machined End Finish Options

	Part Number
Profile 45x45 2SA, pkg. of 20, 5600mm long	3 842 506 957
Profile 45x45 2SA, single, 5600mm long	3 842 506 961


Machined Options

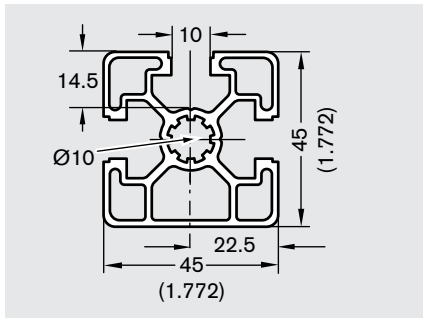
	End Finish	Part Number
Profile 45x45 2SA, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$		3 842 992 402/ __mm
Profile 45x45 2SA, M12/M12, specify length $\geq 110\text{mm} \leq 5600\text{mm}$		3 842 992 406/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

2

45x45 3S 



Features:

- Closed T-slot provides neat, finished appearance
- Has three 10mm T-slots

Non-Machined End Finish Options

Profile 45x45 3S, pkg. of 20, 5600mm long	3 842 506 959
Profile 45x45 3S, single, 5600mm long	3 842 506 963

Part Number

Machined Options

Profile 45x45 3S, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$

End Finish



Part Number


3 842 992 404/ __mm

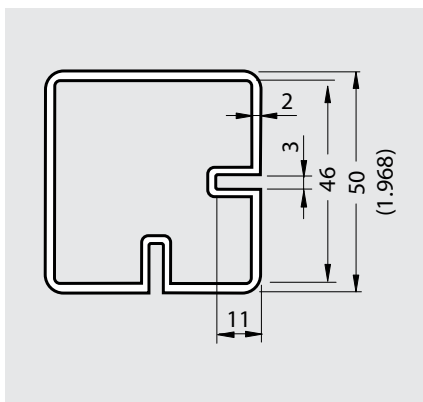
Profile 45x45 3S, M12/M12, specify length $\geq 110\text{mm} \leq 5600\text{mm}$



3 842 992 408/ __mm

Please contact your distributor for other machining options.

50x50T 



Features:

- Fits over 45x45H, 45x45, 45x45 3S, and 45x45 2SA profiles to create a telescoping sleeve
- Locks in place with a T-block and screw (sold separately, listed below)
- Two 3mm slots accept 3mm thick panels
- Use to create sliding doors, telescoping legs, and other adjustable structures

Non-Machined End Finish Options

Profile 50x50T, pkg. of 6, 5600mm long	3 842 537 817
Profile 50x50T, single, 5600mm long	3 842 537 847
T-Block, M8, one	3 842 528 735
Button-head screw, DIN 9427 M8x12	3 842 516 565

Part Number

Machined Options

Profile 50x50T, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$

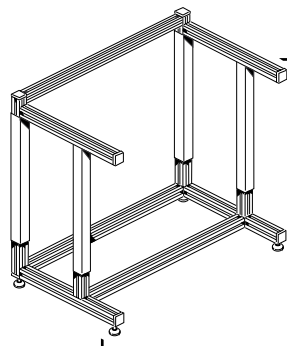
End Finish



Part Number

3 842 992 913/ __mm

Please contact your distributor for other machining options.




Helpful Hint

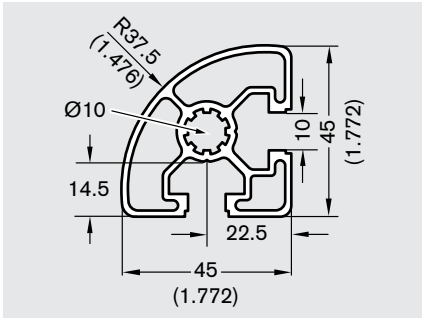
button-head screw
10mm T-block

Create a locking telescope section with 10mm T-blocks by drilling an 8.2mm dia. access hole in the side of the 50 x 50T profile.

Section 2: Profiles

45-Series Profiles

45x45R 



Features:

- Curved edge provides neat, finished appearance
- Has two 10mm T-slots

Non-Machined End Finish Options

	Part Number
Profile 45x45R, pkg. of 20, 5600mm long	3 842 517 200
Profile 45x45R, single, 5600mm long	3 842 517 199


Machined Options

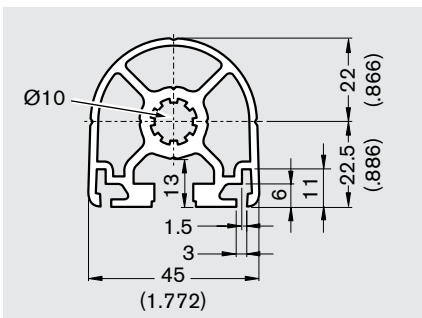
End Finish

Part Number

Profile 45x45R, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$		3 842 992 897/ __mm
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Please contact your distributor for other machining options.

45x45HR 



Features:

- Ideal for hand rails and other smoothed, finished edges
- Has one 10mm T-slot




Non-Machined End Finish Options

	Part Number
Profile 45x45HR, pkg. of 20, 5600mm long	3 842 525 505
Profile 45x45HR, single, 5600mm long	3 842 525 504

Machined Options

End Finish


Part Number

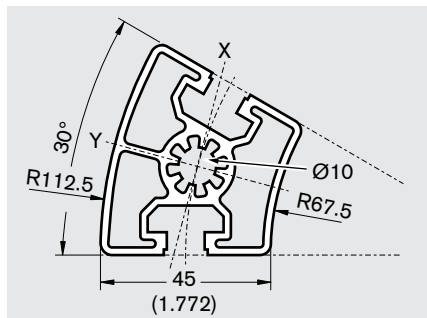
Profile 45x45HR, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$		3 842 992 945/ __mm
Profile 45x45HR, M12/M12, specify length $\geq 110\text{mm} \leq 5600\text{mm}$		3 842 992 999/ __mm
Profile 45x45HR, -/M12, specify length $\geq 55\text{mm} \leq 5600\text{mm}$		3 842 993 001/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

2

45x30°R 



Features:

- Provides high-tech appearance
- Curved surfaces ideal for following machine or space contours
- Has two 10mm T-slots

Non-Machined End Finish Options

- Profile 45x30°R, pkg. of 20, 5600mm long
- Profile 45x30°R, single, 5600mm long

Part Number

- 3 842 524 040**
- 3 842 524 039**

Machined Options

Profile 45x30°R, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$


End Finish

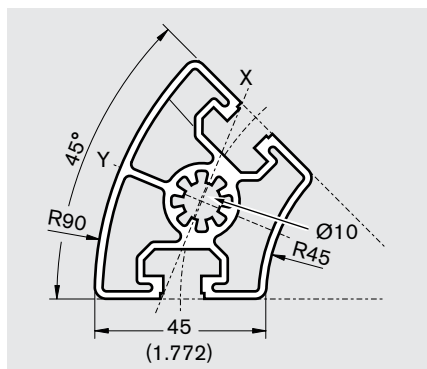


Part Number

3 842 993 013/ __mm

Please contact your distributor for other machining options.

45x45°R 



Features:

- Provides high-tech appearance
- Curved surfaces ideal for following machine or space contours
- Has two 10mm T-slots

Non-Machined End Finish Options

- Profile 45x45°R, pkg. of 20, 5600mm long
- Profile 45x45°R, single, 5600mm long

Part Number

- 3 842 524 043**
- 3 842 524 042**

Machined Options

Profile 45x45°R, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$


End Finish

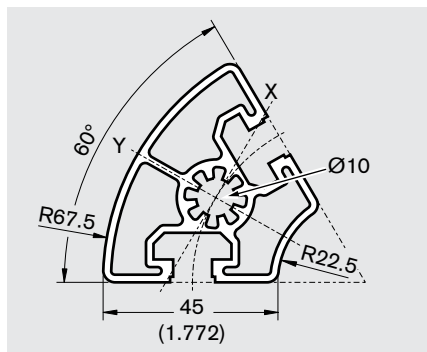


Part Number

3 842 993 014/ __mm

Please contact your distributor for other machining options.

45x60°R 



Features:

- Provides high-tech appearance
- Curved surfaces ideal for following machine or space contours
- Has two 10mm T-slots

Non-Machined End Finish Options

- Profile 45x60°R, pkg. of 20, 5600mm long
- Profile 45x60°R, single, 5600mm long

Part Number

- 3 842 524 046**
- 3 842 524 045**

Machined Options

Profile 45x60°R, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$

End Finish



Part Number

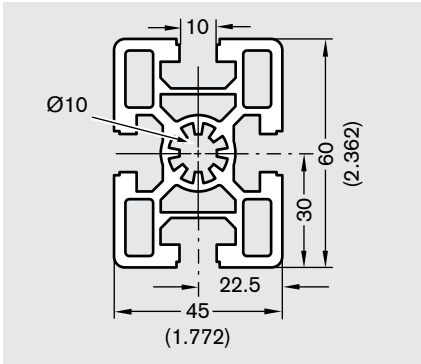
3 842 993 015/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

45-Series Profiles

45x60H ¹⁰ *GoTo*



Features:

- General purpose, medium-duty profile for strong, rugged performance
- Has four 10mm T-slots

Non-Machined End Finish Options

	Part Number
Profile 45x60H, pkg. of 20, 6000mm long	3 842 315 122 <i>GoTo</i>
Profile 45x60H, single, 6000mm long	3 842 507 127 <i>GoTo</i>


Machined Options

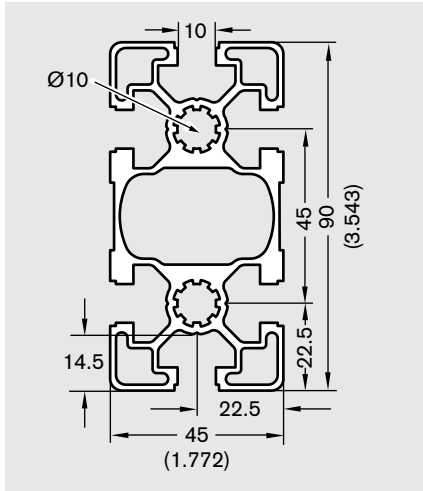
	End Finish	Part Number
Profile 45x60H, -/-, specify length $\geq 50\text{mm} \leq 6000\text{mm}$		3 842 990 570/ __mm
Profile 45x60H, M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$		3 842 990 571/ __mm
Profile 45x60H, M16/-, specify length $\geq 120\text{mm} \leq 6000\text{mm}$		3 842 990 573/ __mm
Profile 45x60H, F1/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$		3 842 990 586/ __mm
Profile 45x60H, F2/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$		3 842 990 625/ __mm
Profile 45x60H, D9.8/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 992 376/ __mm
Profile 45x60H, D9.8VS/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 992 375/ __mm
Profile 45x60H, D17/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 990 688/ __mm
Profile 45x60H, D17VS/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 990 690/ __mm
Profile 45x60H, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 990 572/ __mm
Profile 45x60H, M16/M12, specify length $\geq 175\text{mm} \leq 6000\text{mm}$		3 842 990 575/ __mm
Profile 45x60H, M12/F1, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 990 592/ __mm
Profile 45x60H, M16/D17, specify length $\geq 165\text{mm} \leq 6000\text{mm}$		3 842 990 668/ __mm
Profile 45x60H, M16/D17VS, specify length $\geq 165\text{mm} \leq 6000\text{mm}$		3 842 990 666/ __mm
Profile 45x60H, M16/F1, specify length $\geq 165\text{mm} \leq 6000\text{mm}$		3 842 990 594/ __mm
Profile 45x60H, D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 990 672/ __mm
Profile 45x60H, D17/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 990 674/ __mm
Profile 45x60H, D17VS/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 990 670/ __mm
Profile 45x60H, F1/F1, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 990 584/ __mm
Profile 45x60H, F1/F1VS, specify length $\geq 55\text{mm} \leq 6000\text{mm}$		3 842 990 630/ __mm
Profile 45x60H, F2/F2, specify length $\geq 100\text{mm} \leq 6000\text{mm}$		3 842 992 491/ __mm
Profile 45x60H, D17LF/D17LF, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 993 085/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

2

45x90 



Features:

- Heavy-duty profile for strong, rugged performance
- Has six 10mm T-slots

Non-Machined End Finish Options











Part Number

Profile 45x90, pkg. of 12, 5600mm long	3 842 511 782 <i>GoTo</i>
Profile 45x90, single, 5600mm long	3 842 511 781 <i>GoTo</i>

Machined Options

End Finish

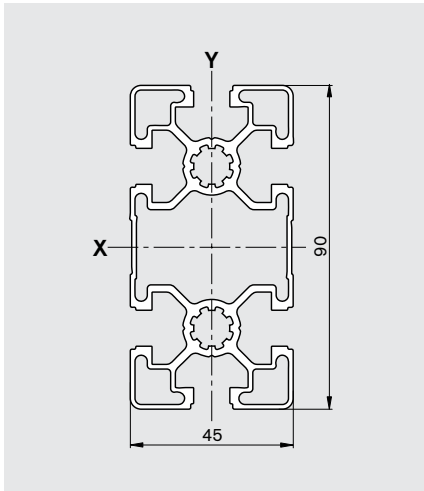
Part Number

Profile 45x90, -/-, specify length $\geq 50\text{mm} \leq 5600\text{mm}$		3 842 992 432/ _mm
Profile 45x90, M12/-, specify length $\geq 55\text{mm} \leq 5600\text{mm}$		3 842 992 453/ _mm
Profile 45x90, D17/-, specify length $\geq 40\text{mm} \leq 5600\text{mm}$		3 842 992 451/ _mm
Profile 45x90, D17VS/-, specify length $\geq 40\text{mm} \leq 5600\text{mm}$		3 842 992 452/ _mm
Profile 45x90, M12/M12, specify length $\geq 110\text{mm} \leq 5600\text{mm}$		3 842 992 433/ _mm
Profile 45x90, M12/D17, specify length $\geq 90\text{mm} \leq 5600\text{mm}$		3 842 992 434/ _mm
Profile 45x90, D17/D17, specify length $\geq 80\text{mm} \leq 5600\text{mm}$		3 842 992 437/ _mm
Profile 45x90, D17VS/D17, specify length $\geq 80\text{mm} \leq 5600\text{mm}$		3 842 992 436/ _mm
Profile 45x90, D17VS/D17VS, specify length $\geq 80\text{mm} \leq 5600\text{mm}$		3 842 992 435/ _mm
Profile 45x90, D17LF/D17LF, specify length $\geq 80\text{mm} \leq 5600\text{mm}$		3 842 993 084/ _mm

Please contact your distributor for other machining options.

Section 2: Profiles


45x90 SL 



Features:


- Lighter duty applications
- Has six 10mm T-slots

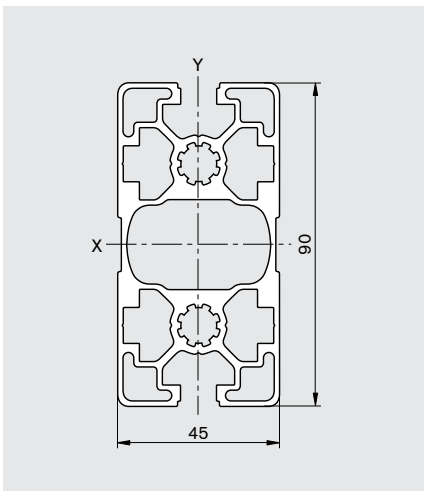
Non-Machined End Finish Options	Part Number
Profile 45x90 SL, pkg. of 12, 6000mm long	3 842 537 102
Profile 45x90 SL, single, 6000mm long	3 842 537 103

Machined Options	End Finish	Part Number
Profile 45x90 SL, -/-, specify length $\geq 50\text{mm} \leq 6000\text{mm}$		3 842 993 450/ __mm

Please contact your distributor for other machining options.




45x90 2S 



Features:

- Closed profile sides for cleanliness and aesthetics
- Has two 10mm T-slots

Non-Machined End Finish Options	Part Number
Profile 45x90 2S, pkg. of 12, 6000mm long	3 842 538 299
Profile 45x90 2S, single, 6000mm long	3 842 538 303

Machined Options	End Finish	Part Number
Profile 45x90 2S, -/-, specify length $\geq 50\text{mm} \leq 6000\text{mm}$		3 842 993 644/ __mm

Please contact your distributor for other machining options.

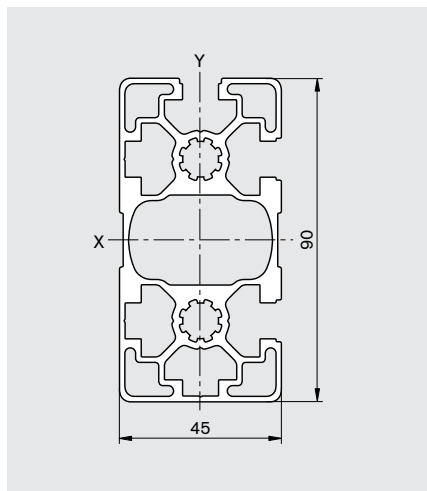


Section 2: Profiles

2



45x90 3SA 



Features:

- Closed profile side for cleanliness and aesthetics
- Has three 10mm T-slots

Non-Machined End Finish Options	Part Number
Profile 45x90 3SA, pkg. of 12, 6000mm long	3 842 538 298
Profile 45x90 3SA, single, 6000mm long	3 842 538 302

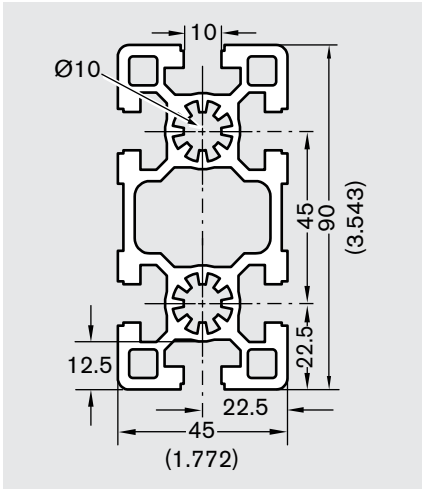
Machined Options	End Finish	Part Number
Profile 45x90 3SA, -/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$	<input type="text"/>	3 842 993 635/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

45-Series Profiles

45x90H ¹⁰



Features:

- Heavy-duty profile for strong, rugged performance
- Center channel can be used as an air manifold
- Has six 10mm T-slots

Non-Machined End Finish Options

	Part Number
Profile 45x90H, pkg. of 12, 6000mm long	3 842 315 123
Profile 45x90H, single, 6000mm long	3 842 507 123


Machined Options

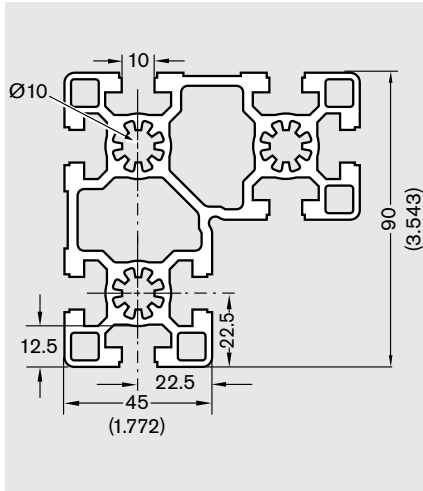
Machined Options	End Finish	Part Number
Profile 45x90H, -/-, specify length $\geq 50\text{mm} \leq 6000\text{mm}$		3 842 990 300/ __mm
Profile 45x90H, M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$		3 842 990 301/ __mm
Profile 45x90H, M16/-, specify length $\geq 120\text{mm} \leq 6000\text{mm}$		3 842 990 303/ __mm
Profile 45x90H, M16/M16, specify length $\geq 240\text{mm} \leq 6000\text{mm}$		3 842 990 304/ __mm
Profile 45x90H, -/D17, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 990 329/ __mm
Profile 45x90H, -/D17VS, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 990 331/ __mm
Profile 45x90H, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 990 302/ __mm
Profile 45x90H, M12/D17, specify length $\geq 90\text{mm} \leq 6000\text{mm}$		3 842 990 323/ __mm
Profile 45x90H, M12/D17VS, specify length $\geq 90\text{mm} \leq 6000\text{mm}$		3 842 990 305/ __mm
Profile 45x90H, M16/D17, specify length $\geq 165\text{mm} \leq 6000\text{mm}$		3 842 990 325/ __mm
Profile 45x90H, M16/D17VS, specify length $\geq 165\text{mm} \leq 6000\text{mm}$		3 842 990 307/ __mm
Profile 45x90H, D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 990 313/ __mm
Profile 45x90H, D17VS/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 990 311/ __mm
Profile 45x90H, D17VS/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 990 309/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

2

45x90x90 



Features:

- Heavy-duty profile applications where extra strength is needed, such as machine bases and frames, support columns, etc.
- Has eight 10mm T-slots

Non-Machined End Finish Options

- Profile 45x90x90, pkg. of 8, 6000mm long
- Profile 45x90x90, single, 6000mm long

Part Number

- 3 842 537 823**
- 3 842 537 846**

Machined Options

- Profile 45x90x90, -/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$
- Profile 45x90x90, M12/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$

End Finish

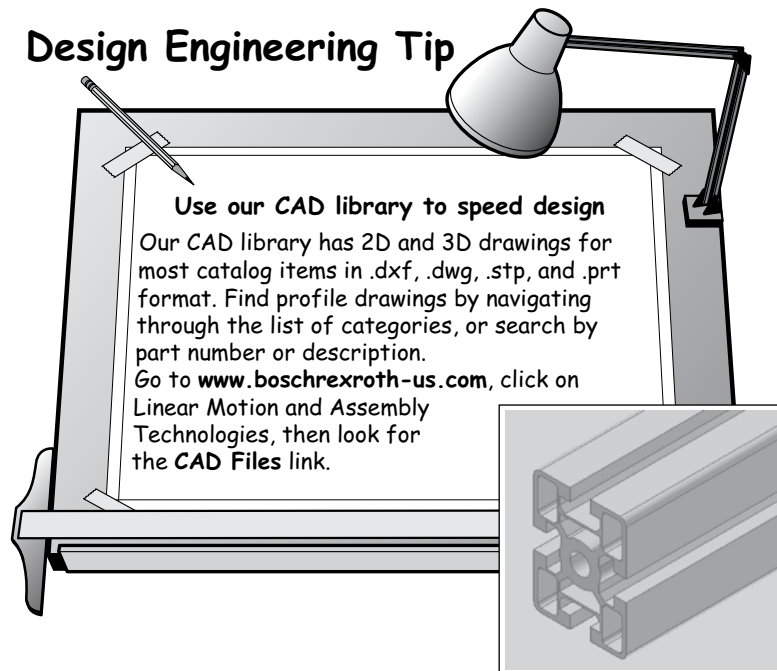


Part Number

- 3 842 992 387/ __mm**
- 3 842 992 388/ __mm**

Please contact your distributor for other machining options.

Design Engineering Tip



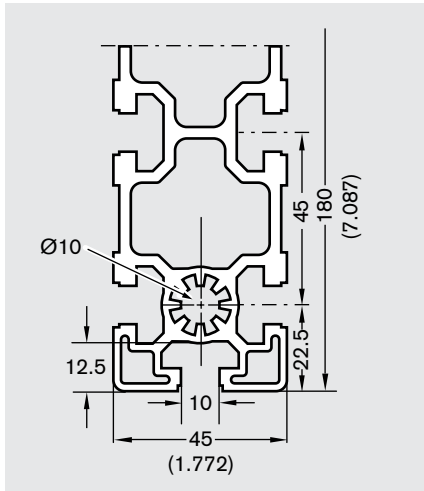
Use our CAD library to speed design

Our CAD library has 2D and 3D drawings for most catalog items in .dxf, .dwg, .stp, and .prt format. Find profile drawings by navigating through the list of categories, or search by part number or description. Go to www.boschrexroth-us.com, click on Linear Motion and Assembly Technologies, then look for the CAD Files link.

Section 2: Profiles

45-Series Profiles

45x180H



Features:

- Heavy-duty profile applications where extra strength is needed, such as machine bases and frames, support columns, etc.
- Center channels allow use as a three-port air bar
- Has ten 10mm T-slots











End view of complete profile



Non-Machined End Finish Options

	Part Number
Profile 45x180H, pkg. of 6, 5600mm long	3 842 509 187
Profile 45x180H, single, 5600mm long	3 842 509 201

Machined Options

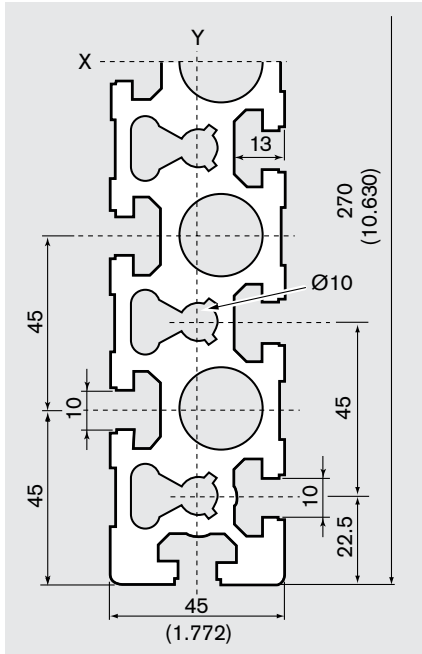
Machined Options	End Finish	Part Number
Profile 45x180H, -/-, specify length $\geq 50\text{mm} \leq 5600\text{mm}$		3 842 990 335/ __mm
Profile 45x180H, M12/-, specify length $\geq 55\text{mm} \leq 5600\text{mm}$		3 842 990 336/ __mm
Profile 45x180H, D17/-, specify length $\geq 40\text{mm} \leq 5600\text{mm}$		3 842 990 337/ __mm
Profile 45x180H, D17VS/-, specify length $\geq 40\text{mm} \leq 5600\text{mm}$		3 842 990 338/ __mm
Profile 45x180H, M12/M12, specify length $\geq 110\text{mm} \leq 5600\text{mm}$		3 842 990 339/ __mm
Profile 45x180H, M12/D17, specify length $\geq 90\text{mm} \leq 5600\text{mm}$		3 842 990 340/ __mm
Profile 45x180H, M12/D17VS, specify length $\geq 90\text{mm} \leq 5600\text{mm}$		3 842 990 341/ __mm
Profile 45x180H, D17/D17, specify length $\geq 80\text{mm} \leq 5600\text{mm}$		3 842 990 342/ __mm
Profile 45x180H, D17/D17VS, specify length $\geq 80\text{mm} \leq 5600\text{mm}$		3 842 990 343/ __mm
Profile 45x180H, D17VS/D17VS, specify length $\geq 80\text{mm} \leq 5600\text{mm}$		3 842 990 344/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

2

45x270H 



Features:

- Heavy-duty profile applications where extra strength is needed, such as machine bases and frames, support columns, etc.
- Has thirteen 10mm T-slots

End view of complete profile



Non-Machined End Finish Options

Part Number

Profile 45x270H, pkg. of 2, 5600mm long

3 842 520 025

Profile 45x270H, single, 5600mm long

3 842 520 024

Machined Options

End Finish

Part Number

Profile 45x270H, -/-, specify length $\geq 50\text{mm} \leq 5600\text{mm}$



3 842 992 927/ _mm

Profile 45x270H, M12/M12 (all holes), specify length $\geq 110\text{mm} \leq 5600\text{mm}$



3 842 992 455/ _mm

Profile 45x270H, M12/M12 (linear guide), specify length $\geq 110\text{mm} \leq 5600\text{mm}$



3 842 992 928/ _mm

Profile 45x270H, D17VS/D17VS, specify length $\geq 80\text{mm} \leq 5600\text{mm}$

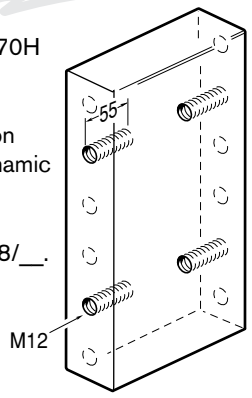


3 842 992 930/ _mm

Please contact your distributor for other machining options.

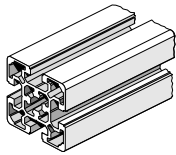
Application Hint

To order 45x270H with the holes tapped for use as a carriage on the LF20S dynamic linear element system, order 3 842 992 928/ _.

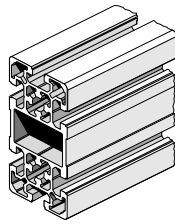


Section 2: Profiles

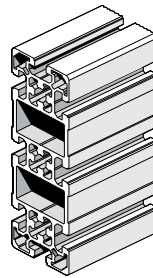
50-Series Profiles



50x50
2-40

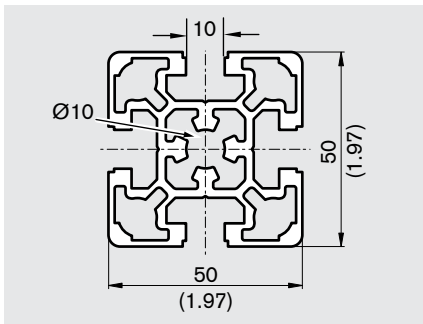


50x100
2-41



50x150
2-42

50x50



Features:

- General purpose, heavy-duty profile for strong, rugged performance
- Has four 10mm T-slots

Non-Machined End Finish Options

Profile 50x50, pkg. of 20, 6000mm long	3 842 529 351
Profile 50x50, single, 6000mm long	3 842 529 352

Part Number

3 842 529 351
3 842 529 352

Machined Options

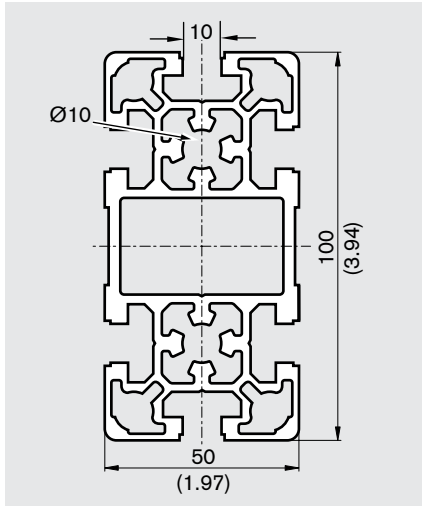
Machined Options	End Finish	Part Number
Profile 50x50 -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$		3 842 993 156/ __mm
Profile 50x50 M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$		3 842 993 157/ __mm
Profile 50x50 D17/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 993 160/ __mm
Profile 50x50 M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 993 158/ __mm
Profile 50x50 M12/D17, specify length $\geq 90\text{mm} \leq 6000\text{mm}$		3 842 993 159/ __mm
Profile 50x50 D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 993 161/ __mm
Profile 50x50 D17/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 993 162/ __mm
Profile 50x50 D9.8/D9.8, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 993 164/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

2

50x100 



Features:

- Heavy-duty profile where high strength is a must
- Has six 10mm T-slots

Non-Machined End Finish Options








Part Number

Profile 50x100, pkg. of 10, 6000mm long	3 842 537 825
Profile 50x100, single, 6000mm long	3 842 529 354

Machined Options

End Finish

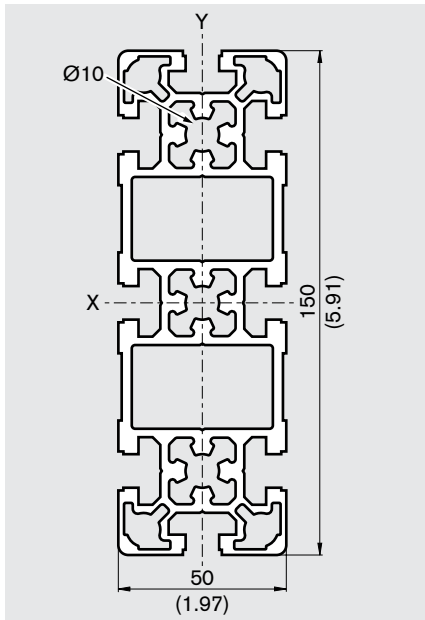
Part Number

Profile 50x100 -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$		3 842 993 163/ __mm
Profile 50x100 M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$		3 842 993 165/ __mm
Profile 50x100 D17VS/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 993 169/ __mm
Profile 50x100 M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 993 166/ __mm
Profile 50x100 D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 993 167/ __mm
Profile 50x100 D17/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 993 168/ __mm
Profile 50x100 D17VS/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 993 170/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

50x150 



Features:

- Extra heavy-duty profile for applications where high strength and rigidity is needed
- Has eight 10mm T-slots

Non-Machined End Finish Options

Part Number

Profile 50x150, pkg. of 4, 6000mm long

3 842 537 826

Profile 50x150, single, 6000mm long

3 842 529 378

Machined Options

End Finish

Part Number

Profile 50x150 -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$



3 842 993 196/ __mm

Profile 50x150 M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$



3 842 993 194/ __mm

Profile 50x150 M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$



3 842 993 199/ __mm

Profile 50x150 D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$



3 842 993 200/ __mm

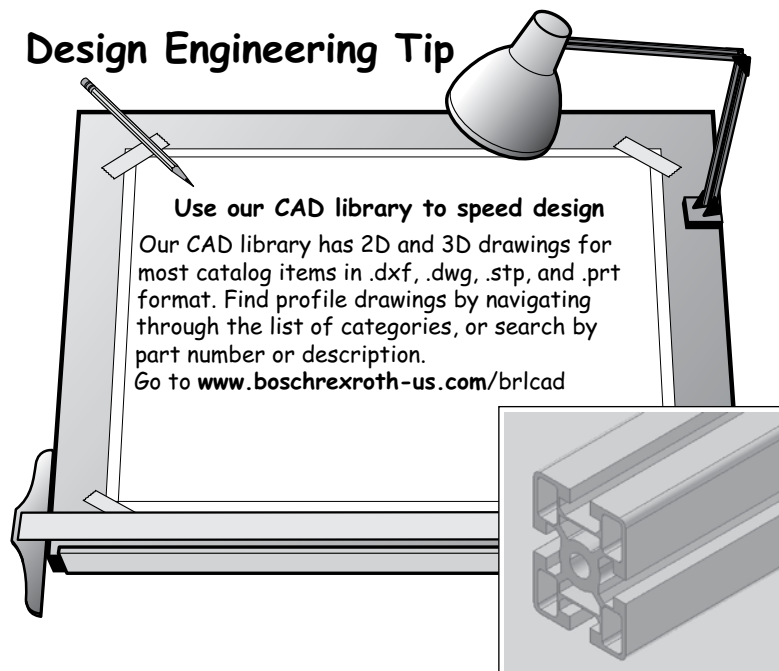
Profile 50x150 D17VS/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$



3 842 993 228/ __mm

Please contact your distributor for other machining options.

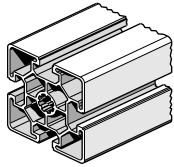
Design Engineering Tip



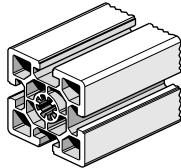
Section 2: Profiles

60-Series Profiles

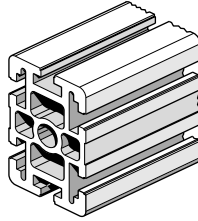
2



60x60
2-43

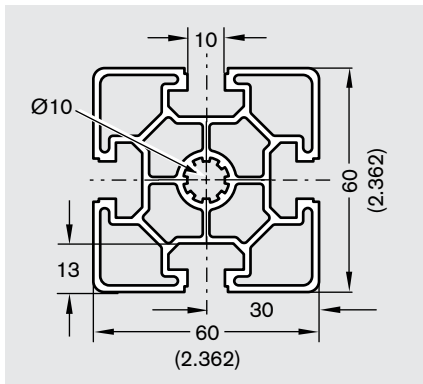


60x60H
2-44



60x90H
2-45

60x60



Features:

- General purpose profile suitable for medium-duty and heavy-duty applications
- Has four 10mm T-slots

Non-Machined End Finish Options

Part Number

- Profile 60x60, pkg. of 20, 5600mm long
- Profile 60x60, single, 5600mm long

- 3 842 511 872**
- 3 842 511 871**

Machined Options

End Finish

Part Number

- Profile 60x60, -/-, specify length $\geq 50\text{mm} \leq 5600\text{mm}$
- Profile 60x60, M12/-, specify length $\geq 55\text{mm} \leq 5600\text{mm}$
- Profile 60x60, D17/-, specify length $\geq 40\text{mm} \leq 5600\text{mm}$
- Profile 60x60, M12/M12, specify length $\geq 110\text{mm} \leq 5600\text{mm}$
- Profile 60x60, M12/D17, specify length $\geq 90\text{mm} \leq 5600\text{mm}$
- Profile 60x60, D17/D17, specify length $\geq 80\text{mm} \leq 5600\text{mm}$
- Profile 60x60, D17/D17VS, specify length $\geq 80\text{mm} \leq 5600\text{mm}$



3 842 992 443/ _mm



3 842 992 444/ _mm



3 842 992 449/ _mm



3 842 992 445/ _mm



3 842 992 446/ _mm



3 842 992 447/ _mm



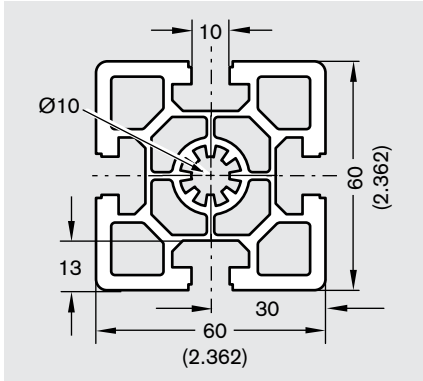
3 842 992 448/ _mm

Please contact your distributor for other machining options.

Section 2: Profiles

60-Series Profiles

60x60H













Features:

- General purpose profile suitable for medium-duty and heavy-duty applications
- Has four 10mm T-slots

Non-Machined End Finish Options

	Part Number
Profile 60x60H, pkg. of 20, 6000mm long	3 842 315 126
Profile 60x60H, single, 6000mm long	3 842 507 716

Machined Options

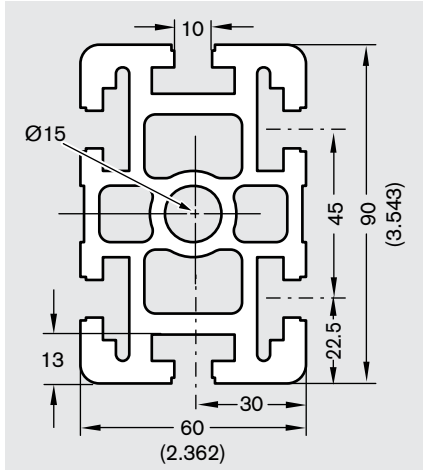
	End Finish	Part Number
Profile 60x60H, -/-, specify length $\geq 50\text{mm} \leq 6000\text{mm}$		3 842 990 350/ __mm
Profile 60x60H, M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$		3 842 990 351/ __mm
Profile 60x60H, M16/-, specify length $120\text{mm} \leq 6000\text{mm}$		3 842 990 352/ __mm
Profile 60x60H, D17/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 990 370/ __mm
Profile 60x60H, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 990 353/ __mm
Profile 60x60H, M16/M12, specify length $\geq 175\text{mm} \leq 6000\text{mm}$		3 842 990 354/ __mm
Profile 60x60H, M12/D17, specify length $\geq 90\text{mm} \leq 6000\text{mm}$		3 842 990 355/ __mm
Profile 60x60H, M16/D17, specify length $\geq 165\text{mm} \leq 6000\text{mm}$		3 842 990 373/ __mm
Profile 60x60H, D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 990 357/ __mm
Profile 60x60H, D17/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 990 359/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

2

60x90H 

















Features:

- For heavy-duty applications such as heavy-duty supports, cantilevered gantries, and conveyor rails
- Often used in linear motion applications
- Has six 10mm T-slots

Non-Machined End Finish Options

	Part Number
Profile 60x90H, pkg. of 10, 6000mm long	3 842 315 124
Profile 60x90H, single, 6000mm long	3 842 507 124

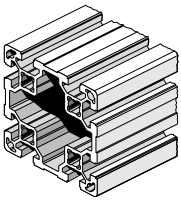
Machined Options

	End Finish	Part Number
Profile 60x90H, -/-, specify length $\geq 50\text{mm} \leq 6000\text{mm}$		3 842 990 450/ __mm
Profile 60x90H, M16/-, specify length $\geq 120\text{mm} \leq 6000\text{mm}$		3 842 990 453/ __mm
Profile 60x90H, D17/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 990 095/ __mm
Profile 60x90H, D17VS/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 990 096/ __mm
Profile 60x90H, M16/M16, specify length $\geq 240\text{mm} \leq 6000\text{mm}$		3 842 990 454/ __mm
Profile 60x90H, M16/F2, specify length $\geq 165\text{mm} \leq 6000\text{mm}$		3 842 990 472/ __mm
Profile 60x90H, M16/F1VS, specify length $\geq 165\text{mm} \leq 6000\text{mm}$		3 842 990 497/ __mm
Profile 60x90H, D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 990 097/ __mm
Profile 60x90H, D17/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 990 099/ __mm
Profile 60x90H, D17VS/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 990 098/ __mm
Profile 60x90H, F1/F1, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 990 464/ __mm
Profile 60x90H, F2/F2, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 990 478/ __mm
Profile 60x90H, F1VS/F1VS, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 990 487/ __mm
Profile 60x90H, F1VS/F1, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 990 481/ __mm

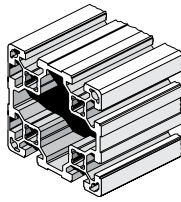
Please contact your distributor for other machining options.

Section 2: Profiles

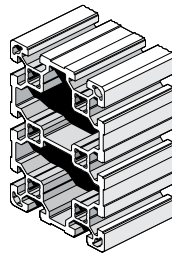
80-Series Profiles



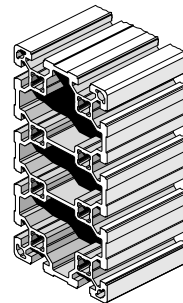
80x80
2-46



80x80 6S
2-47

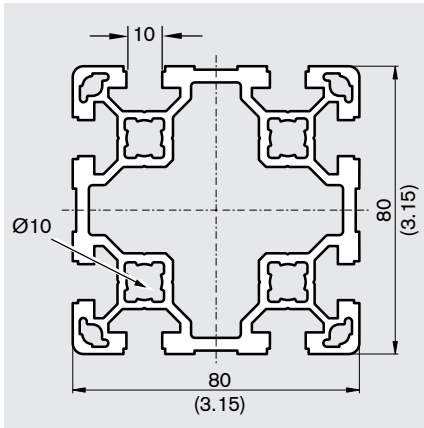


80x120
2-47



80x160
2-48

80x80



Features:

- Ideal for heavy-duty applications where added strength and additional T-slots are a must
- Has 8 10mm T-slots

Non-Machined End Finish Options

Profile 80x80, pkg. of 6, 6000mm long	3 842 529 347
Profile 80x80, single, 6000mm long	3 842 529 348

Part Number

3 842 529 347
3 842 529 348

Machined Options

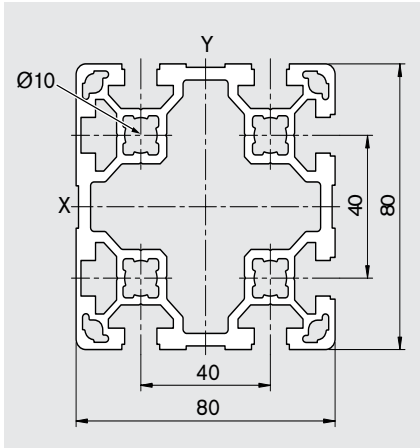
Machined Options	End Finish	Part Number
Profile 80x80, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$		3 842 993 133/ __mm
Profile 80x80, M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$		3 842 993 134/ __mm
Profile 80x80, D17/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 993 149/ __mm
Profile 80x80, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 993 147/ __mm
Profile 80x80, M12/D17, specify length $\geq 90\text{mm} \leq 6000\text{mm}$		3 842 993 148/ __mm
Profile 80x80, D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 993 150/ __mm
Profile 80x80, D17/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 993 151/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

2

80x80 6S 



Features:

- Ideal for heavy-duty applications where added strength and additional T-slots are a must
- Has six 10mm T-slots

Non-Machined End Finish Options

- Profile 80x80 6S, pkg. of 6, 6000mm long
- Profile 80x80 6S, single, 6000mm long

Part Number

- 3 842 536 481**
- 3 842 536 482**

Machined Options

Profile 80x80 6S, -/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$

End Finish

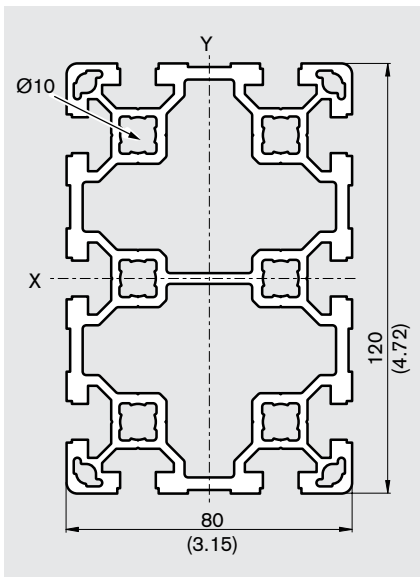


Part Number

3 842 993 423/ __mm

Please contact your distributor for other machining options.

80x120 



Features:

- Ideal for heavy-duty applications where added strength and additional T-slots are a must
- Has ten 10mm T-slots

Non-Machined End Finish Options

- Profile 80x120, pkg. of 4, 6000mm long
- Profile 80x120, single, 6000mm long

Part Number

- 3 842 537 828**
- 3 842 529 380**

Machined Options

Profile 80x120, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$

Profile 80x120, M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$

Profile 80x120, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$

Profile 80x120, D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$

Profile 80x120, D17VS/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$

End Finish



Part Number

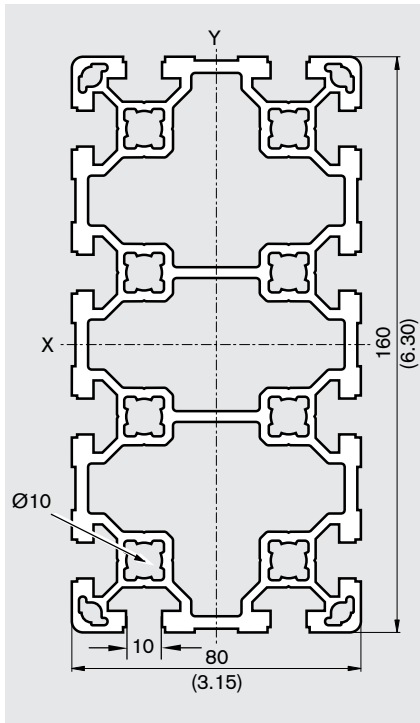
- 3 842 993 201/ __mm**
- 3 842 993 202/ __mm**
- 3 842 993 203/ __mm**
- 3 842 993 204/ __mm**
- 3 842 993 229/ __mm**

Please contact your distributor for other machining options.

Section 2: Profiles

80-Series Profiles

80x160



Features:

- Ideal for heavy-duty applications where added strength and additional T-slots are a must
- Has twelve 10mm T-slots

Non-Machined End Finish Options

Part Number

Profile 80x160, pkg. of 3, 6000mm long

3 842 529 349

Profile 80x160, single, 6000mm long

3 842 529 350

Machined Options

End Finish

Part Number

Profile 80x160, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$



3 842 993 127/ __mm

Profile 80x160, M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$



3 842 993 128/ __mm

Profile 80x160, D17/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$



3 842 993 154/ __mm

Profile 80x160, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$



3 842 993 152/ __mm

Profile 80x160, M12/D17, specify length $\geq 90\text{mm} \leq 6000\text{mm}$



3 842 993 153/ __mm

Profile 80x160, D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$



3 842 993 155/ __mm

Profile 80x160, D17/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$



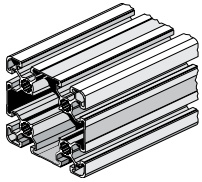
3 842 993 226/ __mm

Please contact your distributor for other machining options.

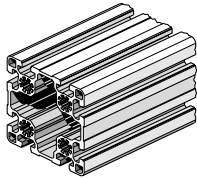
Section 2: Profiles

90-Series Profiles

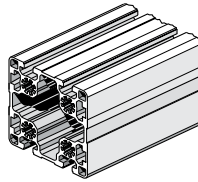
2



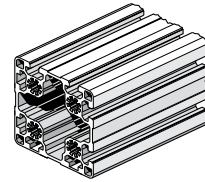
90x90 SL
2-49



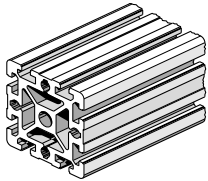
90x90
2-50



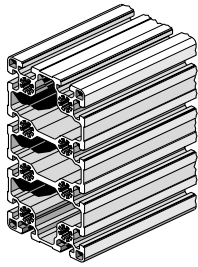
90x90 4S
2-50



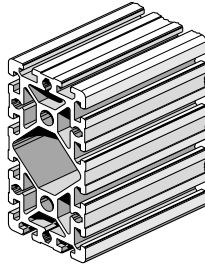
90x90 4VS
2-51



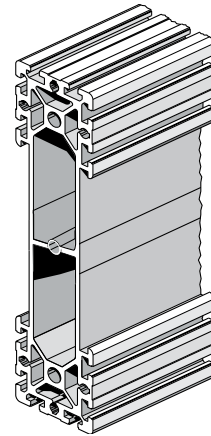
90x90H
2-51



90x180
2-52

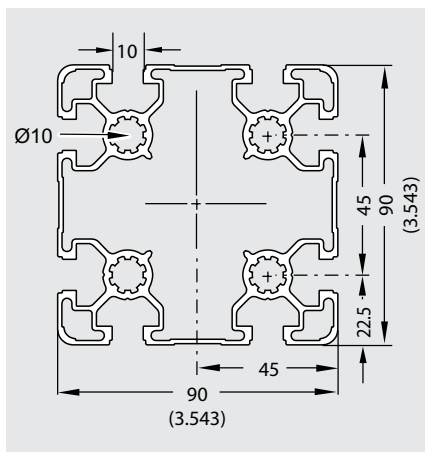


90x180H
2-53



90x360H
2-54

90x90 SL 



Features:

- Ideal for applications where reducing weight and additional T-slots are a must.
- Has eight 10mm T-slots

Non-Machined End Finish Options

- | | |
|--|----------------------|
| Profile 90x90 SL, pkg. of 6, 6000mm long | 3 842 537 100 |
| Profile 90x90 SL, single, 6000mm long | 3 842 537 101 |

Part Number

3 842 537 100
3 842 537 101

Machined Options

Profile 90x90, -/-, specify length $\geq 50\text{mm} \leq 6000\text{mm}$

End Finish



Part Number

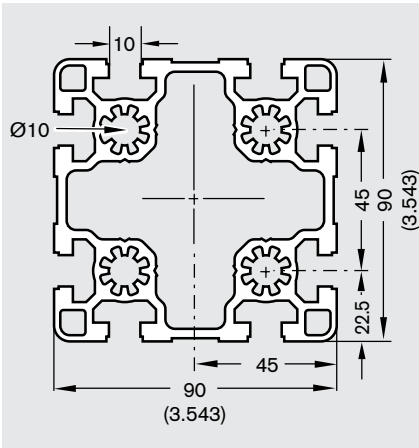
3 842 993 449/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

90-Series Profiles

90x90 ¹⁰ GoTo



Features:

- Ideal for heavy-duty applications where added strength and additional T-slots are a must
- Center area can be used as a conduit for air lines, or as a pressurized air manifold
- Has eight 10mm T-slots

Non-Machined End Finish Options

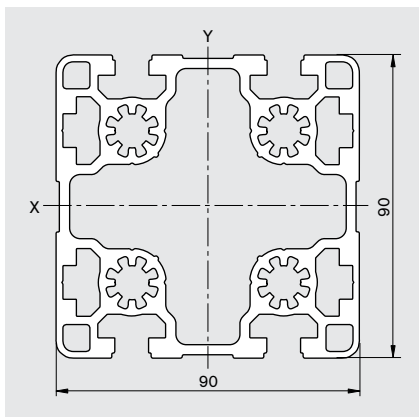
Non-Machined End Finish Options	Part Number
Profile 90x90, pkg. of 6, 5600mm mm long	3 842 509 658 <i>GoTo</i>
Profile 90x90, single, 5600mm mm long	3 842 509 659 <i>GoTo</i>

Machined Options

Machined Options	End Finish	Part Number
Profile 90x90, -/-, specify length $\geq 50\text{mm} \leq 5600\text{mm}$		3 842 992 415/ __mm
Profile 90x90, M12/-, specify length $\geq 55\text{mm} \leq 5600\text{mm}$		3 842 992 416/ __mm
Profile 90x90, D17/-, specify length $\geq 40\text{mm} \leq 5600\text{mm}$		3 842 992 417/ __mm
Profile 90x90, M12/M12, specify length $\geq 110\text{mm} \leq 5600\text{mm}$		3 842 992 422/ __mm
Profile 90x90, M12/D17, specify length $\geq 90\text{mm} \leq 5600\text{mm}$		3 842 992 423/ __mm
Profile 90x90, M12/D17LF, specify length $\geq 90\text{mm} \leq 5600\text{mm}$		3 842 992 419/ __mm
Profile 90x90, D17/D17, specify length $\geq 80\text{mm} \leq 5600\text{mm}$		3 842 992 420/ __mm
Profile 90x90, D17/D17VS, specify length $\geq 80\text{mm} \leq 5600\text{mm}$		3 842 992 421/ __mm
Profile 90x90, D17LF/D17LF, specify length $\geq 80\text{mm} \leq 5600\text{mm}$		3 842 992 418/ __mm

Please contact your distributor for other machining options.

90x90 4S ¹⁰



Features:

- Ideal for applications where smooth sides are required.
- Has four 10mm T-slots

Non-Machined End Finish Options

Non-Machined End Finish Options	Part Number
Profile 90x90 4S, pkg. of 6, 6000mm long	3 842 538 297
Profile 90x90 4S, single, 6000mm long	3 842 538 301

Machined Options

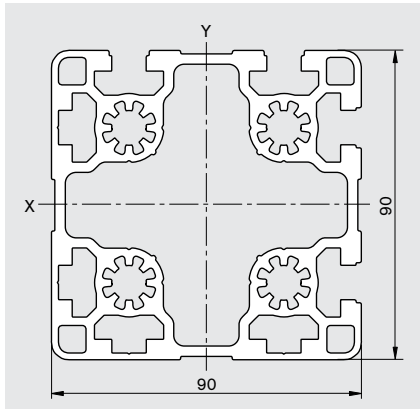
Machined Options	End Finish	Part Number
Profile 90x90 4S, -/-, specify length $\geq 50\text{mm} \leq 6000\text{mm}$		3 842 993 628/ __mm

Please contact your distributor for other machining options.



Section 2: Profiles

90x90 4VS ¹⁰



Features:

- Ideal for applications where smooth sides are required.
- Has four 10mm T-slots

Non-Machined End Finish Options

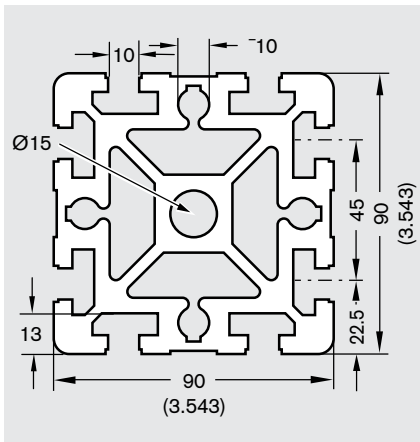
	Part Number
Profile 90x90 4VS, pkg. of 6, 6000mm long	3 842 538 296
Profile 90x90 4VS, single, 6000mm long	3 842 538 300

Machined Options

	End Finish	Part Number
Profile 90x90 4VS, -/-, specify length $\geq 50\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	3 842 993 621/ __mm

Please contact your distributor for other machining options.

90x90H ¹⁰



Features:

- Ideal for heavy-duty applications where added strength and additional T-slots are a must
- Has eight 10mm T-slots

Non-Machined End Finish Options

	Part Number
Profile 90x90H, pkg. of 6, 6000mm long	3 842 315 125
Profile 90x90H, single, 6000mm long	3 842 507 715

Machined Options

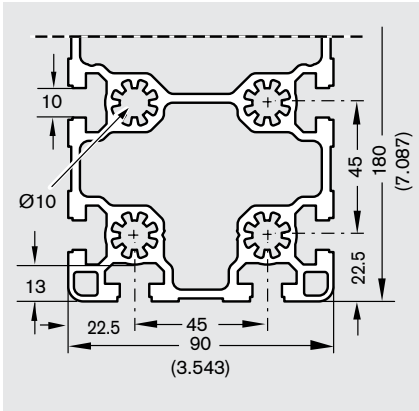
	End Finish	Part Number
Profile 90x90H, -/-, specify length $\geq 50\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	3 842 990 500/ __mm
Profile 90x90H, M16/-, specify length $\geq 120\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	3 842 990 501/ __mm
Profile 90x90H, M16-D22/-, specify length $\geq 120\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	3 842 992 373/ __mm
Profile 90x90H, D17/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	3 842 990 092/ __mm
Profile 90x90H, D17-D26/-, specify length $\geq 80\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	8 981 992 294/ __mm
Profile 90x90H, D20-D31/-, specify length $\geq 95\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	8 981 992 295/ __mm
Profile 90x90H, F2/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	3 842 990 505/ __mm
Profile 90x90H, M16/M16, specify length $\geq 240\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	3 842 990 502/ __mm
Profile 90x90H, M16/D17, specify length $\geq 160\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	3 842 992 961/ __mm
Profile 90x90H, D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	3 842 990 093/ __mm
Profile 90x90H, D17/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	3 842 990 094/ __mm
Profile 90x90H, D17/F2, specify length $\geq 95\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	3 842 992 374/ __mm
Profile 90x90H, F2/F2, specify length $\geq 110\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	3 842 990 507/ __mm
Profile 90x90H, M16-D22/M16-D22, specify length $\geq 240\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	3 842 993 083/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

90-Series Profiles

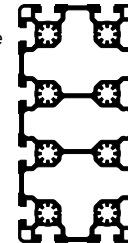
90x180



Features:

- Ideal for heavy-duty applications where added strength and additional T-slots are a must
- Center areas can be used as conduits for air lines, or as pressurized air manifolds
- Has twelve 10mm T-slots

End view of complete profile



Non-Machined End Finish Options

Part Number

Profile 90x180, pkg. of 3, 5600mm long

3 842 516 015









Profile 90x180, single, 5600mm long

3 842 516 014

Machined Options

End Finish

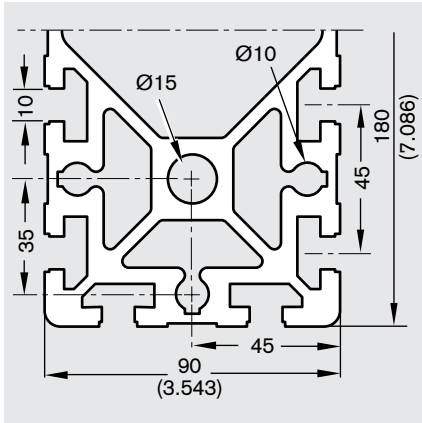
Part Number

Profile 90x180, -/-, specify length $\geq 50\text{mm} \leq 5600\text{mm}$		3 842 992 857/ __mm
Profile 90x180, M12/-, specify length $\geq 55\text{mm} \leq 5600\text{mm}$		3 842 992 858/ __mm
Profile 90x180, M12/M12, specify length $\geq 110\text{mm} \leq 5600\text{mm}$		3 842 992 859/ __mm
Profile 90x180, M12/D17, specify length $\geq 90\text{mm} \leq 5600\text{mm}$		3 842 992 863/ __mm
Profile 90x180, M12/D17LF, specify length $\geq 90\text{mm} \leq 5600\text{mm}$		3 842 992 860/ __mm
Profile 90x180, D17/D17, specify length $\geq 80\text{mm} \leq 5600\text{mm}$		3 842 992 862/ __mm
Profile 90x180, D17LF/D17LF, specify length $\geq 80\text{mm} \leq 5600\text{mm}$		3 842 992 861/ __mm
Profile 90x180, D17VS/D17VS, specify length $\geq 80\text{mm} \leq 5600\text{mm}$		3 842 992 864/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

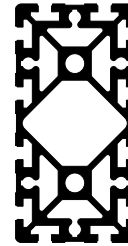
90x180H 



Features:

- Ideal for heavy-duty applications where added strength and additional T-slots are a must
- Center area can be used as a conduit for air lines, or as a pressurized air manifold
- Has twelve 10mm T-slots

End view of complete profile












Non-Machined End Finish Options

- Profile 90x180H, pkg. of 3, 5600mm long
- Profile 90x180H, single, 5600mm long

Part Number

- 3 842 509 188**
- 3 842 509 203**

Machined Options

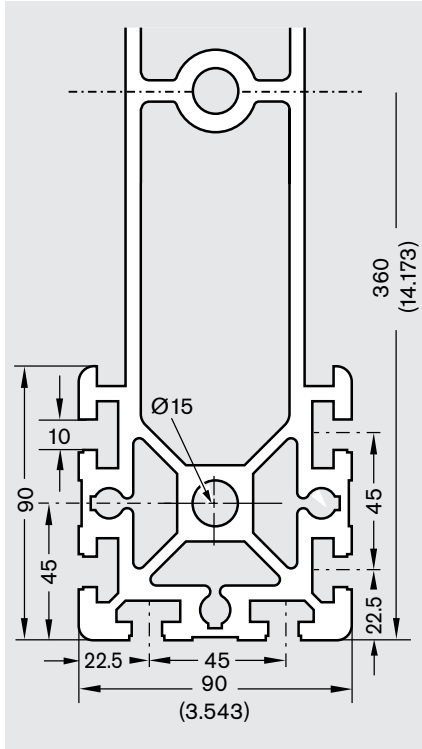
Machined Options	End Finish	Part Number
Profile 90x180H -/-, specify length $\geq 50\text{mm} \leq 5600\text{mm}$		3 842 990 416/ _mm
Profile 90x180H M16/-, specify length $\geq 120\text{mm} \leq 5600\text{mm}$		3 842 990 417/ _mm
Profile 90x180H M16-D22/-, specify length $\geq 120\text{mm} \leq 5600\text{mm}$		3 842 992 409/ _mm
Profile 90x180H M16/M16, specify length $\geq 240\text{mm} \leq 5600\text{mm}$		3 842 990 418/ _mm
Profile 90x180H M16/F2, specify length $\geq 180\text{mm} \leq 5600\text{mm}$		3 842 990 419/ _mm
Profile 90x180H D17LF/D17LF, specify length $\geq 80\text{mm} \leq 5600\text{mm}$		3 842 992 898/ _mm
Profile 90x180H D17LFS/D17LFS, specify length $\geq 80\text{mm} \leq 5600\text{mm}$		3 842 993 081/ _mm
Profile 90x180H D17VS/D17VS, specify length $\geq 80\text{mm} \leq 5600\text{mm}$		3 842 992 378/ _mm
Profile 90x180H F2/F2, specify length $\geq 110\text{mm} \leq 5600\text{mm}$		3 842 990 421/ _mm

Please contact your distributor for other machining options.

Section 2: Profiles

90-Series Profiles

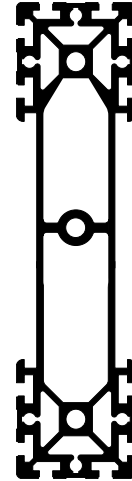
90x360H



Features:







- Heaviest-duty profile available
- Typical applications include very heavy-duty machine frames where mass and strength are critical, cartesian/gantry robot frames, and very heavy-duty support columns
- Has twelve 10mm T-slots

End view of complete profile



2

Machined Options

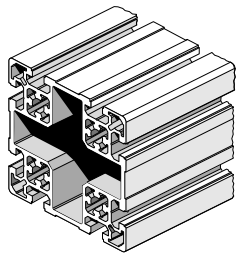
Machined Options	End Finish	Part Number
Profile 90x360H, -/-, specify length $\geq 50\text{mm} \leq 6000\text{mm}$		3 842 993 434/ __mm
Profile 90x360H, M16/M16, specify length $\geq 240\text{mm} \leq 6000\text{mm}$		3 842 993 435/ __mm
Profile 90x360H, F2/F2, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 993 436/ __mm
Profile 90x360H, M16/-, specify length $\geq 240\text{mm} \leq 6000\text{mm}$		3 842 990 551/ __mm
Profile 90x360H, M16/D22, specify length $\geq 120\text{mm} \leq 6000\text{mm}$		3 842 992 379/ __mm
Profile 90x360H, M16-D22/M16-D22, specify length $\geq 240\text{mm} \leq 6000\text{mm}$		3 842 992 380/ __mm

Please contact your distributor for other machining options.

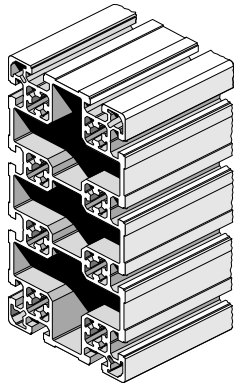
Section 2: Profiles

100-Series Profiles

2

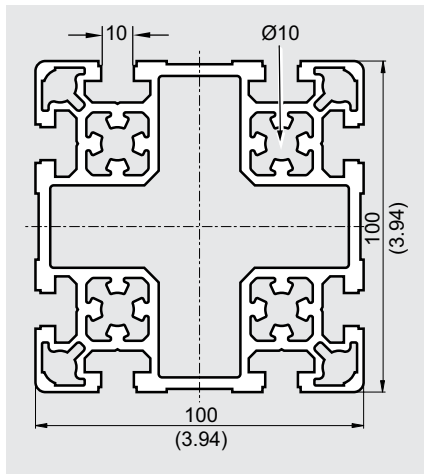


100x100
2-55



100x200
2-56

100x100



Features:

- Ideal for heavy-duty applications where added strength and additional T-slots are a must
- Has eight 10mm T-slots

Non-Machined End Finish Options

Non-Machined End Finish Options	Part Number
Profile 100x100, pkg. of 6, 6000mm long	3 842 529 355
Profile 100x100, single, 6000mm long	3 842 529 356

Part Number

3 842 529 355
3 842 529 356

Machined Options

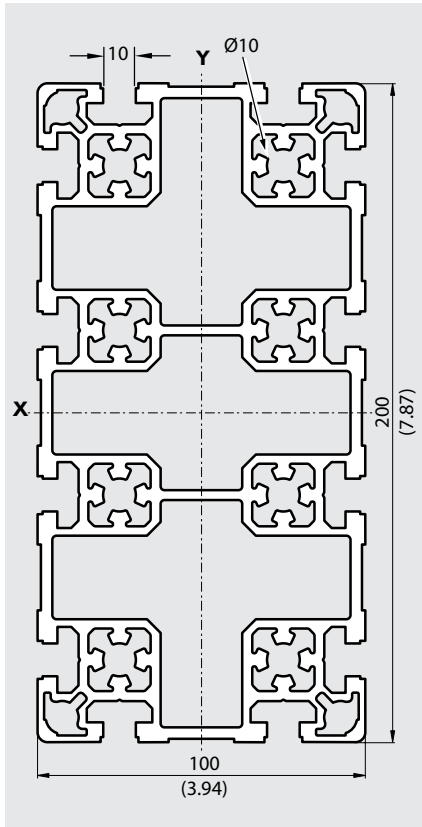
Machined Options	End Finish	Part Number
Profile 100x100, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$		3 842 993 171/ __mm
Profile 100x100, M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$		3 842 993 172/ __mm
Profile 100x100, D17/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 993 175/ __mm
Profile 100x100, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$		3 842 993 173/ __mm
Profile 100x100, M12/D17, specify length $\geq 90\text{mm} \leq 6000\text{mm}$		3 842 993 174/ __mm
Profile 100x100, D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 993 176/ __mm
Profile 100x100, D17/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$		3 842 993 177/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

100-Series Profiles

100x200



Features:

- Ideal for heavy-duty applications where added strength and additional T-slots are a must
- Has twelve 10mm T-slots

Non-Machined End Finish Options

Part Number

Profile 100x200, pkg. of 3, 6000mm long

3 842 529 357

Profile 100x200, single, 6000mm long

3 842 529 358

Machined Options

End Finish

Part Number

Profile 100x200, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$



3 842 993 178/ __mm

Profile 100x200, M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$



3 842 993 179/ __mm

Profile 100x200, D17/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$



3 842 993 182/ __mm

Profile 100x200, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$



3 842 993 180/ __mm

Profile 100x200, M12/D17, specify length $\geq 90\text{mm} \leq 6000\text{mm}$



3 842 993 181/ __mm

Profile 100x200, D17/D17, specify length $\geq 80\text{mm} \leq 6000\text{mm}$



3 842 993 183/ __mm

Profile 100x200, D17VS/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$



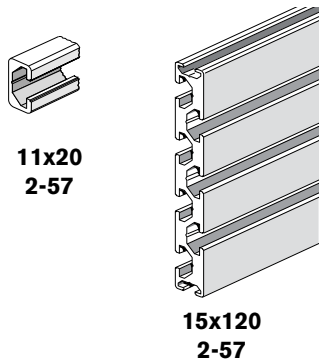
3 842 993 227/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

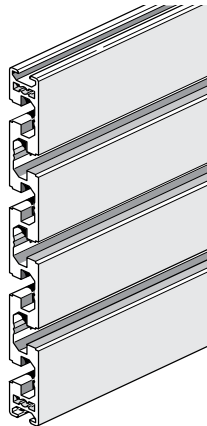
Specialty Profiles

2



11x20
2-57

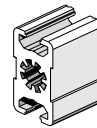
15x120
2-57



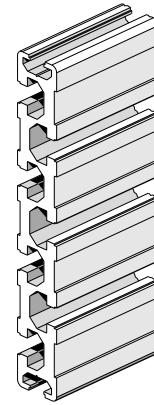
15x180
2-57



15x22.5
2-58

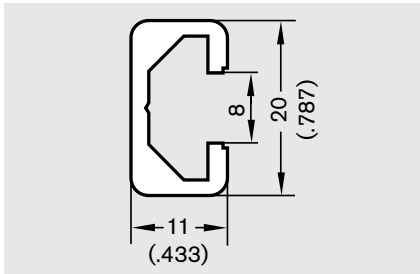


22.5x45
2-58



22.5x180
2-59

11x20



Features:

- Ideal for mounting lightweight components such as switch boxes, valves, and limit switches
- Use to construct economical, space-saving safety guard door frames
- Has one 8mm T-slot

Non-Machined End Finish Options

Profile 11x20, pkg. of 10, 2000mm long	
Profile 11x20, single, 2000mm long	

Part Number

3 842 513 581
3 842 513 582

Machined Options

Profile 11x20, -/-, specify length $\geq 30\text{mm} \leq 2000\text{mm}$	
Profile 11x20, D11/-, specify length $\geq 30\text{mm} \leq 2000\text{mm}$	
Profile 11x20, D11/D11, specify length $\geq 60\text{mm} \leq 2000\text{mm}$	

End Finish

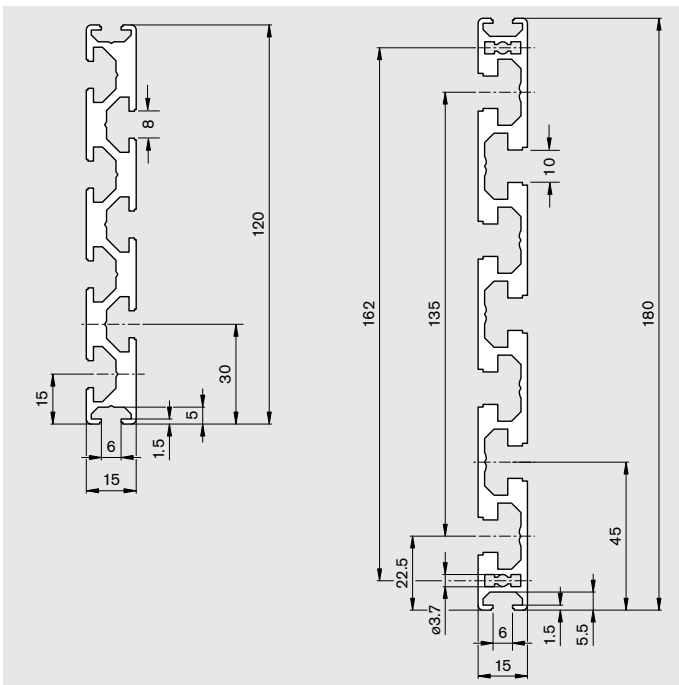
Part Number

3 842 992 476/ __mm
3 842 992 477/ __mm
3 842 992 478/ __mm

Please contact your distributor for other machining options.

15x120

15x180



15x120

Non-Machined End Finish Options

Profile 15x120, pkg. of 10, 3000mm long	
Profile 15x120, single, 3000mm long	

Part Number

3 842 537 821
3 842 526 818

Machined Options

Profile 15x120, -/-, specify length $\geq 50\text{mm} \leq 3000\text{mm}$	
---	--

Part Number

3 842 993 078/ __mm

Please contact your distributor for other machining options.

15x180

Non-Machined End Finish Options

Profile 15x180, pkg. of 6, 5600mm long	
Profile 15x180, single, 5600mm long	

Part Number

3 842 526 821
3 842 526 820

Machined Options

Profile 15x180, -/-, specify length $\geq 50\text{mm} \leq 5600\text{mm}$	
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Part Number

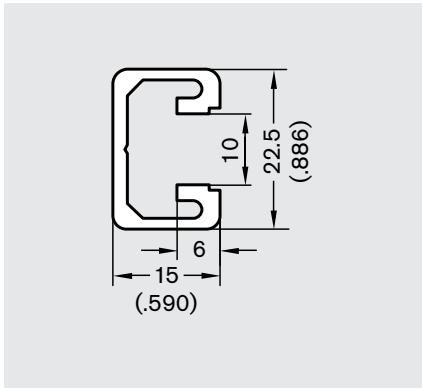
3 842 993 079/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

Specialty Profiles

15x22.5 ¹⁰



Features:

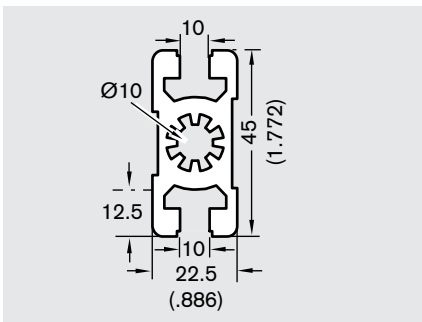
- Ideal for mounting light- to medium-weight components such as switch boxes, valves, and limit switches
- Use to construct economical, space-saving safety guard door frames
- Has one 10mm T-slot

Non-Machined End Finish Options	Part Number
Profile 15x22.5, pkg. of 10, 2000mm long	3 842 513 576
Profile 15x22.5, single, 2000mm long	3 842 513 577

Machined Options	End Finish	Part Number
Profile 15x22.5, -/-, specify length $\geq 30\text{mm} \leq 2000\text{mm}$	<input type="checkbox"/>	3 842 992 473/ __mm
Profile 15x22.5, D17/-, specify length $\geq 40\text{mm} \leq 2000\text{mm}$	<input checked="" type="checkbox"/>	3 842 992 474/ __mm
Profile 15x22.5, D17/D17, specify length $\geq 80\text{mm} \leq 2000\text{mm}$	<input checked="" type="checkbox"/>	3 842 992 475/ __mm

Please contact your distributor for other machining options.

22.5x45 ¹⁰



Features:

- Uses include rails and panel mounting in partitions
- Has two 10mm T-slots


Non-Machined End Finish Options	Part Number
Profile 22.5x45, pkg. of 24, 6000mm long	3 842 537 812
Profile 22.5x45, single, 6000mm long	3 842 502 695

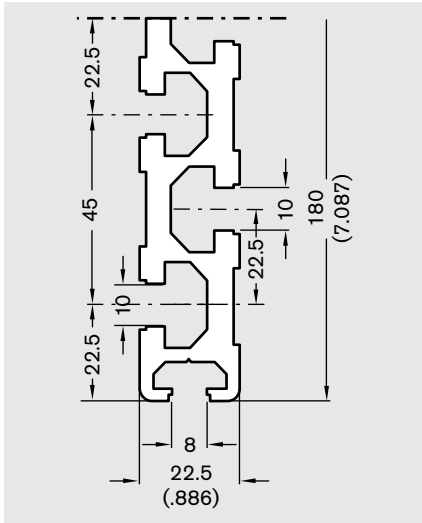
Machined Options	End Finish	Part Number
Profile 22.5x45, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	3 842 990 292/ __mm
Profile 22.5x45, M12/-, specify length $\geq 55\text{mm} \leq 6000\text{mm}$	<input checked="" type="checkbox"/>	3 842 990 087/ __mm
Profile 22.5x45, D17VS/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$	<input checked="" type="checkbox"/>	3 842 990 088/ __mm
Profile 22.5x45, M12/M12, specify length $\geq 110\text{mm} \leq 6000\text{mm}$	<input checked="" type="checkbox"/>	3 842 990 090/ __mm
Profile 22.5x45, M12/D17VS, specify length $\geq 90\text{mm} \leq 6000\text{mm}$	<input checked="" type="checkbox"/>	3 842 990 089/ __mm
Profile 22.5x45, D17VS/D17VS, specify length $\geq 80\text{mm} \leq 6000\text{mm}$	<input checked="" type="checkbox"/>	3 842 990 091/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

2

22.5x180 



Features:

- Ideal for fixturing, end of arm tooling applications, and other applications requiring multiple T-slots
- Can be used as a carriage profile or bearing block header for linear motion applications
- Has seven 10mm T-slots on the long sides and an 8mm T-slot on each short side

Non-Machined End Finish Options




Part Number

Profile 22.5x180, pkg. of 6, 5600mm long	3 842 509 179
Profile 22.5x180, single, 5600mm long	3 842 509 206

Machined Options

End Finish

Part Number

Profile 22.5x180, -/-, specify length $\geq 50\text{mm} \leq 5600\text{mm}$		3 842 990 345/ __mm
Profile 22.5x180, D28/-, specify length $\geq 55\text{mm} \leq 5600\text{mm}$		3 842 990 346/ __mm
Profile 22.5x180, D28/D28, specify length $\geq 110\text{mm} \leq 5600\text{mm}$		3 842 990 347/ __mm

Please contact your distributor for other machining options.

Section 2: Profiles

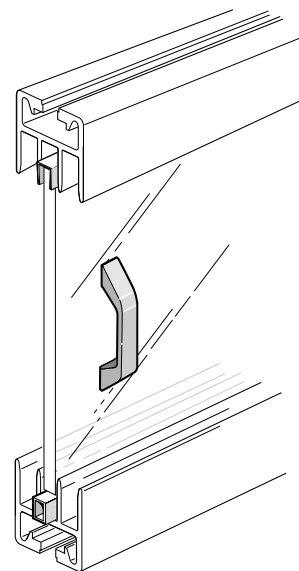
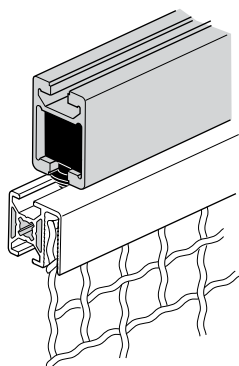
Specialty Profiles

Bosch Rexroth offers a wide variety of other specialty profiles, specially designed for specific applications such as enclosures, guarding, conveyors, and linear motion. Some of the most popular types of specialty profiles are highlighted below.

Refer to the appropriate section of this catalog for additional information.

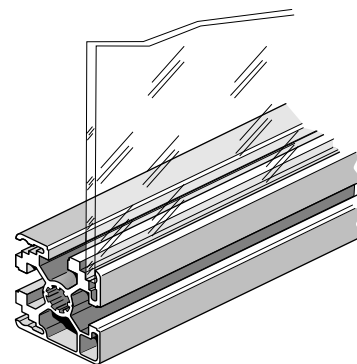
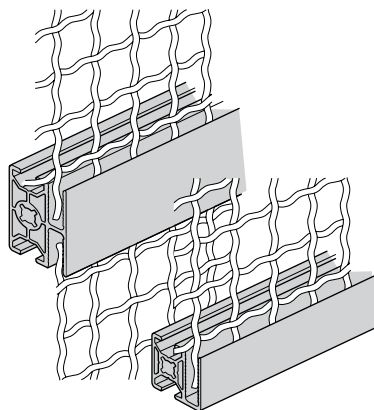
Aluminum Sliding Door Profiles

Special profiles can be used to create a variety of door styles, including sliding and overhead rolling doors. See Section 5, “Doors and Door Components” for these and other door profiles and hardware.



EcoSafe™ Guarding and Enclosures

Whether you are setting up perimeter guarding or a custom machine enclosure, Bosch Rexroth offers the profiles, connectors, and accessories you need. See Section 6, “EcoSafe Guarding and Machine/Safety Enclosures” for further details.

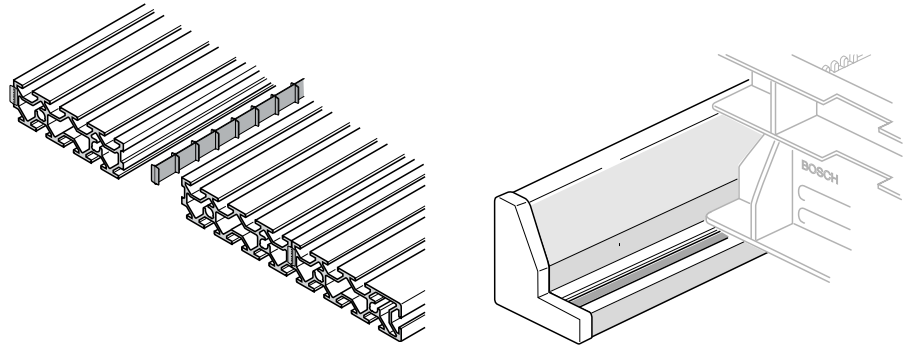


Section 2: Profiles

2

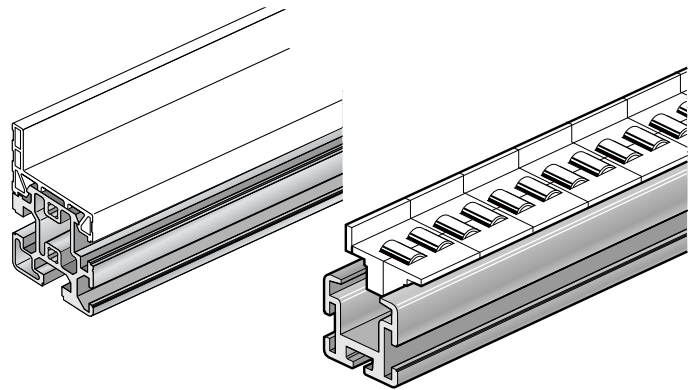
Fixture Plates, Tray Profiles, and Other Workstation Components

There are a variety of profiles and components available to create and customize workstations for virtually any task. From fixture plates to dispenser bins and overhead tool rails to work trays, Bosch Rexroth offers virtually endless possibilities. See Section 11, "Ergonomic Workplace Equipment".

**EcoFlow™ Roller Profiles**

Transporting and positioning workpieces at and between workstations has never been easier, with a full range of profiles and accessories designed to maximize ergonomic workpiece flow.

See Section 10, "EcoFlow Conveyor and Transport Components".



Section 3: Profile Connectors

Overview

One of the greatest strengths of the Bosch Rexroth structural aluminum framing system is the wide choice of connection methods, and the ability to provide the right connection regardless of whether your concern is strength, flexibility, or aesthetics, or a combination of all those advantages.

New! *designLINE* - quality and performance with appeal

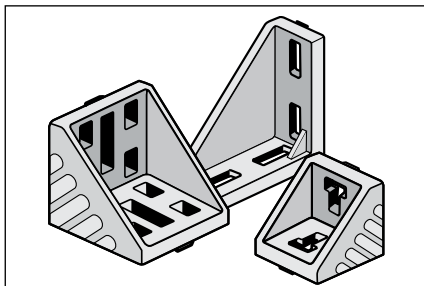
Need a way to make your already appealing structures even more attractive? Do you value an attractive design?

Then look for the new *designLINE* versions of our standard connectors throughout this section.

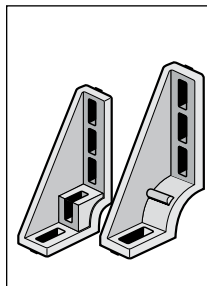
A new surface treatment with special silver paint ensures that *designLINE* components seamlessly match the aluminum frame. The paint is scratch proof, preserving the connector's ESD compatibility.

For added convenience all *designLINE* connectors are available as a kit with fasteners and caps (where provided).

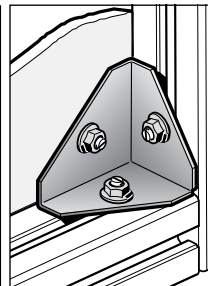
90° Right Angle Connectors



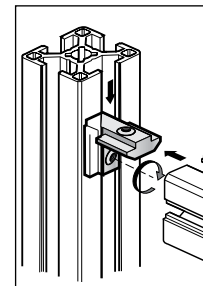
Die-Cast Gussets
 20-Series 3-3 • 30-Series 3-4
 40-Series 3-5 • 45-Series 3-6
 50-Series 3-7 • 60-Series 3-8
 80-Series 3-8 • 90-Series 3-9
 100-Series 3-9



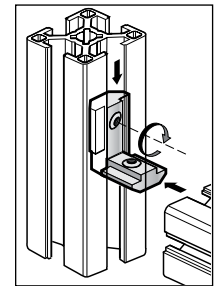
Die-Cast Foundation Brackets
 3-10 & 3-11



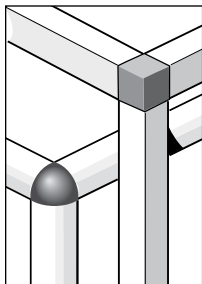
42x60 Sheet Metal Gusset
 3-12



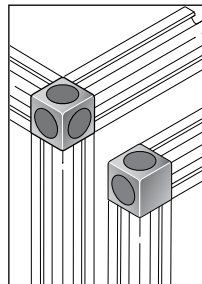
Inside-to-Outside Gussets
 3-12



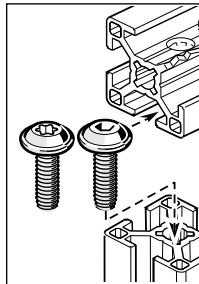
Inside-to-Inside Gussets
 3-13



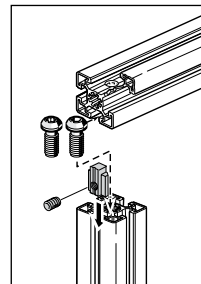
Corner Brackets
 3-14



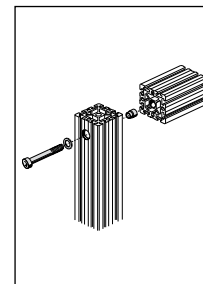
Corner Cube Kits
 3-15



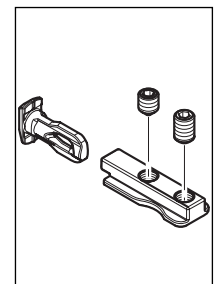
S6, S8, & S12 Self-Tapping Connection Screws
 3-16



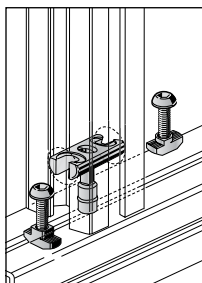
M12 Connection Screws and Anti-Rotation T-Blocks
 3-17



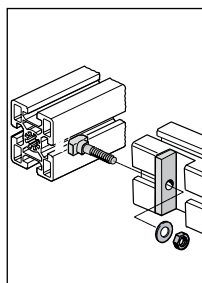
M16 Connection Screw
 3-18



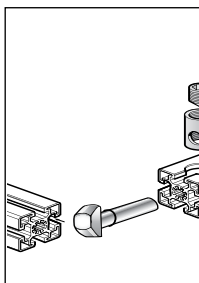
Tension Connector
 3-18



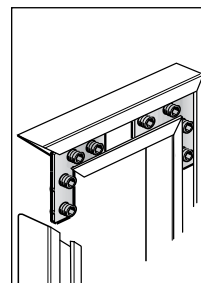
Bolt Connector Kits
 3-19 & 3-20



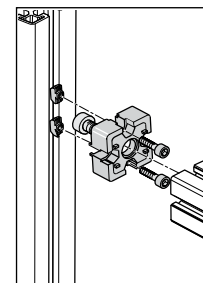
Cross Connector Kit
 3-20



Quick Connectors/Rigid
 3-21



Mitered Corner Connectors
 3-22

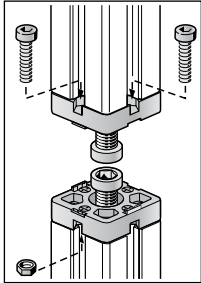


T-Connector Kits
 3-23

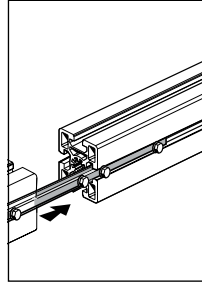
Section 3: Profile Connectors

3

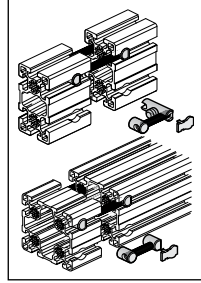
45° Angle Connectors



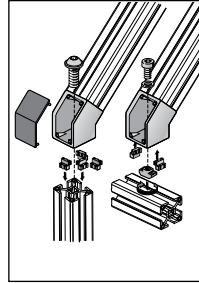
End Connector
Kits
3-24



8mm & 10mm
Connection Link
Kits
3-25

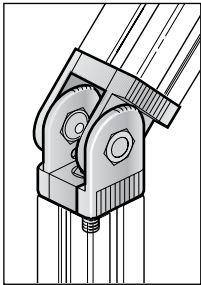


End-to-End Bolt
Connector Kits
3-25

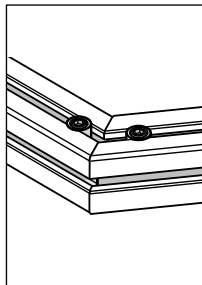


45° Angle Con-
nector
Kits – 30mm,
40mm & 45mm
3-26 & 3-27

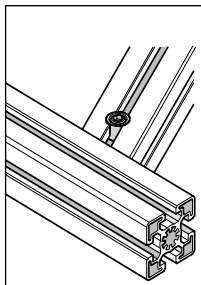
Multi-Angle Connectors



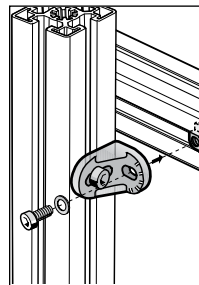
Multi-Angle Con-
nector Kits
3-28 & 3-29



End-to-End Vari-
able Angle Bolt
Connector
3-30

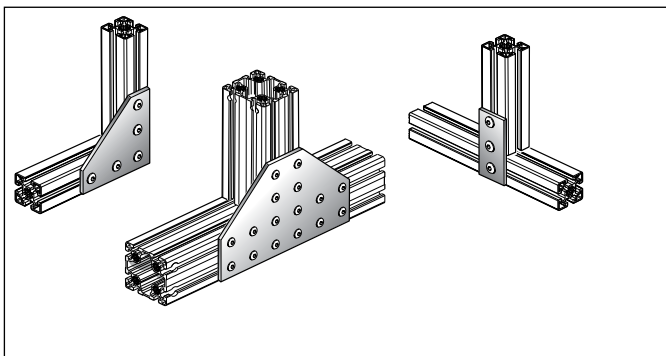


End-to-Side Vari-
able Angle Bolt
Connector
3-31



Adjustable Angle
Gusset Kits
3-32

Joining Plates



Corner, T-Junction, Rectangular, and
Cross Junction Joining Plates
3-33 to 3-35

Section 3: Profile Connectors

Die-Cast Gussets and Foundation Brackets

Die-cast aluminum gussets are available for connecting a wide range of profile sizes and applications, from 20x20 to 100x100, as well as special "foundation bracket" sizes such as 30x120 and 45x180. Elongated holes allow gussets to be adjusted for position on the profile, while guide tabs assure proper alignment of gusset in the profile's T-slot. Tabs can be easily removed with a flat-tip screwdriver for cross-connection of profiles. All gussets are designed to accept optional cover caps.

Features:

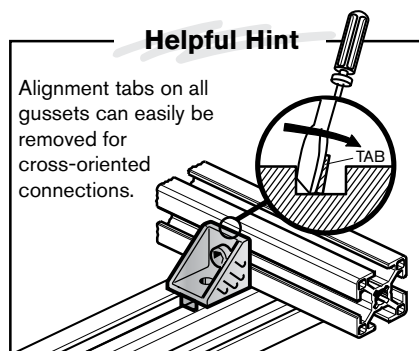
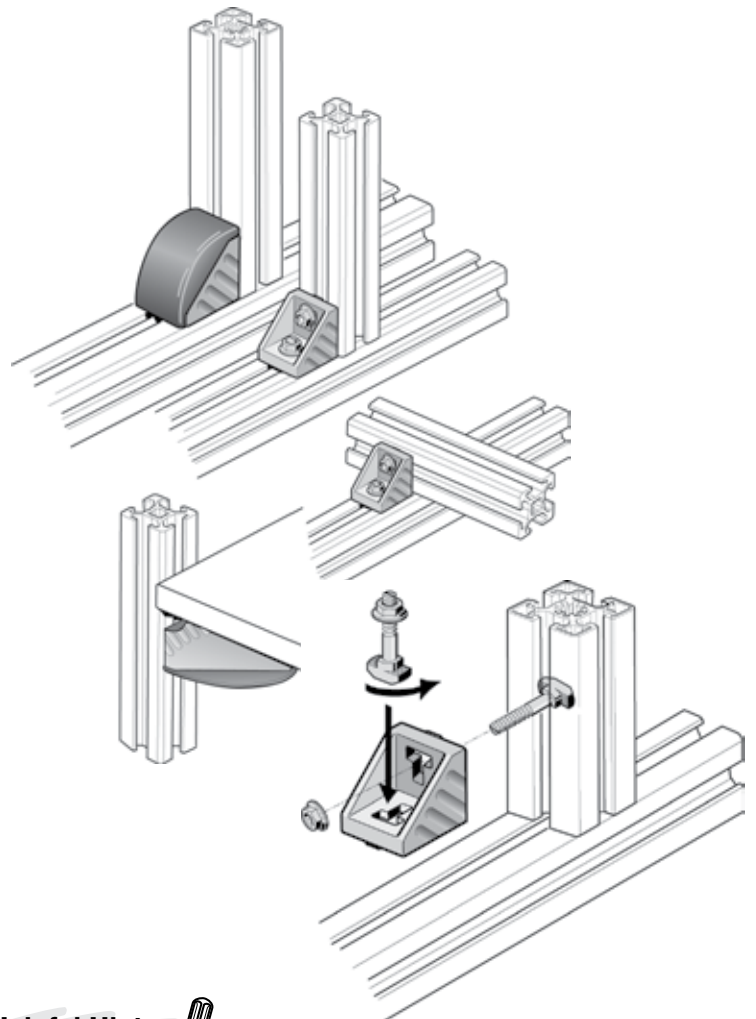
- T-slot alignment tabs for easy positioning and reduced assembly time
- Clean, professional appearance
- Connects anywhere on the profile's T-slot
- Gusset and connecting hardware available as separate components
- Close tolerances on gusset edges provide flush, tight fit
- Alignment tabs can easily be removed for cross-oriented connections
- Optional cover caps available

Machining required:

- None

Material:

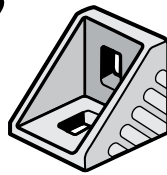
- Gusset: die-cast aluminum
- Fasteners: zinc-plated steel
- Cover cap: black polyamide 6



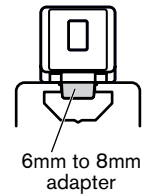
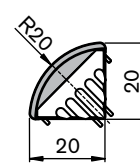
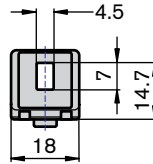
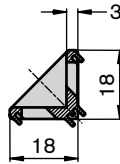
Section 3: Profile Connectors


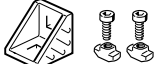


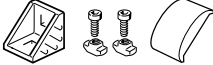
20x20 Gusset *GoTo*

6 8



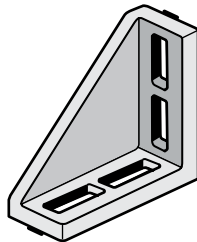
M4 x 8



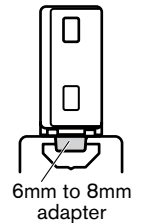
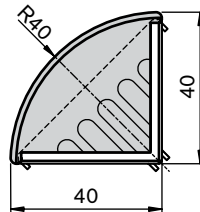
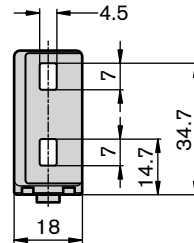
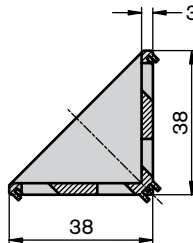
Description	Lot Size	Part Number
20x20 gusset only 	1	3 842 523 508 <i>GoTo</i>
6 20x20 gusset with fasteners 	1	3 842 523 511 <i>GoTo</i>
20x20 round cover cap 	1	3 842 523 513
6 → 8 Plastic adapter 	1	3 842 523 516
20X20 gusset kit with fastener (includes cover cap) designLINE 	1	3 842 538 707


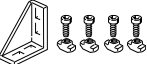



20x40 Gusset

6 8



M4 x 8



Description	Lot Size	Part Number
20x40 gusset only 	1	3 842 523 517
6 20x40 gusset with fasteners 	1	3 842 523 520
20x40 gusset kit with fasteners (includes cover cap) designLINE 	1	3 842 538 708
20x40 round cover cap 	1	3 842 523 522
6 → 8 Plastic adapter 	1	3 842 523 516

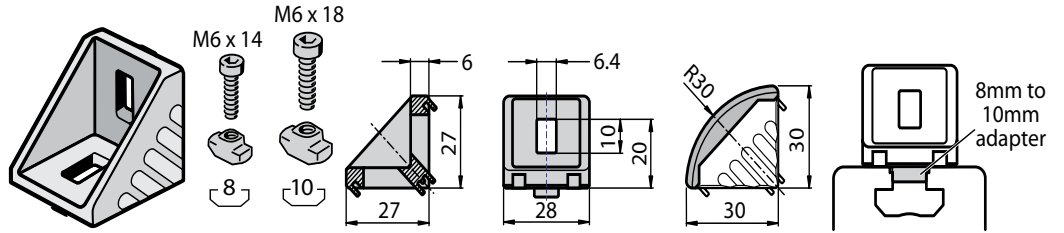
GoTo boschrexroth-us.com/framing to get these in stock items **FAST** from your local distributor

Section 3: Profile Connectors

Gussets


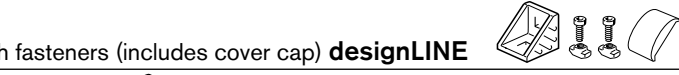
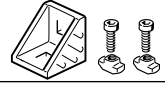
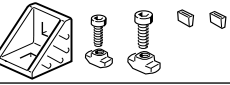
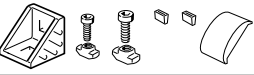




30x30 Gusset *GoTo*

8 10



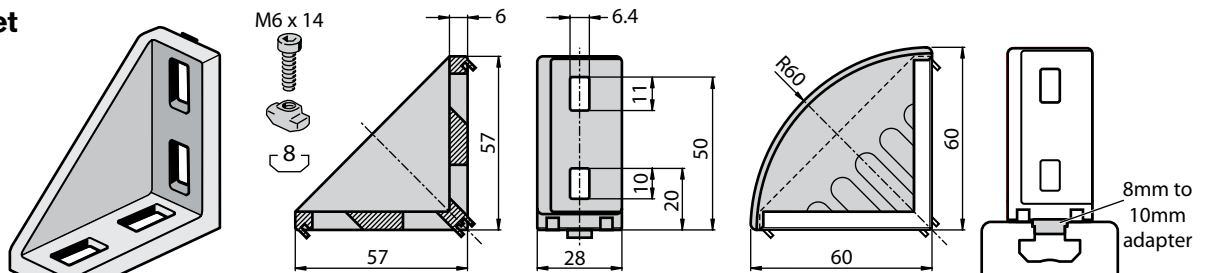
Description

Lot Size Part Number

30x30 gusset only 	1	3 842 523 525 <i>GoTo</i>
30x30 gusset kit with fasteners (includes cover cap) designLINE 	1	3 842 538 709
30x30 gusset with fasteners 	1	3 842 523 528 <i>GoTo</i>
30x30 gusset with fasteners 	1	3 842 523 530 <i>GoTo</i>
30x30 gusset kit (includes cover cap) designLINE 	1	3 842 538 711
30x30 gusset with fasteners for 10mm T-slots 	1	3 842 523 532
30x30 gusset kit with fasteners for 10mm T-slots (includes cover cap) designLINE 	1	3 842 538 710
30x30 round cover cap 	1	3 842 523 534
Plastic adapter 	1	3 842 523 537


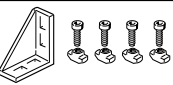



30x60 Gusset

8 10



Description

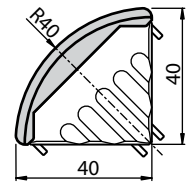
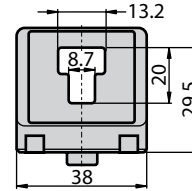
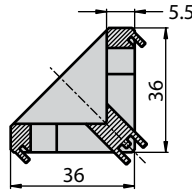
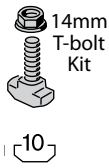
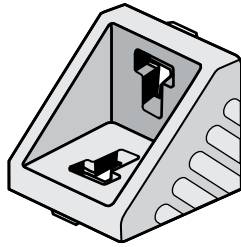
Lot Size Part Number

30x60 gusset only 	1	3 842 523 538
30x60 gusset with fasteners 	1	3 842 523 541
30x60 gusset kit with fasteners (includes cover cap) designLINE 	1	3 842 538 712
30x60 round cover cap 	1	3 842 523 543
Plastic adapter 	1	3 842 523 537

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Section 3: Profile Connectors





40x40 Gusset



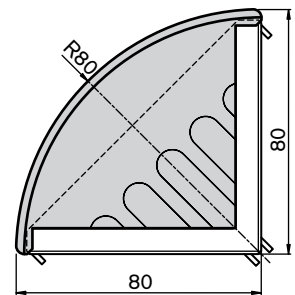
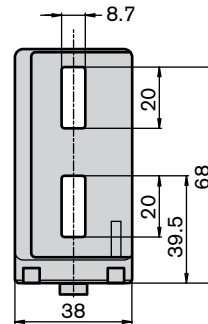
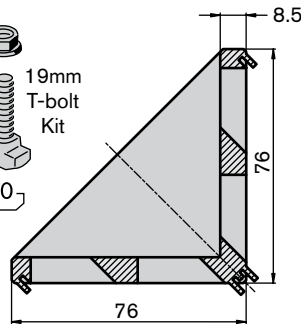
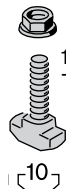
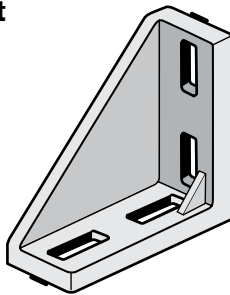
Description

Lot Size

Part Number

40x40 gusset only 	1	3 842 528 967
40x40 gusset with fasteners 	1	3 842 529 383
40x40 gusset kit with fasteners (includes cover cap) designLINE 	1	3 842 538 716
40x40 round cover cap 	1	3 842 529 007


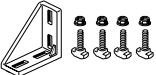
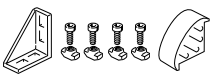

40x80 Gusset



Description

Lot Size

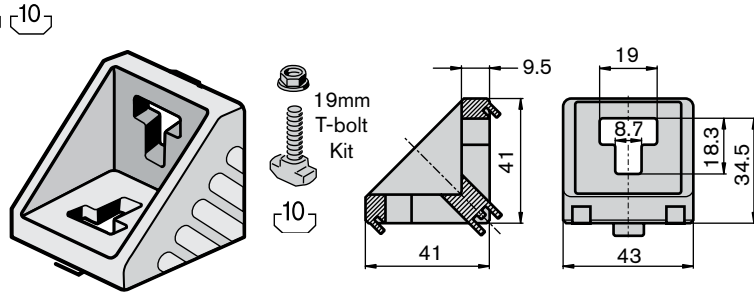
Part Number

40x80 gusset only 	1	3 842 529 005
40x80 gusset with fasteners 	1	3 842 529 386
40x80 gusset kit with fasteners (includes cover cap) designLINE 	1	3 842 538 717
40x80 round cover cap 	1	3 842 529 008

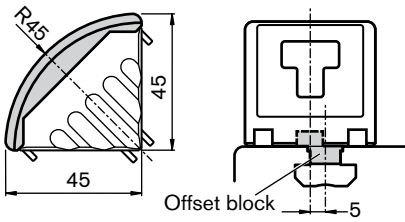
Section 3: Profile Connectors

Gussets


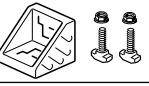
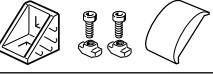


45x45 Gusset *GoTo*



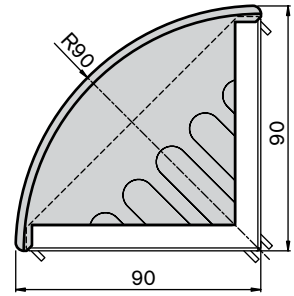
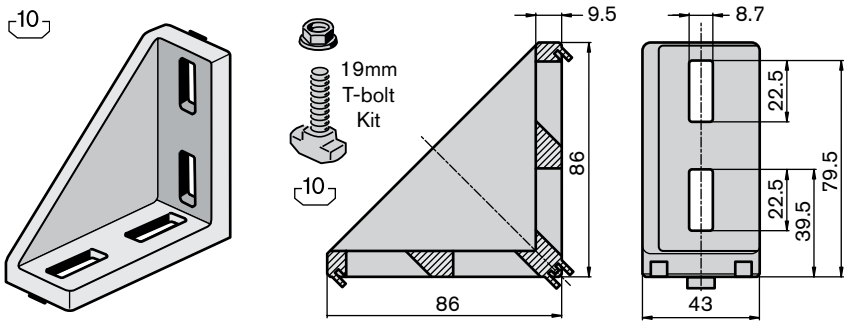
When connecting two profiles with 60mm side dimensions, order offset blocks to help align gusset with outer edge of profiles.


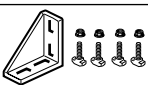
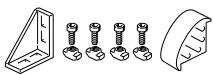



3

Description	Lot Size	Part Number
45x45 gusset only 	1	3 842 523 558 <i>GoTo</i>
45x45 gusset with fasteners 	1	3 842 523 561 <i>GoTo</i>
45x45 gusset kit with fasteners (includes cover cap) designLINE 	1	3 842 538 719
45x45 round cover cap 	1	3 842 523 563 <i>GoTo</i>
Offset block 10mm T-slot-5mm offset 	1	3 842 523 593

45x90 Gusset

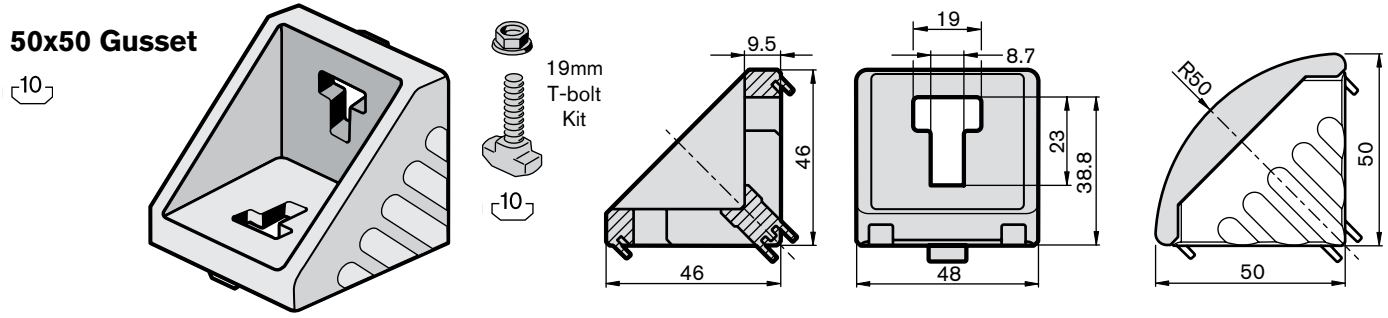



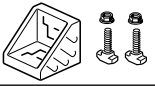


Description	Lot Size	Part Number
45x90 gusset only 	1	3 842 523 567 <i>GoTo</i>
45x90 gusset with fasteners 	1	3 842 523 570 <i>GoTo</i>
45x90 gusset kit with fasteners (includes cover cap) designLINE 	1	3 842 538 720
45x90 round cover cap 	1	3 842 523 572

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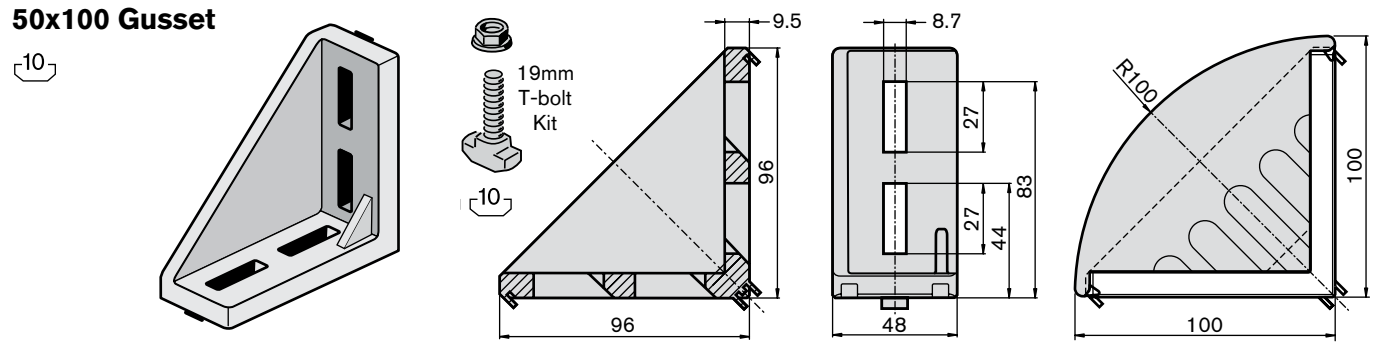
Section 3: Profile Connectors


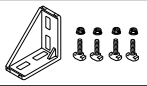
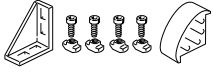

50x50 Gusset



Description	Lot Size	Part Number
50x50 gusset only 	1	3 842 530 381
50x50 gusset with fasteners 	1	3 842 530 259
50x50 gusset kit with fasteners (includes cover cap) designLINE 	1	3 842 538 722
50x50 round cover cap 	1	3 842 530 383

50x100 Gusset



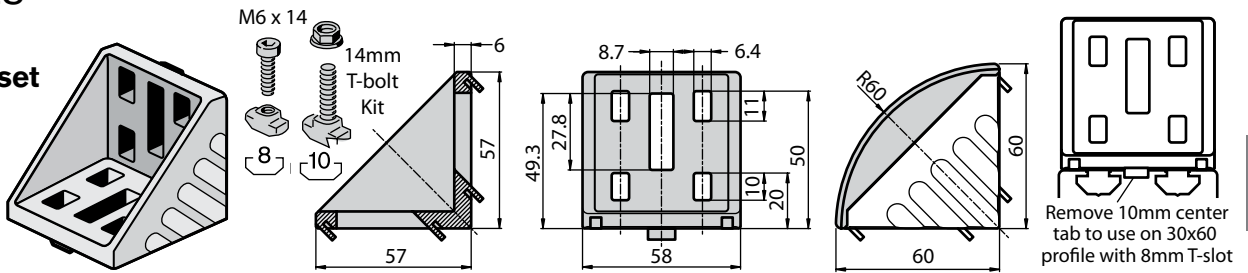
Description	Lot Size	Part Number
50x100 gusset only 	1	3 842 530 382
50x100 gusset with fasteners 	1	3 842 530 260
50x100 gusset kit with fasteners (includes cover cap) designLINE 	1	3 842 538 723
50x100 round cover cap 	1	3 842 530 384





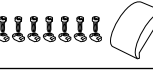












Section 3: Profile Connectors

Gussets

60x60 Gusset *GoTo*

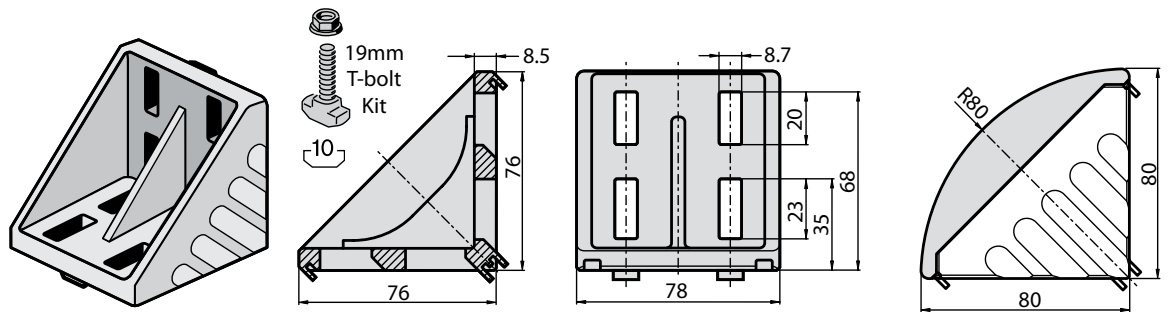
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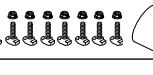


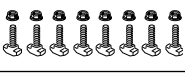



Description	Lot Size	Part Number
60x60 gusset only 	1	3 842 523 546 <i>GoTo</i>
8 → 8 60x60 gusset with fasteners for  	1	3 842 523 549
8 → 8 60x60 gusset kit with fasteners (includes cover cap) designLINE   	1	3 842 538 713
8 → 10 60x60 gusset with fasteners for  	1	3 842 523 551
8 → 10 60x60 gusset kit with fasteners (includes cover cap) designLINE   	1	3 842 538 714
10 → 10 60x60 gusset with fasteners for  	1	3 842 523 553
10 → 10 60x60 gusset kit with fasteners (includes cover cap) designLINE   	1	3 842 538 715
60x60 round cover cap 	1	3 842 523 555

80x80 Gusset

10

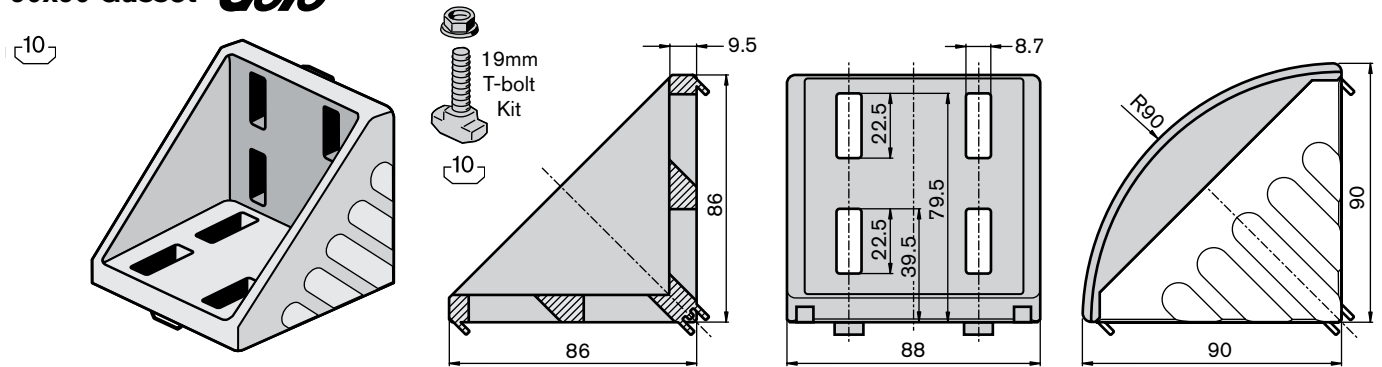



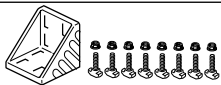


Description	Lot Size	Part Number
80x80 gusset only 	1	3 842 530 231
80x80 gusset kit with fasteners (includes cover cap) designLINE   	1	3 842 538 718
10 80x80 gusset with fasteners  	1	3 842 530 360
10 80x80 round cover cap 	1	3 842 530 232

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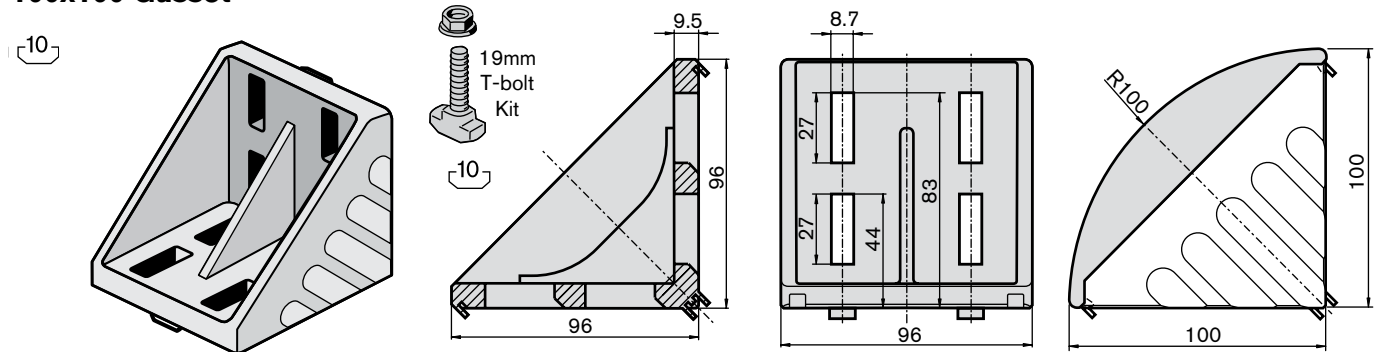
Section 3: Profile Connectors


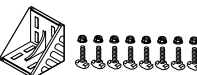


90x90 Gusset **GoTo**



Description	Lot Size	Part Number
90x90 gusset only 	1	3 842 523 575 GoTo
90x90 gusset with fasteners 	1	3 842 523 578 GoTo
90x90 gusset kit with fasteners (includes cover cap) designLINE 	1	3 842 538 721
90x90 round cover cap 	1	3 842 523 580

100x100 Gusset



Description	Lot Size	Part Number
100x100 gusset only 	1	3 842 530 460
100x100 gusset with fasteners 	1	3 842 530 361
100x100 gusset kit with fasteners (includes cover cap) designLINE 	1	3 842 538 724
100x100 round cover cap 	1	3 842 530 461

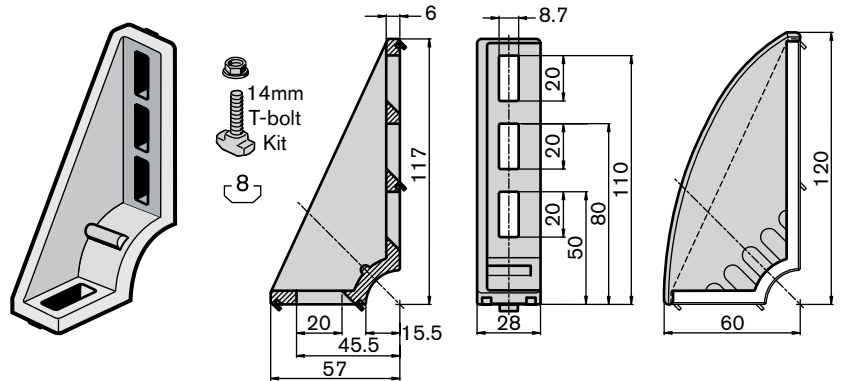
GoTo boschrexroth-us.com/framing to get these in stock items **FAST** from your local distributor





Section 3: Profile Connectors

Die-Cast Foundation Brackets

30x120 Foundation Bracket

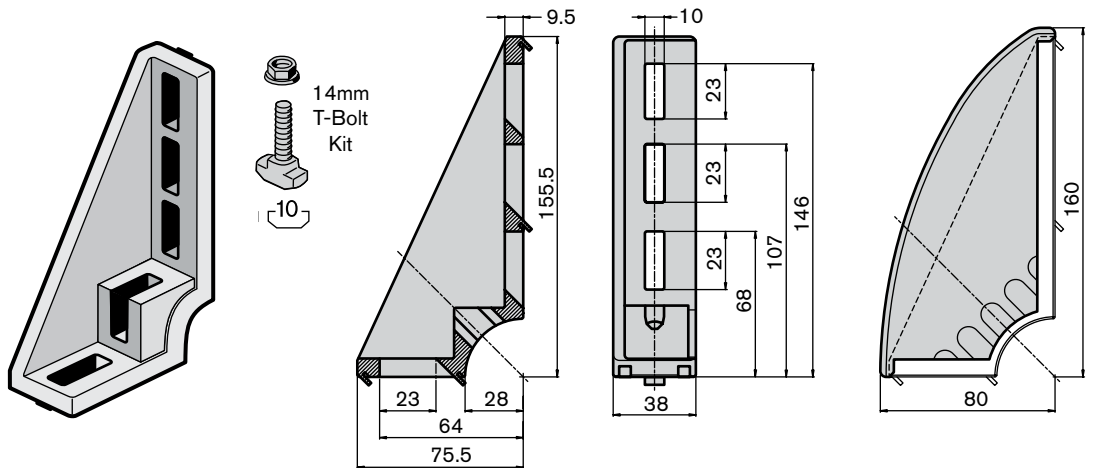
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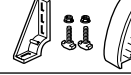



Description	Lot Size	Part Number
30x120 foundation bracket only 	1	3 842 523 587
30x120 foundation bracket with fasteners 	1	8 981 021 023
30x120 gusset kit with fasteners (includes cover cap) designLINE 	1	3 842 538 748
30x120 round cover cap 	1	3 842 523 589

40x160 Foundation Bracket

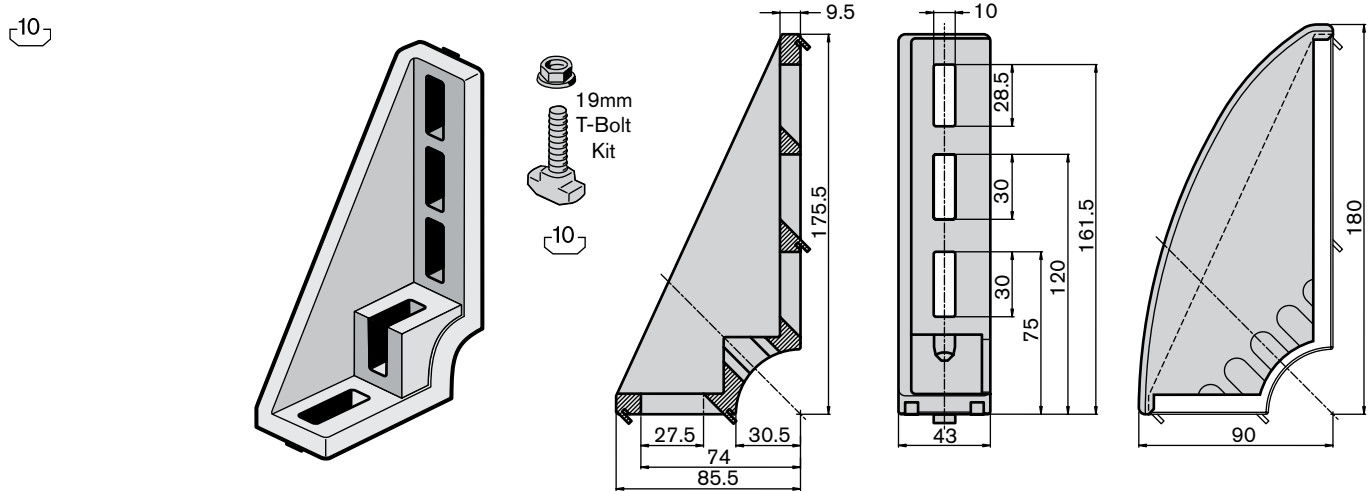
10







Description	Lot Size	Part Number
40x160 foundation bracket only 	1	3 842 529 006
40x160 foundation bracket with fasteners 	1	8 981 021 348
40x160 gusset kit with fasteners (includes cover cap) designLINE 	1	3 842 538 749
40x160 round cover cap 	1	3 842 529 009

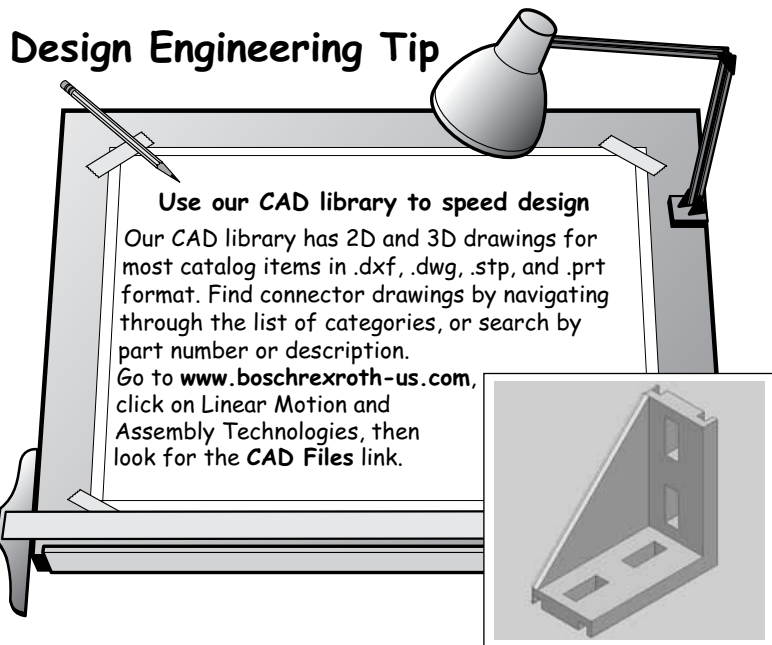
Section 3: Profile Connectors

45x180 Foundation Bracket



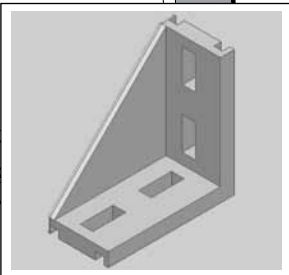
Description	Lot Size	Part Number
45x180 foundation bracket only 	1	3 842 523 583
45x180 foundation bracket with fasteners 	1	3 842 527 535
45x180 gusset kit with fasteners (includes cover cap) designLINE 	1	3 842 538 750
45x180 round cover cap 	1	3 842 523 585

Design Engineering Tip



Use our CAD library to speed design

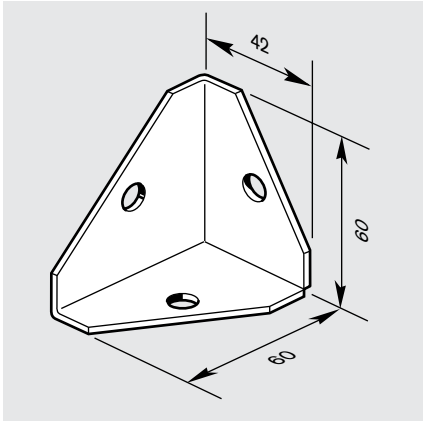
Our CAD library has 2D and 3D drawings for most catalog items in .dxf, .dwg, .stp, and .prt format. Find connector drawings by navigating through the list of categories, or search by part number or description. Go to www.boschrexroth-us.com, click on Linear Motion and Assembly Technologies, then look for the **CAD Files** link.



Section 3: Profile Connectors

Other 90° Right-Angle Connectors

Sheet Metal Gusset—42x60 10

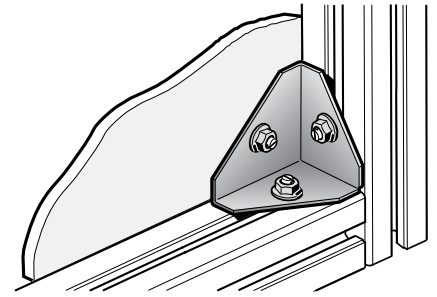


Features:

- Used with 45-series profile to create a right-angle connection
- Hole in side can be used for attaching panels, tabletops, etc.

Material:

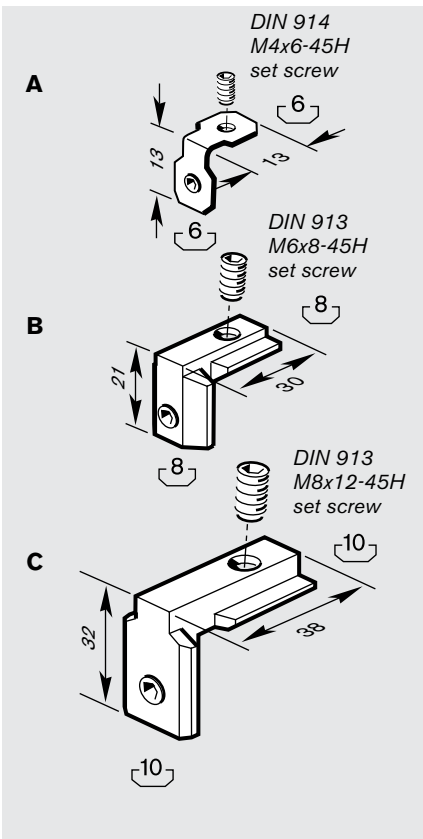
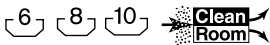
- Zinc-plated sheet steel



3

Description	Lot Size	Part Number
42x60 sheet metal gusset	1	3 842 146 813

6mm, 8mm, & 10mm Inside-to-Outside Gussets

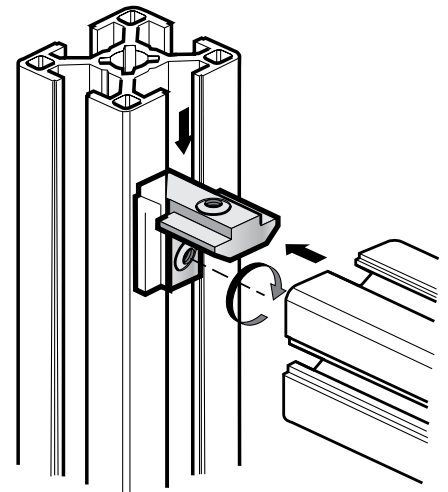
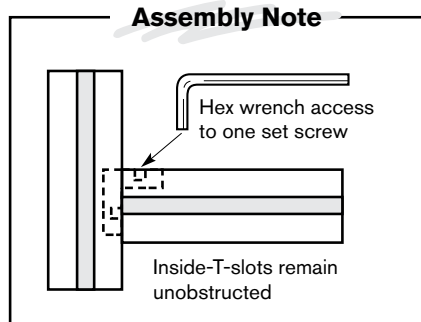


Features:

- Clean appearance
- Easy set screw installation
- Does not obstruct T-slot
- Includes set screws

Material:

- Die-cast brass



Description	Lot Size*	Part Number
A 6mm inside-to-outside gusset and set screws 6→6	10	3 842 535 574
B 8mm inside-to-outside gusset and set screws 8→8	10	3 842 535 578
C 10mm inside-to-outside gusset and set screws 10→10	10	3 842 535 572

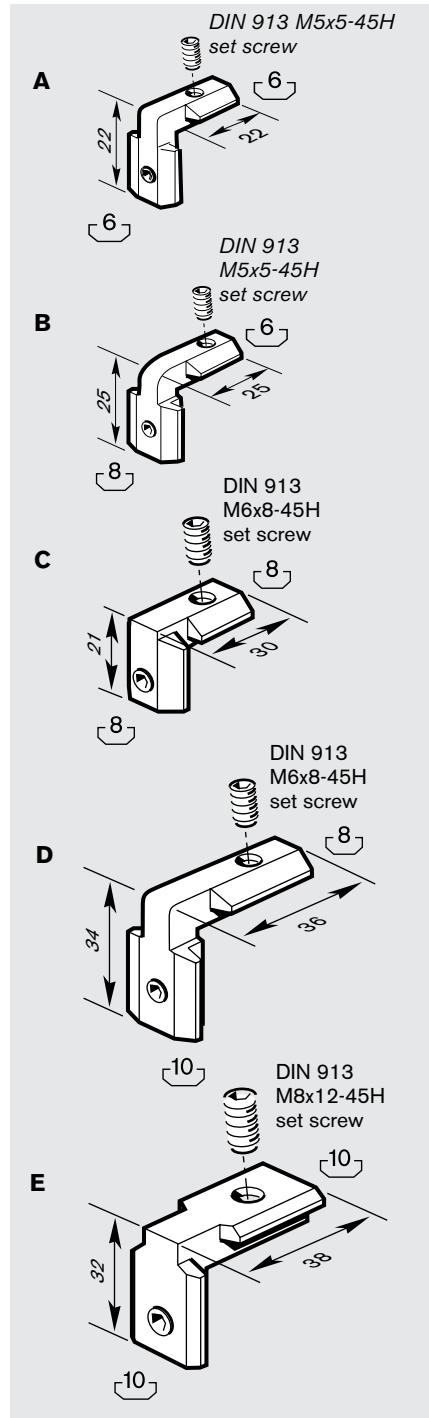
* For smaller quantities, please contact your local distributor.

Section 3: Profile Connectors

6mm, 8mm, & 10mm Inside-to-Inside Gussets



3

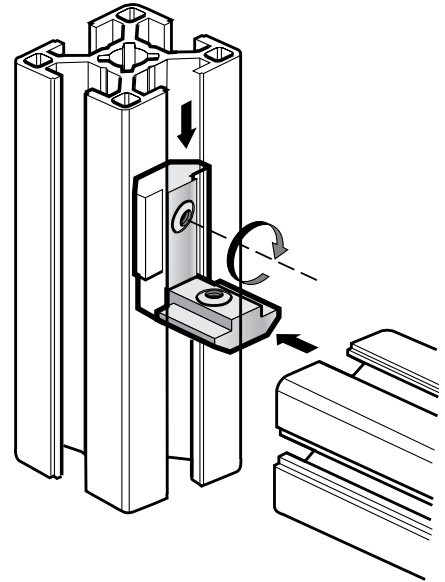
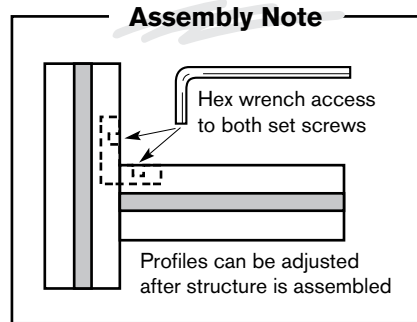


Features:

- Clean appearance
- Easy set screw installation
- Includes set screws

Material:

- Die-cast brass



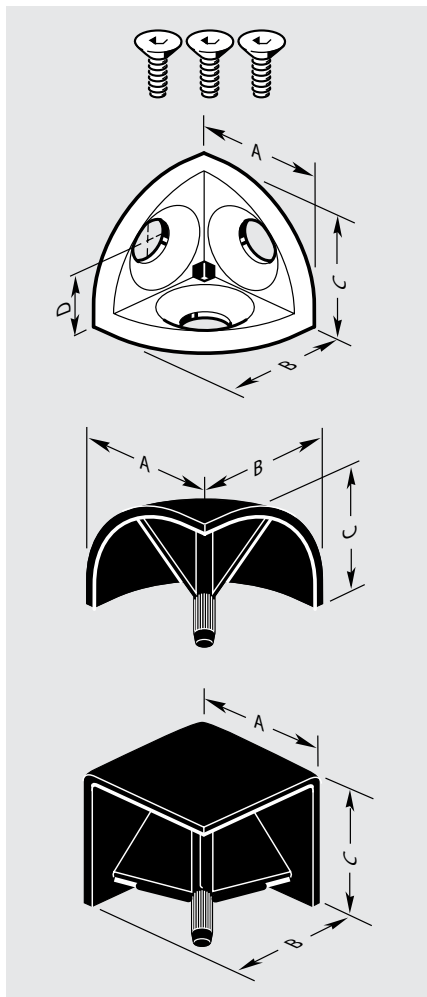
Description	Lot Size*	Part Number
A 6mm inside-to-inside gusset and set screws (6→6)	10	3 842 535 575
B 6mm to 8mm inside-to-inside gusset and set screws (6→8)	10	3 842 535 573
C 8mm inside-to-inside gusset and set screws (8→8)	10	3 842 535 577
D 8mm to 10mm inside-to-inside gusset and set screws (8→10)	10	3 842 535 576
E 10mm inside-to-inside gusset and set screws (10→10)	10	3 842 535 571 GoTo

* For smaller quantities, please contact your local distributor.

Section 3: Profile Connectors

Other 90° Right-Angle Connectors

Corner Brackets

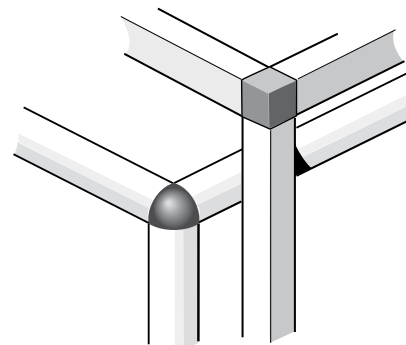







Features:

- One bracket connects two or three profiles
- Compatible with square or radius profiles
- Provides neat, finished appearance

Material:

- Bracket: die-cast zinc
- Cover caps: black polyamide 6
- Screws: zinc-plated steel



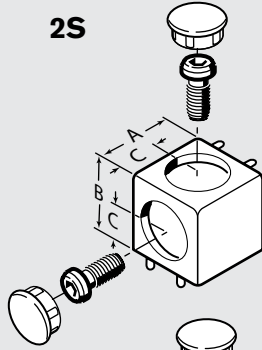
Description	Lot Size	Part Number
20mm corner bracket with fasteners 	1	3 842 519 318
20mm radius cover cap	1	3 842 517 146
20mm square cover cap	1	3 842 517 147
30mm corner bracket with fasteners 	1	3 842 519 319
30mm radius cover cap	1	3 842 517 281
30mm square cover cap	1	3 842 517 282
40mm corner bracket with fasteners 	1	3 842 529 404
40mm radius cover cap	1	3 842 529 016
40mm square cover cap	1	3 842 529 018
45mm corner bracket with fasteners 	1	3 842 519 321
45mm radius cover cap	1	3 842 517 290
45mm square cover cap	1	3 842 517 291
Replacement screw for 20mm bracket  DIN 7516 S6x16 flat-head screw	1	3 842 517 132
Replacement screw for 30mm bracket: S8x25 flat-head screw	1	3 842 517 543
Replacement screw for 40mm, 45mm, or 50mm bracket: S12x30 flat-head screw	1	3 842 517 613

Bracket/ Cap Size	Dimension in mm				Screw Size
	A	B	C	D	
20mm	20	20	20	10	S6x16
30mm	30	30	30	15	S8x25
40mm	40	40	40	20	S12x30
45mm	45	45	45	22.5	S12x30
50mm	50	50	50	25	S12x30

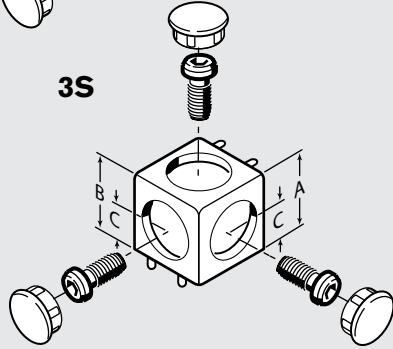
Section 3: Profile Connectors

Corner Cube Kits  

2S



3S



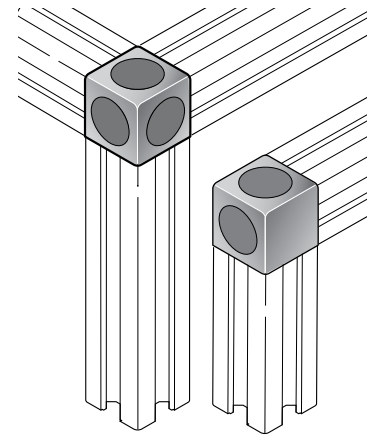
Cube Size	Dimension in mm			Screw Size
	A	B	C	
20mm	20	20	10	S6x16
30mm	30	30	15	S8x25
40mm	40	40	20	S12x30
45mm	45	45	22.5	S12x30
50mm	50	50	25	S12x30

Features:

- Use 2S version to connect two profiles, or 3S version to connect three profiles
- Includes self-tapping screws and cover caps to provide neat, finished appearance

Material:

- Corner cube: die-cast aluminum
- Cover caps: black polyamide
- Screws: steel



Description	Lot Size	Part Number
20mm corner cube kit 2S	1	3 842 524 484
20mm corner cube kit 3S	1	3 842 524 478
30mm corner cube kit 2S	1	3 842 524 485
30mm corner cube kit 3S	1	3 842 524 479
40mm corner cube kit 2S	1	3 842 529 395
40mm corner cube kit 3S	1	3 842 529 397
45mm corner cube kit 2S	1	3 842 524 486
45mm corner cube kit 3S	1	3 842 524 480
50mm corner cube kit 2S	1	3 842 529 399
50mm corner cube kit 3S	1	3 842 529 401

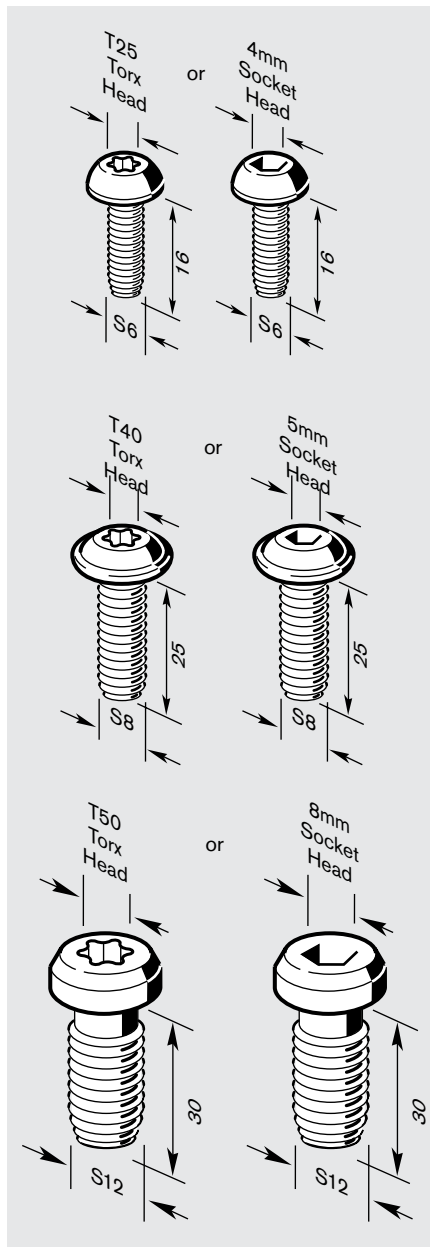
designLINE

Description	Lot Size	Part Number
20mm corner cube kit 2S designLINE	1	3 842 538 725
20mm corner cube kit 3S designLINE	1	3 842 538 726
30mm corner cube kit 2S designLINE	1	3 842 538 727
30mm corner cube kit 3S designLINE	1	3 842 538 728
40mm corner cube kit 2S designLINE	1	3 842 538 729
40mm corner cube kit 3S designLINE	1	3 842 538 730
45mm corner cube kit 2S designLINE	1	3 842 538 731
45mm corner cube kit 3S designLINE	1	3 842 538 732
50mm corner cube kit 2S designLINE	1	3 842 538 733
50mm corner cube kit 3S designLINE	1	3 842 538 734

Section 3: Profile Connectors

Other 90° Right-Angle Connectors

Self-Tapping Connection Screws



Features:

- Provides strong connection with high resistance to vibration
- Available as Torx head or standard hex socket head
- Self-threading for quick, easy installation
- Does not obstruct T-slot

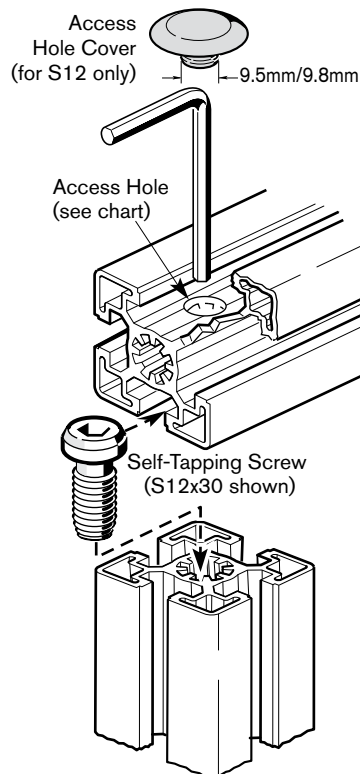
Machining Required:

- Access hole (see chart for size)

Material:

- Screw: zinc-plated industrial grade 8.8 steel
- Cover cap: black polyamide 6

Screw Size	Access Hole	Access Hole Cover (in mm)
S6x16	Ø5.8mm	N/A
S8x25	Ø7.8mm	N/A
S12x30	Ø9.8mm	9.5 / 9.8

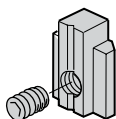


Description	Lot Size	Part Number
S6x16 self-tapping connection screw, 4mm socket head	1	3 842 523 968 GoTo
S6x16 self-tapping connection screw, T25 Torx head	1	3 842 528 593 GoTo
5.8mm access hole cover designLINE	100	3 842 538 565
S8x25 self-tapping connection screw, 5mm socket head	1	3 842 523 970 GoTo
S8x25 self-tapping connection screw, T40 Torx head	1	3 842 527 174 GoTo
8mm swivel-in anti-rotation T-block (optional), (see next page for details)	1	3 842 530 325
S12x30 self-tapping connection screw, 8mm socket head	1	8 981 021 302 GoTo
7.8mm access hole cover designLINE	100	3 842 538 566
S12x30 self-tapping connection screw, T50 Torx head	1	3 842 530 236
9.5/9.8mm access hole cover	1	8 981 005 306
10mm swivel-in anti-rotation T-block (optional) (see next page for details)	1	3 842 530 326
9.8mm access hole cover designLINE	100	3 842 538 567

Assembly Note

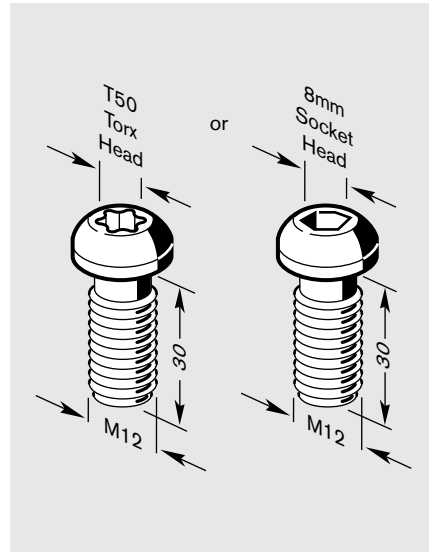
Never tap the center bore of profiles when using self-tapping screws.

When using S8 and S12 self-tapping screws, use anti-rotation T-blocks to ensure profile alignment.



Section 3: Profile Connectors

M12 Connection Screws ¹⁰



Features:

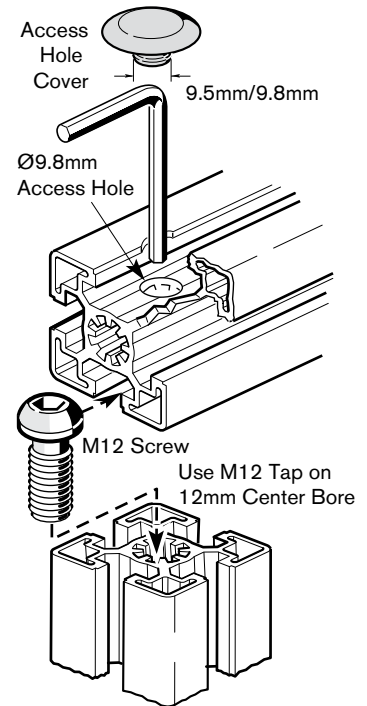
- Provides strong connection with high resistance to vibration
- Available as Torx head or standard hex socket head
- Does not obstruct T-slot

Machining Required:

- 9.8mm access hole
- Center bore of profile tapped M12

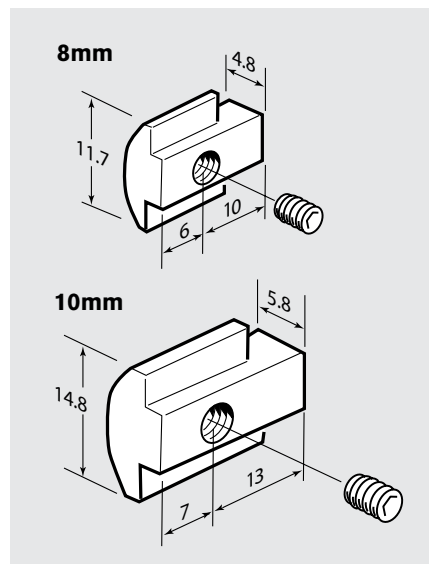
Material:

- Screw: zinc-plated industrial grade 8.8 steel
- Cover cap: black polyamide 6



Description	Lot Size	Part Number
M12x30 connection screw, 8mm socket head ¹⁰	1	8 981 021 301 <i>GoTo</i>
M12x30 connection screw, T50 Torx head ¹⁰	1	3 842 530 235
9.5/9.8mm access hole cover	1	8 981 005 306
10mm swivel-in anti-rotation T-block (optional) (see below for details)	1	3 842 530 326
9.8mm access hole cover designLINE	100	3 842 538 567

Anti-Rotation T-Block ⁸ ¹⁰

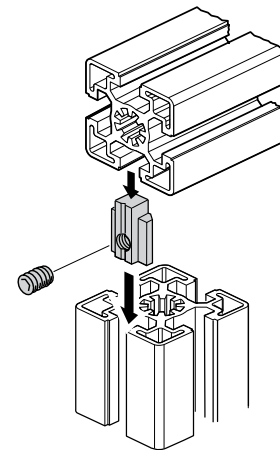


Features:

- Swivel-in installation
- Prevents rotation at connection point
- Large surface area contact with profile's T-slot ensures solid grip
- Ideal for use with connection screws

Material:

- Screw: zinc-plated industrial grade 8.8 steel



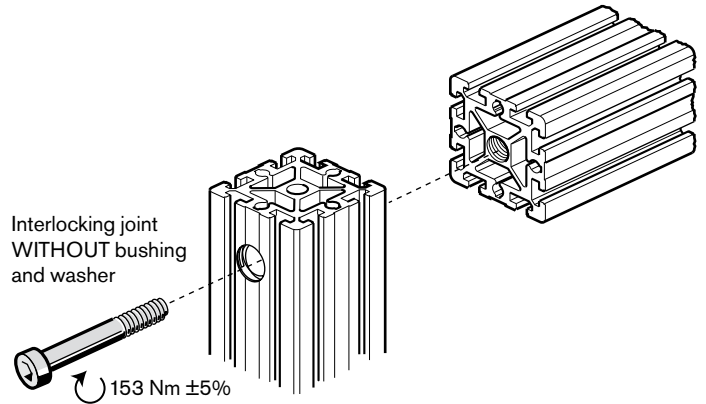
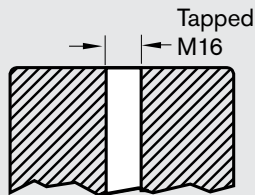
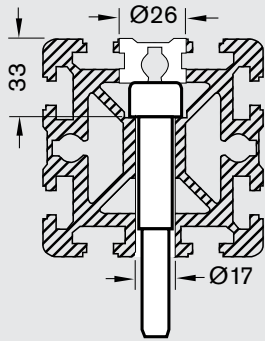
Description	Lot Size	Part Number
8mm swivel-in anti-rotation T-block ⁸	1	3 842 530 325
10mm swivel-in anti-rotation T-block ¹⁰	1	3 842 530 326

Section 3: Profile Connectors

Other 90° Right-Angle Connectors

M16 Connection Screw 10

Connection using M16 connection screw
WITHOUT bushing and washer



Features:

- Connects profiles with 16mm center bore at right angles

Machining Required:

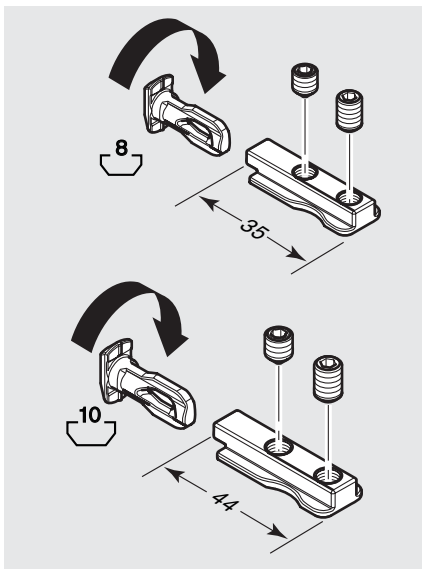
- See diagram at left

Material:

- Screw: zinc-plated industrial grade 8.8 steel

Description	Lot Size	Part Number
M16 connection screw M16x100-8.8 10	1	2 910 141 454

Tension Connector 8 10

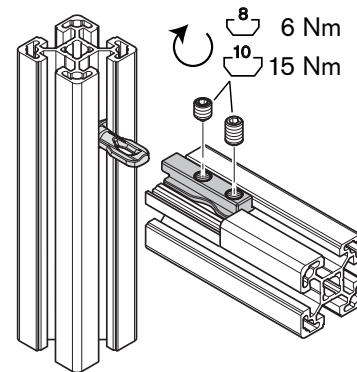


Features:

- Provides fast assembly without profile machining
- T-head is easily positioned in the T-slot, even on existing structures
- Clean appearance with easy setscrew installation


Material:

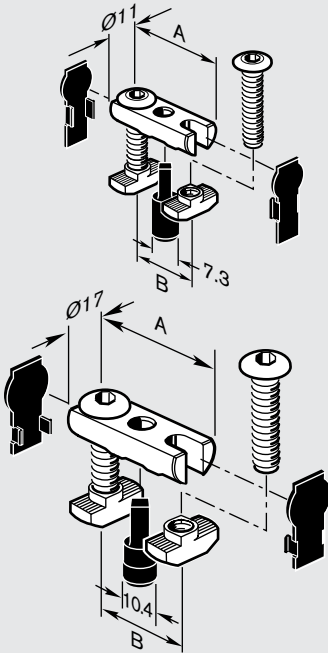
- Die-cast Steel



Description	Lot Size	Part Number
SV8 Tension Connector, 30 series profiles 8	10	3 842 538 489
SV10L Tension Connector, 45 series profiles 10	10	3 842 538 491
SV10 Tension Connector, 40H, 45H, 60H, series profiles 10	10	3 842 538 490

Section 3: Profile Connectors

Bolt Connector Kits - Type 1  **GoTo**



Features:

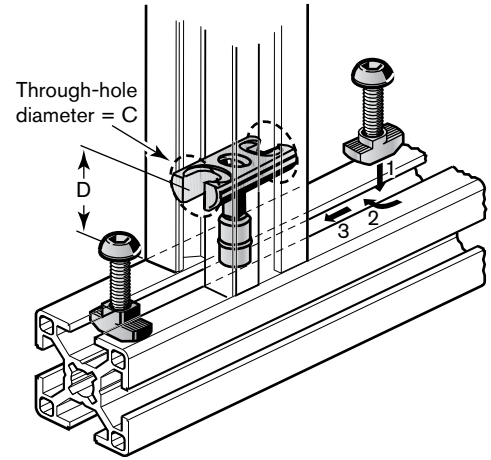
- Provides strongest right-angle connection
- Centering pin eases alignment and assembly
- Includes two cover caps to create neat, finished appearance
- Obscures profile T-slot: panels or panes must be trimmed

Machining Required:

- Through hole in one profile: see chart

Material:

- Bolt connector: zinc-plated 8.8 steel
- Cover caps and alignment pin: black polyamide 6












Bolt Connector Size	Dimension in mm			
	A	B	ØC	D
30mm	30	18	11	18
40mm	40	23	17	22.5
45mm	45	28	17	22.5
50mm	50	33	17	22.5
60mm	60	43	17	22.5
80mm	80	63	17	22.5
90mm	90	73	17	22.5
100mm	100	83	17	22.5

Description

Lot Size*

Part Number

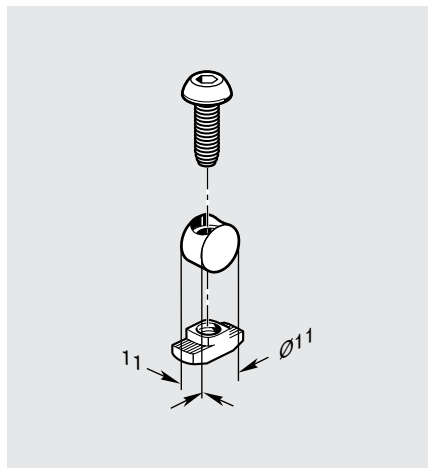
30mm bolt connector kit for 	10	3 842 535 624
30mm bolt connector kit for 	10	3 842 535 583
40mm bolt connector kit 	10	3 842 535 620
45mm bolt connector kit 	10	3 842 500 921 <i>GoTo</i>
50mm bolt connector kit 	10	3 842 535 621
60mm bolt connector kit 	10	3 842 500 922
80mm bolt connector kit 	10	3 842 535 622
90mm bolt connector kit 	10	3 842 500 923 <i>GoTo</i>
100mm bolt connector kit 	10	3 842 535 618

* For smaller quantities, please contact your local distributor.

Section 3: Profile Connectors

Other 90° Right-Angle Connectors

11x30mm Bolt Connector Kits



Features:

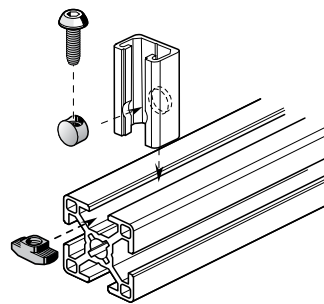
- Provides strong right-angle connection
- Versions available for attaching 11x30 profile to profiles with 8mm or 10mm T-slots


Material:

- Bolt connector, screw, and T-nut: zinc-plated steel

Machining Required:

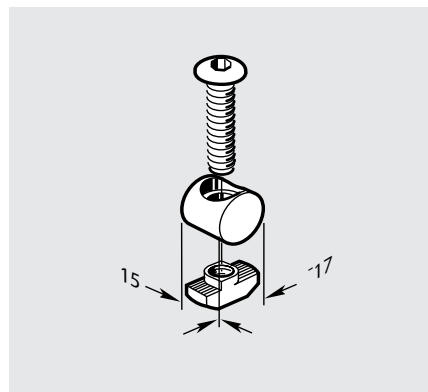
- 11mm hole through 11x30 profile



Description	Lot Size*	Part Number
11x30mm bolt connector kit 	10	3 842 535 617

* For smaller quantities, please contact your local distributor.

15x22.5mm Bolt Connector Kit



Features:

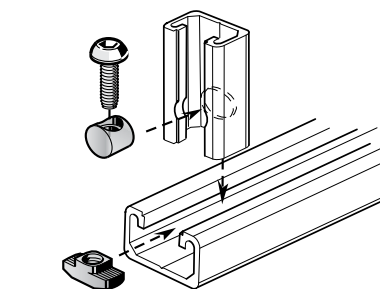
- Provides strong right-angle connection for 15x22.5 profile

Material:

- Bolt connector, screw, and T-nut: zinc-plated steel

Machining Required:

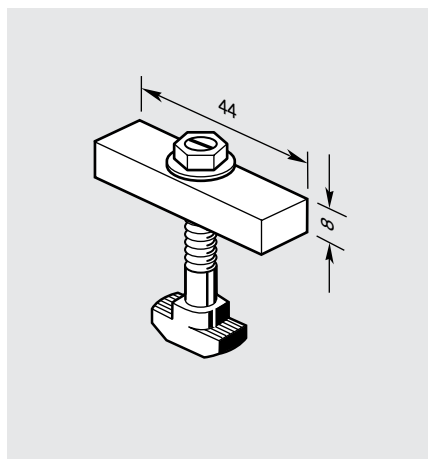
- 17mm through-hole (see drawing)



Description	Lot Size*	Part Number
15x22.5mm bolt connector kit	10	3 842 535 619

* For smaller quantities, please contact your local distributor.

Cross Connector Kit



Features:

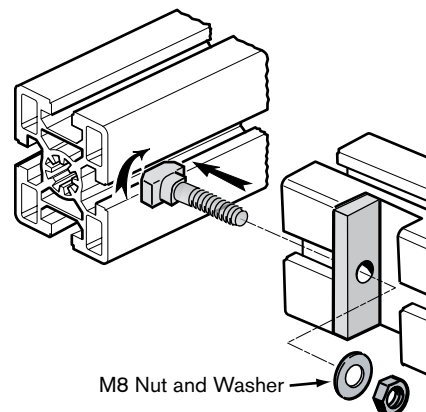
- Provides strong, torque-resistant connection to support heavy loads
- Commonly used in conveyor leg sets and machine frames
- Works with 45- and 90-series profiles, as well as 60x90H

Material:

- Zinc-plated steel

Machining Required:

- 30mm wide milled slot



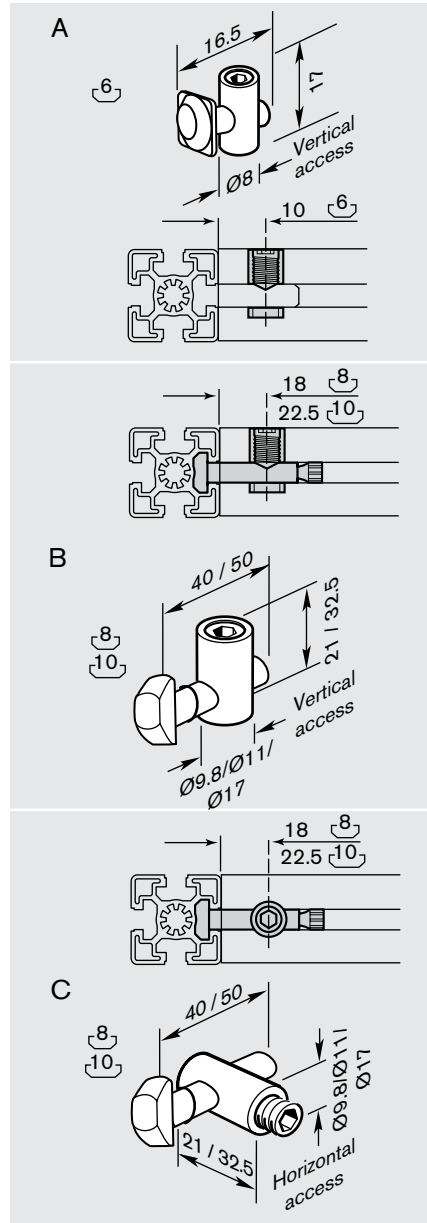
Description	Lot Size	Part Number
Cross connector kit	1	3 842 146 972

Section 3: Profile Connectors



Quick Connectors/Rigid **GoTo**

3



Features:

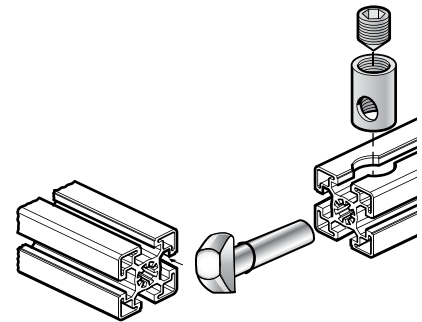
- Quickly and easily connect 6mm, 8mm and 10mm profiles at right angles
- Fast assembly and disassembly: ideal for temporary structures such as trade show displays and fixtures
- Keeps three T-slots open for mounting panels or accessories
- Choose either perpendicular or parallel options

Material:

- **A** Stainless steel
- **B & C** Zinc-plated 8.8 steel

Machining Required:

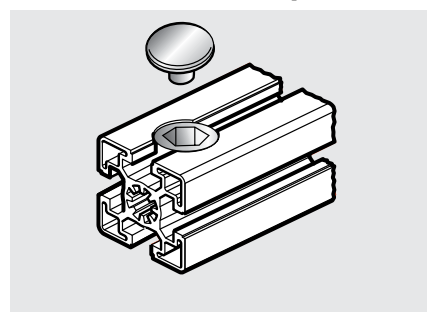
- 9.8mm barrel: 9.8mm through-hole
- 11mm barrel: 11mm through-hole
- 17mm barrel: 17mm through-hole



Description	Lot Size*	Part Number
A Quick connector/rigid for Vertical access. Includes 6mm T-bolt, 8mm barrel.	10	3 842 537 013
B Quick connector/rigid for Vertical access. Includes 8mm T-bolt, 11mm barrel.	10	3 842 535 459
B Quick connector/rigid for Vertical access. Includes 10mm T-bolt, 11mm barrel.	10	3 842 535 464
B Quick connector/rigid for Vertical access. Includes 10mm T-bolt, 17mm barrel.	10	3 842 535 458 GoTo
B Quick connector/rigid for Vertical access. Includes 10mm T-bolt, 9.8mm barrel.	10	3 842 541 412
C Quick connector/rigid for Horizontal access. Includes 8mm T-bolt, 11mm barrel.	10	3 842 535 465
C Quick connector/rigid for Horizontal access. Includes 10mm T-bolt, 17mm barrel.	10	3 842 535 466
C Quick connector/rigid for Horizontal access. Includes 10mm T-bolt, 9.8mm barrel.	10	3 842 541 410



Quick Connector Cap



Material:

- PA, light gray RAL 7035

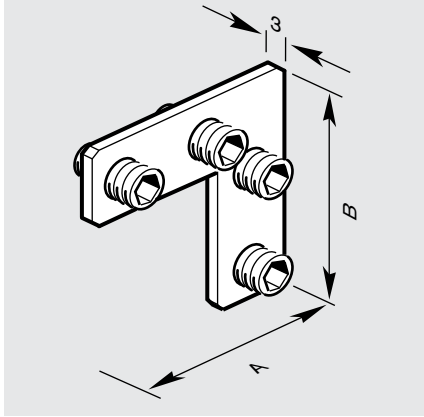
Description	Lot Size*	Part Number
Cap for quick connector, 8mm designLINE	10	3 842 538 562
Cap for quick connector, 11mm designLINE	10	3 842 538 563
Cap for quick connector, 17mm designLINE	10	3 842 538 564

* For smaller quantities, please contact your local distributor.

Section 3: Profile Connectors

Other 90° Right-Angle Connectors

6mm, 8mm, & 10mm Mitered Corner Connectors



Features:

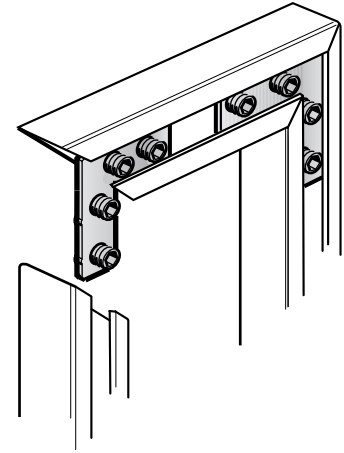
- Used to connect profiles whose ends have been cut at a 45° angle
- Applications include doors and window frames
- Includes set screws

Material:

- Zinc-plated steel

Machining Required:

- 45° miter on profile corners



Mitered Corner Connector Size	Dimension in mm		
	A	B	Set Screw
6mm	46	46	M4x5
8mm	46	46	M8x8
10mm	60	60	M10x10

Description

Lot Size*

Part Number

6mm mitered corner connector	4	3 842 535 626
8mm mitered corner connector	4	3 842 535 627
10mm mitered corner connector	4	3 842 535 625

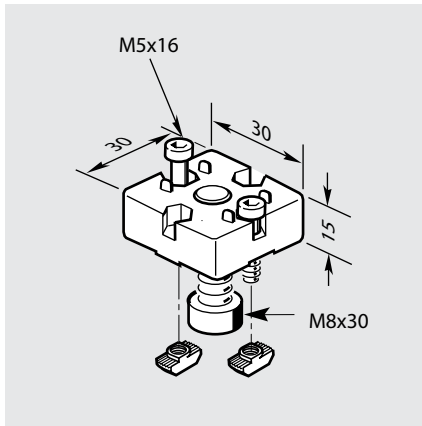
* For smaller quantities, please contact your local distributor.

Section 3: Profile Connectors

T-Connector Kits 

3

30x30 T-Connector Kit 



Features:

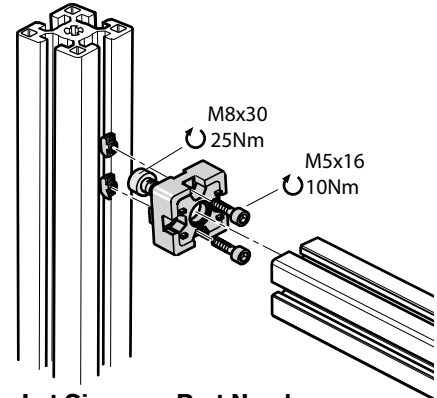
- Includes all fastening hardware
- Can be used ONLY with 30x30 profiles

Machining Required:

- M8 tap in end of one profile

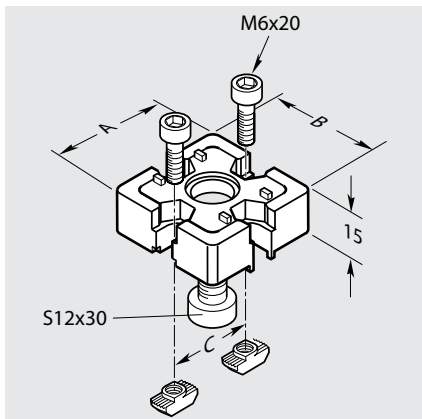
Material:

- Die-cast zinc



Description	Lot Size	Part Number
30x30 T-connector kit designLINE	1	3 842 538 696
30x30 T-connector kit	1	3 842 524 476

40x40, 45x45, & 50x50 T-Connector Kits 

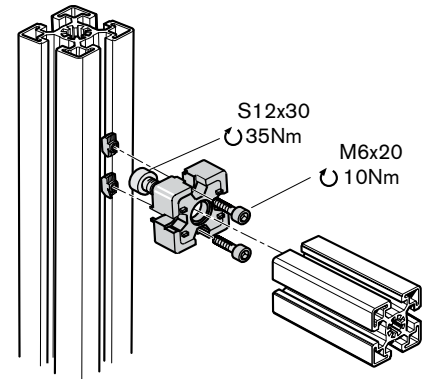


Features:

- Includes all fastening hardware
- Includes self-tapping screw; no machining required

Material:

- Die-cast zinc



Description	Lot Size	Part Number
40x40 T-connector kit designLINE	1	3 842 538 697
45x45 T-connector kit designLINE	1	3 842 538 698
50x50 T-connector kit designLINE	1	3 842 538 699
40x40 T-connector kit	1	3 842 532 195
45x45 T-connector kit	1	3 842 520 802
50x50 T-connector kit	1	3 842 532 198

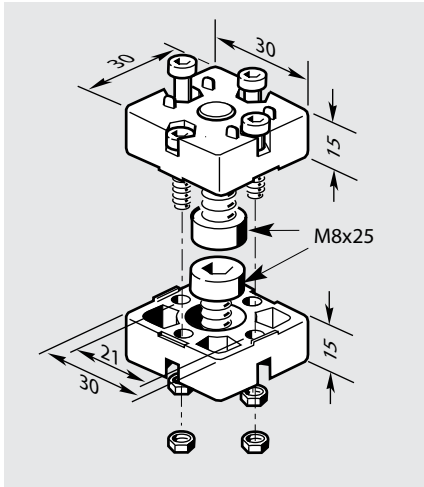
T-Connector Size	Dimension in mm		
	A	B	C
40mm	40	40	29.6
45mm	45	45	34
50mm	50	50	39

Section 3: Profile Connectors

180° Straight-Line Connectors

End Connector Kits

30x30 End Connector Kit



Features:

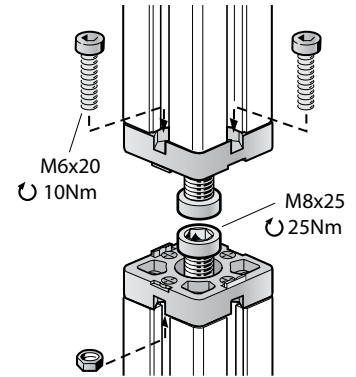
- Ideal for extending profiles beyond standard available length
- Includes all fastening hardware
- Can be used **ONLY** with 30x30 profiles

Machining Required:

- M8 tap in end of both profiles

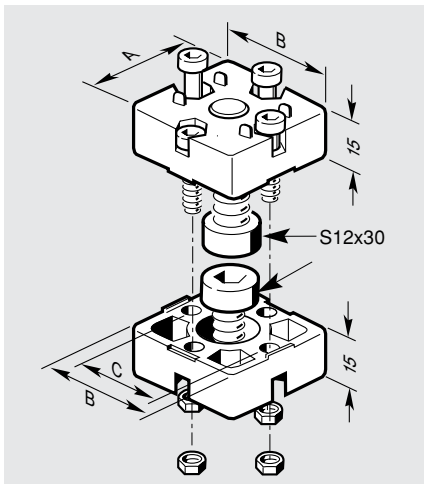
Material:

- Die-cast zinc



Description	Lot Size	Part Number
30x30 end connector kit designLINE	1	3 842 538 656
30x30 end connector kit	1	3 842 526 003

40x40, 45x45, & 50x50 End Connector Kits

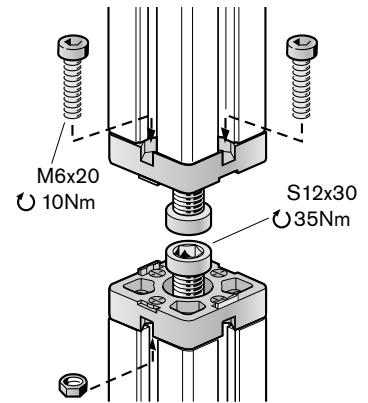


Features:

- Ideal for extending profiles beyond standard available length
- Includes all fastening hardware
- Includes self-tapping screws; no machining required

Material:

- Die-cast zinc



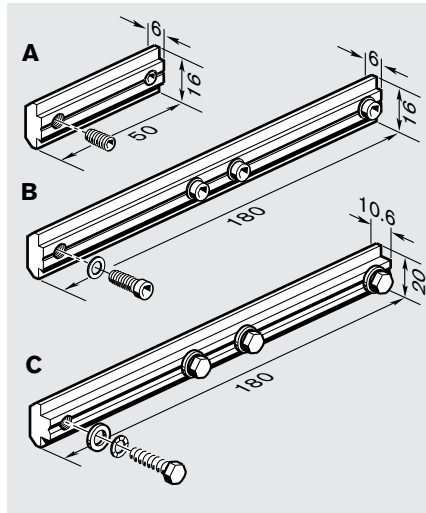
Description	Lot Size	Part Number
40x40 end connector kit designLINE	1	3 842 538 657
45x45 end connector kit designLINE	1	3 842 538 658
50x50 end connector kit designLINE	1	3 842 538 659
40x40 end connector kit	1	3 842 532 196
45x45 end connector kit	1	3 842 191 175
50x50 end connector kit	1	3 842 532 199

End Connector Size	Dimension in mm		
	A	B	C
40mm	40	40	29.6
45mm	45	45	34
50mm	50	50	39

Section 3: Profile Connectors

3

8mm & 10mm Connection Link Kits  **GoTo**

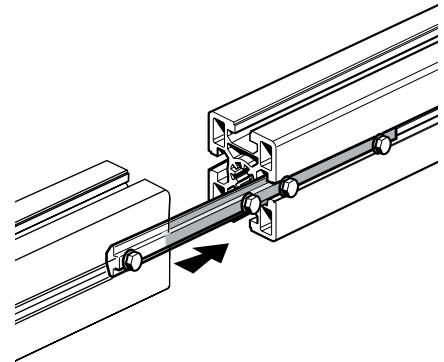


Features:

- Provide a heavy-duty connection extending profiles beyond standard available length
- Ideal for use in perimeter guarding and conveyor rails
- Includes all fastening hardware; no machining required

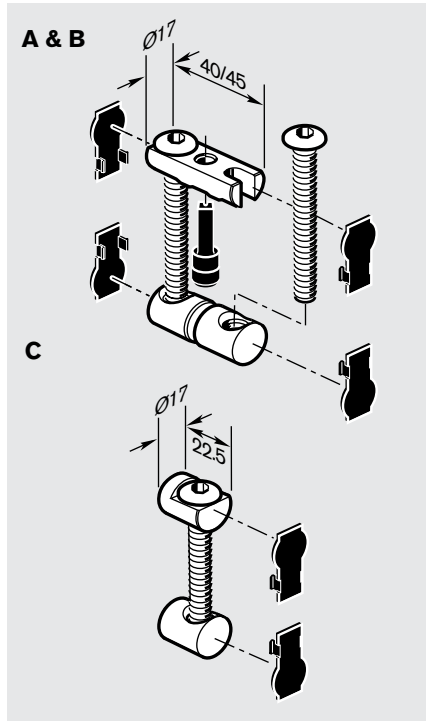
Material:

- Zinc-plated steel



Description	Lot Size	Part Number
A 8mm connection link kit, 50mm long	1	3 842 518 427
B 8mm connection link kit, 180mm long	1	3 842 521 216
C 10mm connection link kit, 180mm long	1	3 842 528 746 <i>GoTo</i>

End-to-End Bolt Connector Kits 



Features:

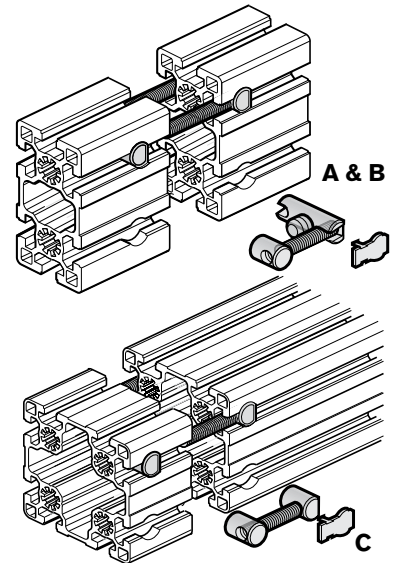
- Provide a strong end-to-end for any 10mm T-slotted profile
- Cover caps conceal through-hole and connector, and provide neat, finished appearance
- For precise positioning when drilling through-holes, use drilling/boring jig 3 842 218 960.

Machining Required:

- 17mm through-hole

Material:

- Barrels and screws: zinc-plated steel, 8.8
- Cover caps: black polyamide 6

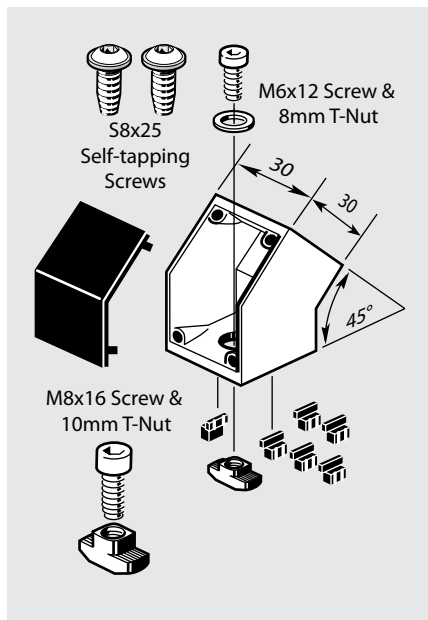


Description	Lot Size	Part Number
A End-to-end bolt connector kit, 40mm	1	3 842 529 293
B End-to-end bolt connector kit, 45mm	1	3 842 529 248
C Universal end-to-end bolt connector kit	1	3 842 529 334

Section 3: Profile Connectors

45° Angle Connectors

45° Angle Connector Kit – 30mm 8 10

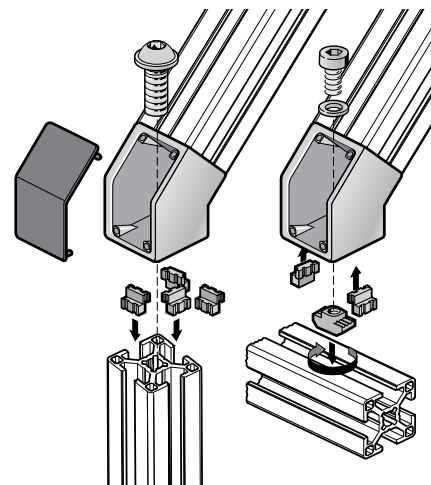


Features:

- Connects 30x30 profiles end-to-end at a 45° angle
- Make a 45° end-to-side connection between a 30x30 profile and any profile with 8mm or 10mm T-slots
- Includes all hardware, adapters, and cover cap for a neat, finished appearance

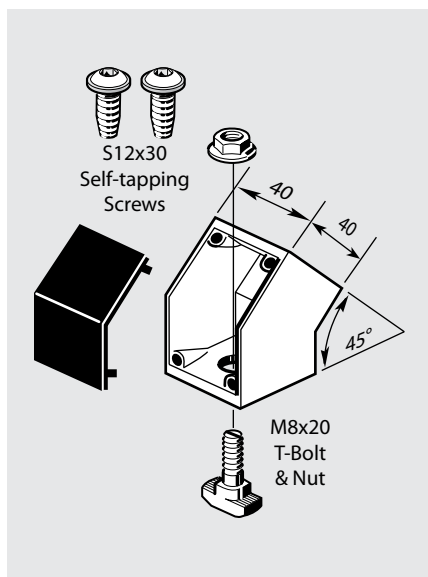
Material:

- Connector: die-cast zinc
- Adapters and cover cap: black polyamide 6



Description	Lot Size	Part Number
45° angle connector kit – 30mm designLINE	1	3 842 538 700
45° angle connector kit – 30mm	1	3 842 518 426

45° Angle Connector Kit – 40mm 10

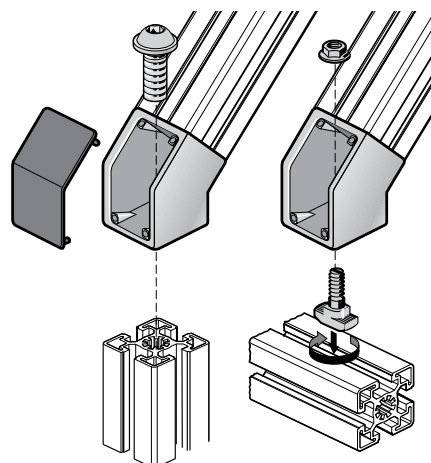


Features:

- Connects 40x40 profiles end-to-end at a 45° angle
- Make a 45° end-to-side connection between a 40x40 profile and any profile with 10mm T-slots
- Includes all hardware, adapters, and cover cap for a neat, finished appearance

Material:

- Connector: die-cast aluminum
- Adapters and cover cap: black polyamide 6



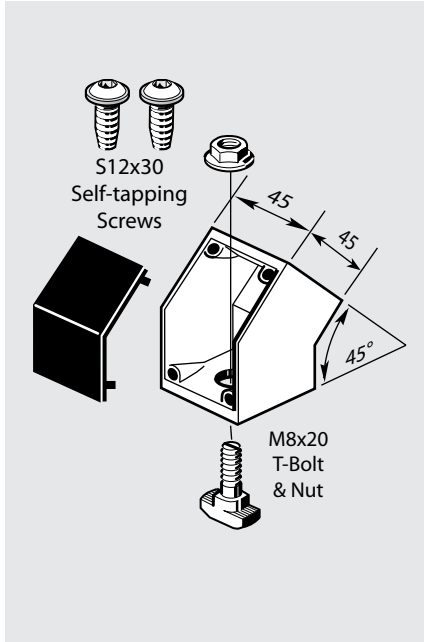
Description	Lot Size	Part Number
45° angle connector kit – 40mm designLINE	1	3 842 538 701
45° angle connector kit – 40mm	1	3 842 532 205

Section 3: Profile Connectors



3

45° Angle Connector Kit – 45mm

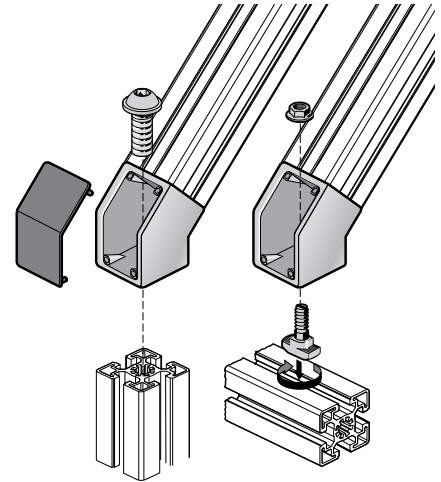


Features:

- Connects 45x45 profiles end-to-end at a 45° angle
- Make a 45° end-to-side connection between a 45x45 profile and any profile with 10mm T-slots
- Includes fasteners for several connection options
- Includes cover caps for a neat, finished appearance

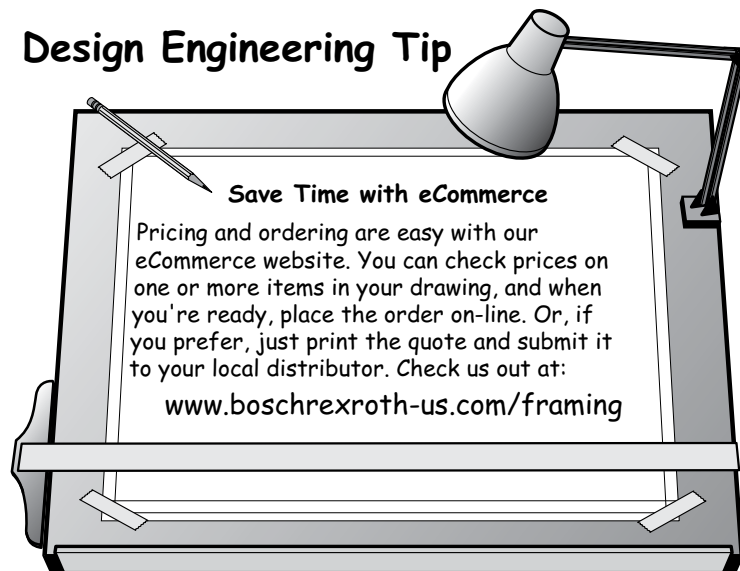
Material:

- Connector: die-cast aluminum
- Cover cap: black polyamide 6



Description	Lot Size	Part Number
45° angle connector kit – 45mm designLINE	1	3 842 538 702
45° angle connector kit – 45mm	1	3 842 535 428

Design Engineering Tip

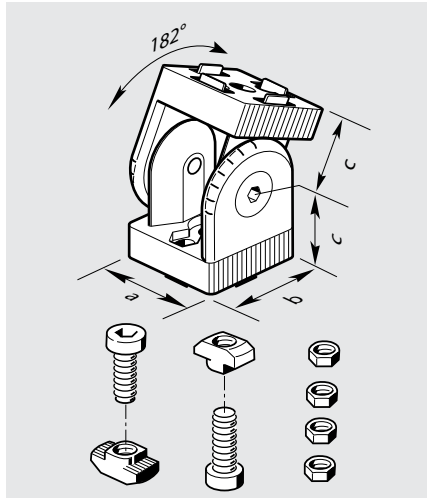


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www.boschrexroth-us.com/framing

Section 3: Profile Connectors

Multi-Angle Connector Kits

30x30 Multi-Angle Connector Kit

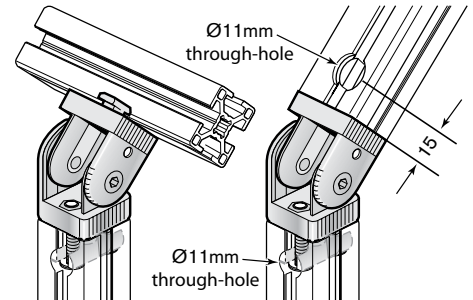


Features:

- Includes hardware to connect two profiles with 8mm T-slots side-by-side or use 10mm M6 T-nuts to connect (part number 3 842 530 285) profiles with 10mm T-slots
- Connect the end of a 30x30 profile (including 30x30 2S and 3S) to the side of a profile with 8mm or 10mm T-slots (requires one 30mm bolt connector kit, sold separately)
- Connect two 30x30 profiles end-to-end (requires two 30mm bolt connector kits, sold separately)

Material:

- Joint components: die-cast zinc



Machining Required:

- 11mm through-hole, 15mm from end of profile for each end-to-end connection

Multi-Angle Connector	Dimension in mm			max. in Nm with pin
	a	b	c	
30x30	30	30	25	15
40x40	40	40	34	15*

* Max. torque with handle is 5Nm

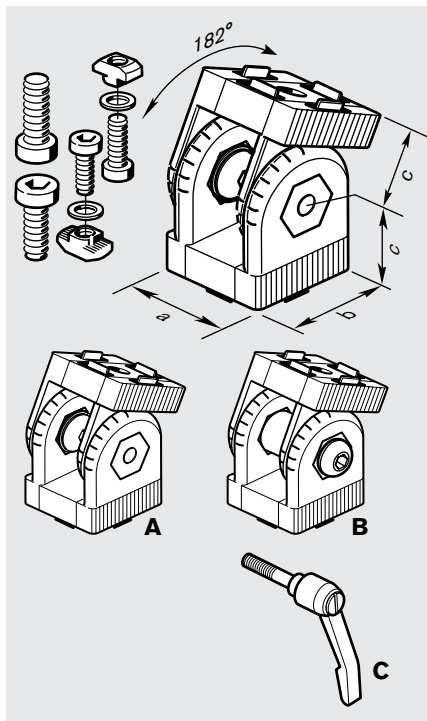
Description

Description	Lot Size*	Part Number
30x30 multi-angle connector kit designLINE	1	3 842 538 683
30x30 multi-angle connector kit	1	3 842 502 683
30mm bolt connector kit**	10	3 842 535 624

**One kit required for each end connection

* For smaller quantities, please contact your local distributor.

40x40 Multi-Angle Connector Kit

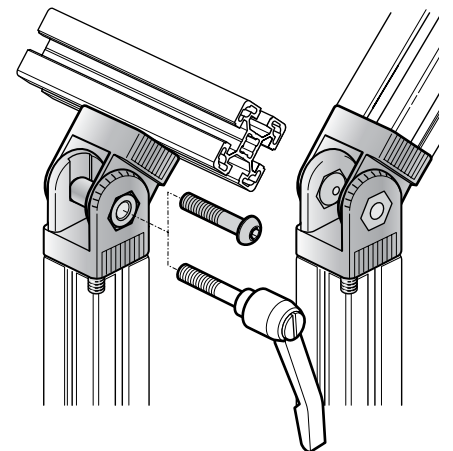


Features:

- Connect two profiles with 10mm T-slots side-by-side
- Connect the end of any 40x40 profile to the side of a profile with 10mm T-slots
- Connect any two 40x40 profiles end-to-end
- Available as standard or lockable version (locking handle sold separately below)
- Includes all fasteners, no machining required

Material:

- Joint components: die-cast zinc, nickel-plated



Description

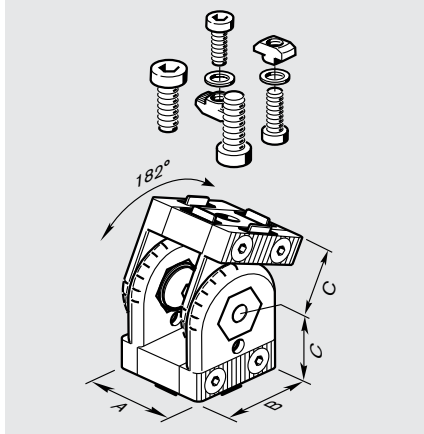
Description	Lot Size	Part Number
A 40x40 multi-angle connector kit designLINE	1	3 842 538 684
A 40x40 multi-angle connector kit	1	3 842 532 235
B 40x40 multi-angle conn. kit, lockable designLINE*	1	3 842 538 685
B 40x40 multi-angle conn. kit, lockable*	1	3 842 532 364
C Locking handle, 40mm	1	3 842 516 847

*Requires locking handle, sold separately

Section 3: Profile Connectors

45mm and 60mm Multi-Angle Connector Kit 

3

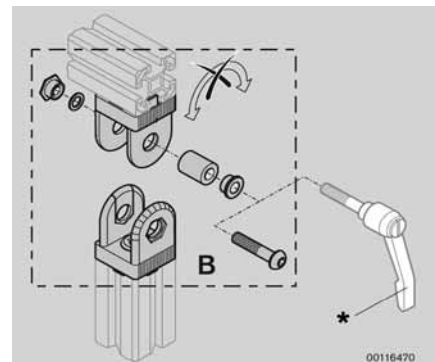
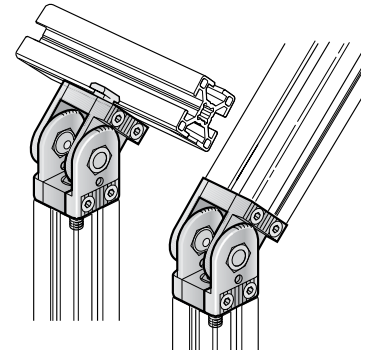


Features:

- Create a side-to-side, end-to-side, or end-to-end connection
- Allows angle to be adjusted without loosening any screws or T-nuts, or can be pinned in place for a fixed connection
- Maximum torque loading
- Includes all fasteners, no machining required

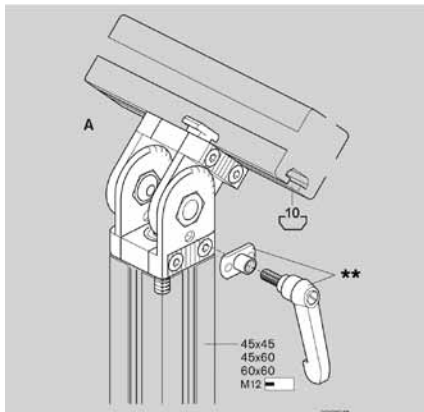
Material:

- Joint components: die-cast zinc, nickel-plated



Multi-Angle Connector	Dimension in mm			max. in Nm with pin
	A	B	C	
45x45	45	45	38	15*
45x60	60	45	38	15*
60x45	45	60	45.5	15*
60x60	60	60	45.5	15*

* Max. torque with handle is 5Nm



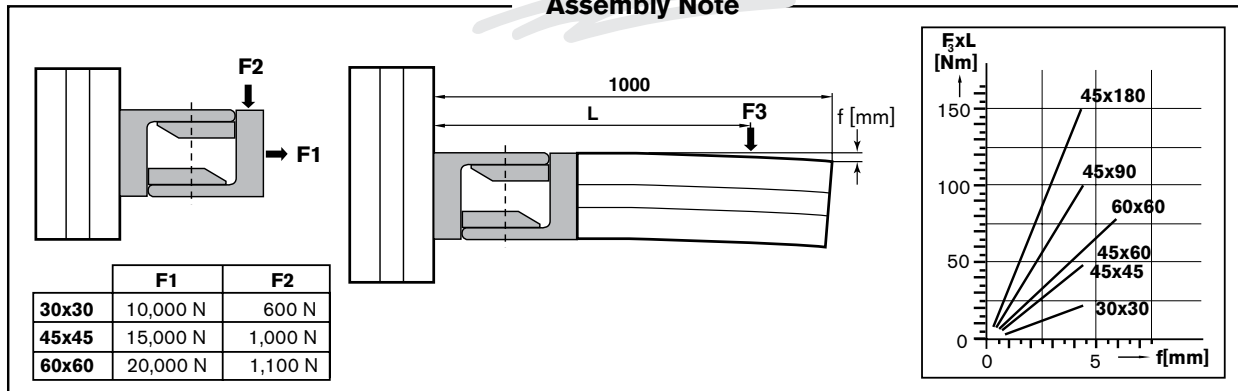
Description

Lot Size

Part Number

45x45 multi-angle connector kit designLINE	1	3 842 538 686
45x45 multi-angle conn. kit, lockable designLINE	1	3 842 538 687
Locking Handle 45mm*, sold separately	1	3 842 538 607
60x45 multi-angle connector kit designLINE	1	3 842 539 799
60x60 multi-angle connector kit designLINE	1	3 842 539 800
45x45 multi-angle connector kit	1	3 842 502 684
45x60 multi-angle connector kit	1	3 842 502 685
60x45 multi-angle connector kit	1	3 842 502 688
60x60 multi-angle connector kit	1	3 842 502 687
Locking Handle kit**, sold separately	1	3 842 505 144

Assembly Note



Section 3: Profile Connectors

Multi-Angle Connectors

Variable Angle Bolt Connectors 8 10

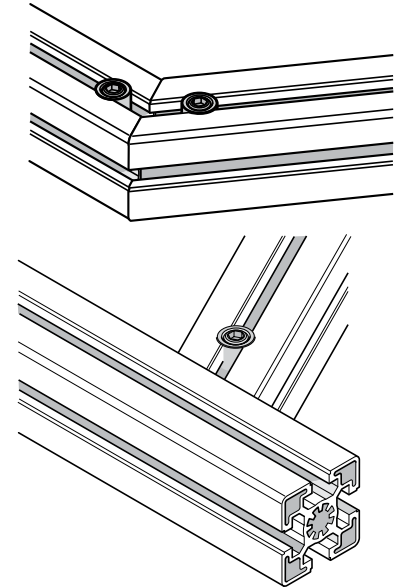
Features:

- Provide a simple and easy way to connect profiles at various angles
- Allow one-time bend to desired angle, with correction bend of up to 10°
- Keep three T-slots open for panels or accessories
- Use drilling/boring jigs (listed below) for proper through-hole spacing

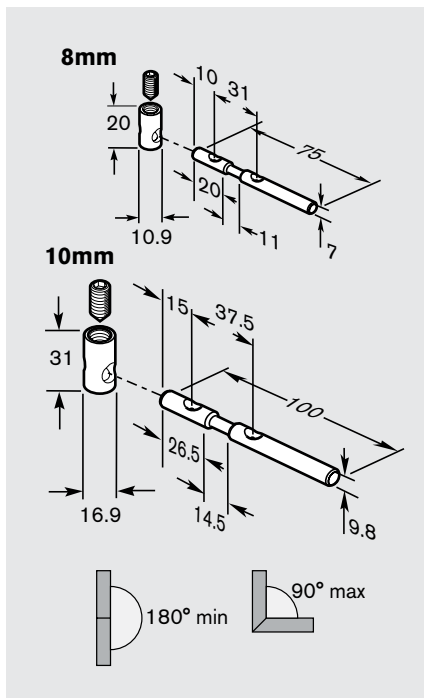
Material:

- Tie-rod: stainless steel
- Barrel: galvanized steel

	30x30	45x45	45x45H
	24 Nm	110 Nm	145 Nm
	1100 N	1500 N	1500 N
	35 Nm	120 Nm	140 Nm
	650 N	1000 N	1100 N
	40 Nm	95 Nm	180 Nm



End-to-End Variable Angle Bolt Connectors

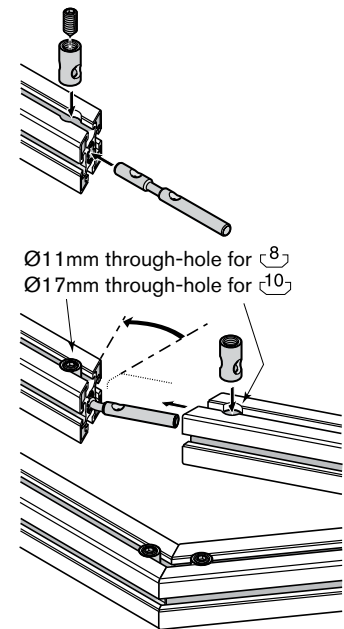


Features:

- Allowable angle up to 90°
- Connects two profiles end-to-end

Machining required:

- 11mm through-hole (8mm profiles) or 17mm through-hole (10mm profiles) in both profiles



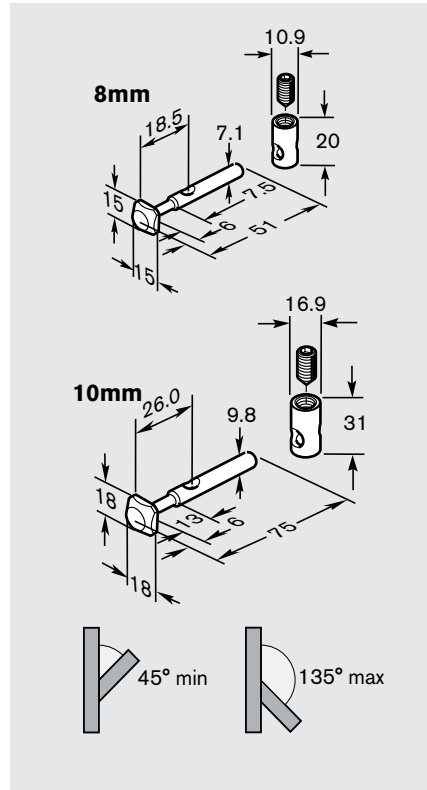
Description	Lot Size*	Part Number
8mm end-to-end variable angle bolt connector	10	3 842 535 630
10mm end-to-end variable angle bolt connector	10	3 842 535 634

* For smaller quantities, please contact your local distributor.

Section 3: Profile Connectors

3

End-to-Side Variable Angle Bolt Connectors

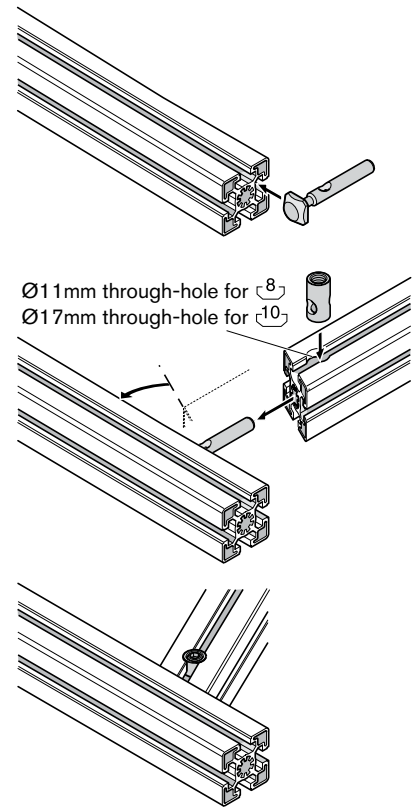


Features:

- Allows angles from 45° to 135°
- Connects the end of one profile to the side of another

Machining required:

- 11mm through-hole (8mm profiles) or 17mm through-hole (10mm profiles) in both profiles

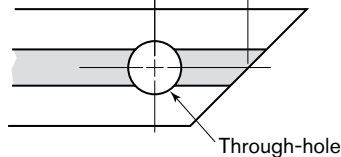


Assembly Note

When making angled connections, locate through-holes in the profiles as specified below. Use the 8mm or 10mm drilling/boring jig (sold at right, or see the Tools section for details) for proper spacing.

Ø11mm hole → 18.0 →

Ø17mm hole → 22.5 →



Prior to installation, bend connector to within ±10° of desired angle

Description	Lot Size*	Part Number
8mm end-to-side variable angle bolt connector	10	3 842 535 629
10mm end-to-side variable angle bolt connector	10	3 842 535 635

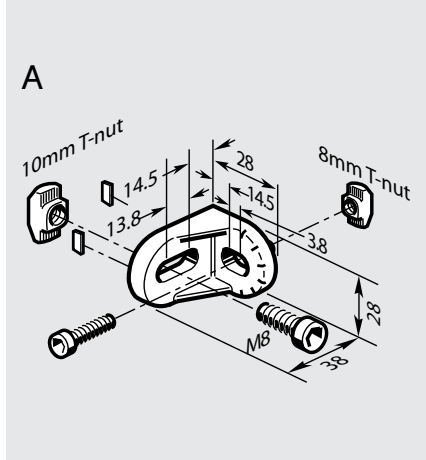
* For smaller quantities, please contact your local distributor.

Description	Lot Size	Part Number
8mm drilling/boring jig	1	3 842 516 729
10mm drilling/boring jig	1	3 842 516 731

Section 3: Profile Connectors

Joining Plates

Adjustable Angle Gusset Kits

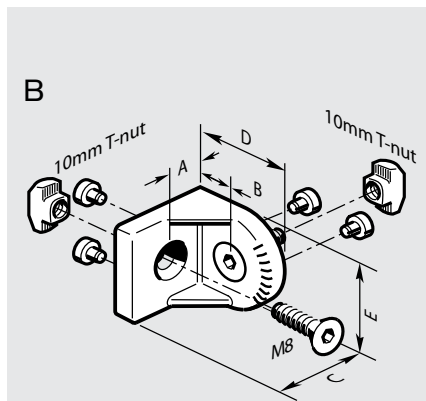
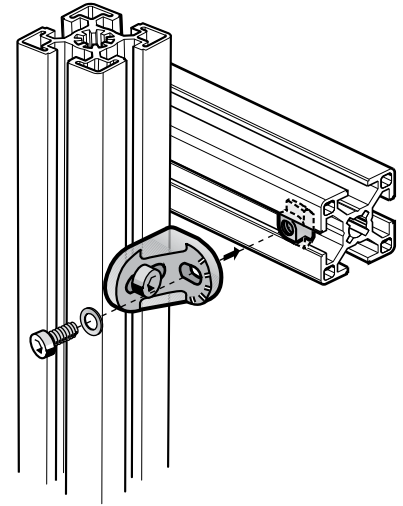


Features:

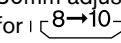
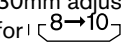
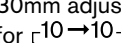
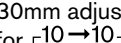
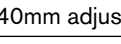
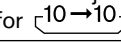
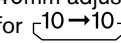
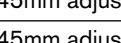
- Allows quick adjustment to any angle
- Connects anywhere along profile T-slots
- Optional T-slot alignment pins simplify positioning and assembly
- Available as gusset only or as a kit with mounting hardware

Material:

- Gusset: die-cast zinc
- Mounting hardware: zinc-plated steel
- Alignment pins and adapters: black polyamide 6



Adjustable Angle Gusset Size	Dimension in mm				
	A	B	C	D	E
40mm	20	20	37.5	37.5	35
45mm	22.5	22.5	42.5	43	40

Description	Lot Size	Part Number
A 30mm adjustable angle gusset only	1	3 842 515 473
A 30mm adjustable angle gusset kit for  designLINE	1	3 842 538 703
A 30mm adjustable angle gusset kit for 	1	3 842 515 547
A 30mm adjustable angle gusset kit for  designLINE	1	3 842 538 704
A 30mm adjustable angle gusset kit for 	1	3 842 521 580
B 40mm adjustable angle gusset only	1	3 842 529 020
B 40mm adjustable angle gusset kit for  designLINE	1	3 842 538 705
B 40mm adjustable angle gusset kit for 	1	3 842 532 274
B 45mm adjustable angle gusset only	1	3 842 504 760
B 45mm adjustable angle gusset kit for  designLINE	1	3 842 538 706
B 45mm adjustable angle gusset kit for 	1	3 842 518 424

Section 3: Profile Connectors

3

Features:

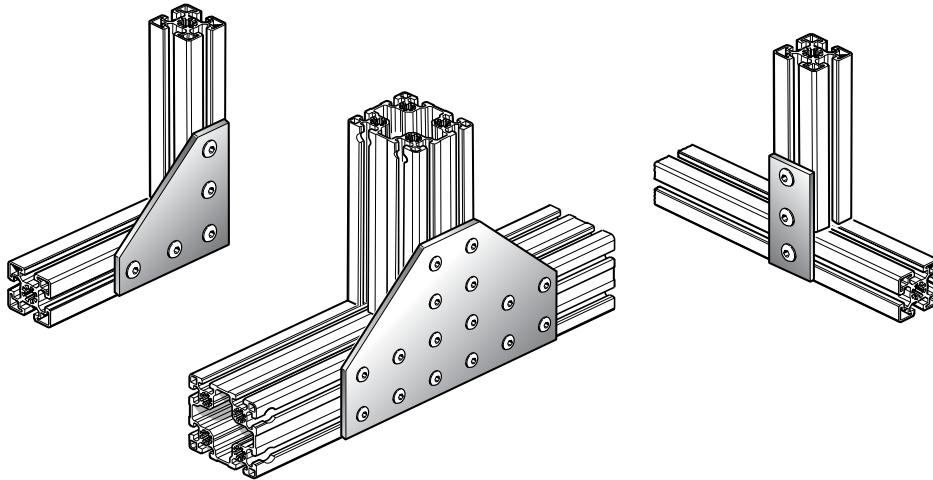
- Fasten to the outside faces of the profiles, leaving the inner T-slots free for panels or accessories.
- Can be added to reinforce a structure after initial assembly
- Three different styles available in a variety of sizes

Material:

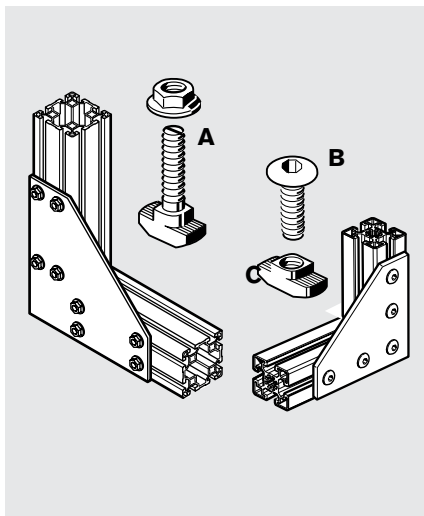
- 30-, 45-, and 90-series: clear anodized 6063-T6 aluminum

Recommended fasteners (order below):

- 30-series (8mm T-slots): M6x12 BHCS DIN 9427 and M6 8mm T-nut OR 8mm T-bolt fastening kit, L=23mm
- 45-, and 90-series (10mm T-slots): M8x16 BHCS DIN 9427 and M8 10mm T-nut OR 10mm T-bolt fastening kit, L=24mm



Fasteners for Joining Plates 8 10



Features:

- Use 8mm fasteners for attaching joining plates to 30-series profiles
- Use 10mm fasteners for attaching joining plates to 45-, and 90-series profiles

- Use button-head cap screws and T-nuts to create a high-tech, smooth "riveted" look, or use T-bolt kits for a more rugged look

Material:

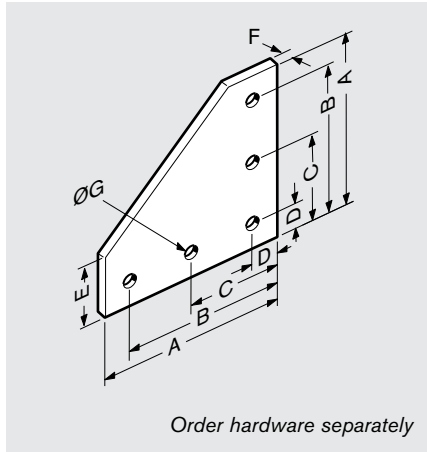
- Zinc-plated steel

Description	Lot Size	Part Number
A 8mm T-bolt fastening kit, L=23mm 8	1	8 981 019 579
B M6x12 BHCS, DIN 9427 8	1	3 842 507 071
C 8mm M6 T-nut 8	1	3 842 501 753
A 10mm T-bolt fastening kit, L=24mm 10	1	8 981 021 344
B M8x16 BHCS, DIN 9427 10	1	3 842 509 423
C 10mm M8 T-nut 10	1	3 842 530 287

Section 3: Profile Connectors

Joining Plates

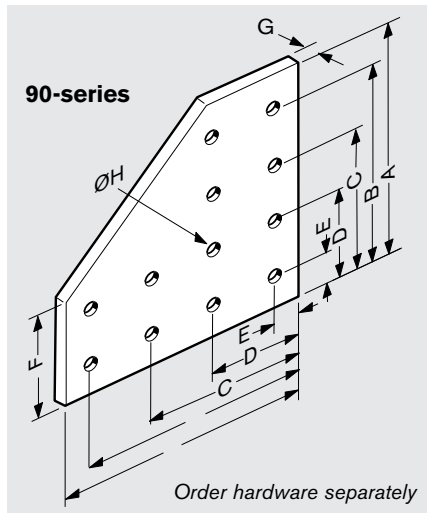
Corner Joining Plates for 30- and 45-series profiles 8 10



Corner Joining Plate	Dimension in mm						
	A	B	C	D	E	F	ØG
30-series	84	72	42	12	24	5	6.2
45-series	129	109.5	64.5	19.5	39	6.5	8.3

Description	Lot Size	Part Number
30-series corner joining plate 8	1	8 981 019 457
45-series corner joining plate 10	1	8 981 019 448

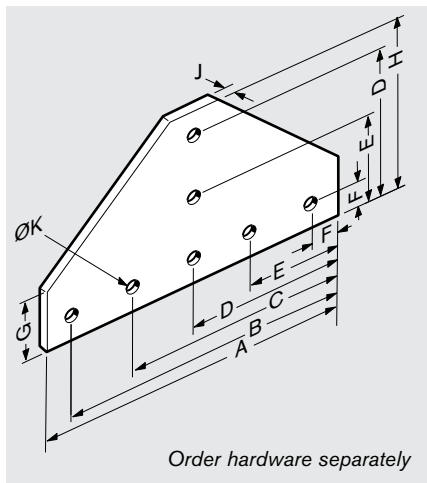
Corner Joining Plates for 90 series profiles 10



Corner Joining Plate	Dimension in mm							
	A	B	C	D	E	F	G	ØH
90-series	174	154.5	109.5	64.5	19.5	84	6.5	8.3

Description	Lot Size	Part Number
90-series corner joining plate 10	1	8 981 019 452

T-Junction Joining Plates for 30- and 45-series profiles 8 10



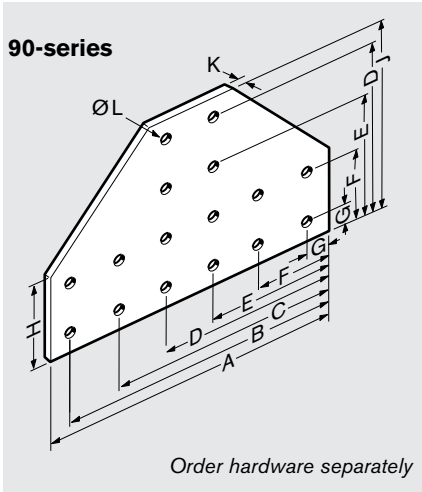
T-Junction Joining Plate	Dimension in mm									
	A	B	C	D	E	F	G	H	J	ØK
30-series	144	132	102	72	42	12	24	84	5	6.2
45-series	219	199.5	154.5	109.5	64.5	19.5	39	129	6.5	8.3

Description	Lot Size	Part Number
30-series T-junction joining plate 8	1	8 981 019 461
45-series T-junction joining plate 10	1	8 981 019 450

Section 3: Profile Connectors

3

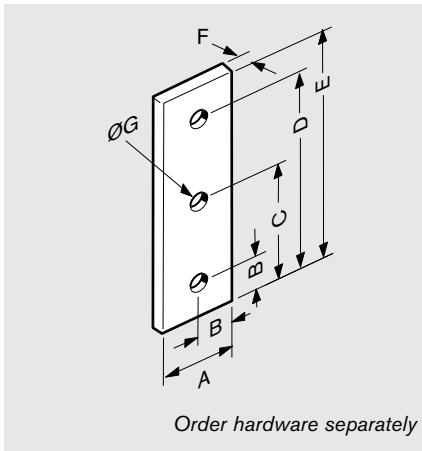
T-Junction Joining Plates for 90 series profiles 8 10



T-Junction Joining Plate	Dimension in mm											
	A	B	C	D	E	F	G	G ₁	H	J	K	ØL
90-series	264	244.5	199.5	154.5	109.5	64.5	19.5	-	84	174	6.5	8.3

Description	Lot Size	Part Number
90-series T-junction joining plate 10	1	8 981 019 455

Rectangular Joining Plates for 30- and 45-series profiles 8 10



Rectangular Joining Plate	Dimension in mm						
	A	B	C	D	E	F	ØG
30-series	24	12	42	72	84	5	6.2
45-series	39	19.5	64.5	109.5	129	6.5	8.3

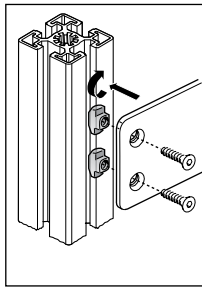
Description	Lot Size	Part Number
30-series rectangular joining plate 8	1	8 981 019 458
45-series rectangular joining plate 10	1	8 981 019 449

Section 4: Fasteners

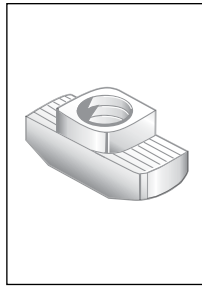
Overview

Bosch Rexroth offers a wide selection of fasteners to connect components and accessories to profiles using the T-slot. All fasteners are designed for quick, easy installation and have a large surface area

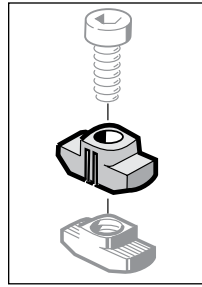
to provide strong, secure fastening. Also, many have grooved surfaces to resist loosening and provide ESD protection.



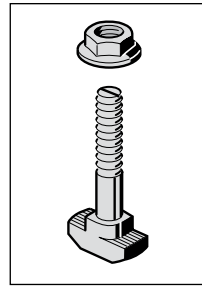
T-Nuts
4-1 & 4-2



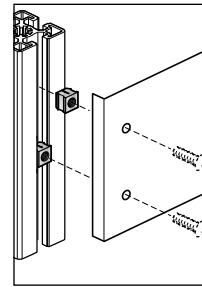
Stainless Steel
T-Nut
4-2



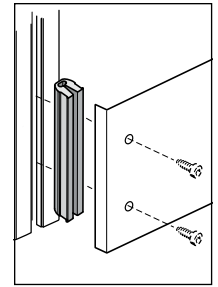
Isolation Cap for
8mm T-Nut
4-2



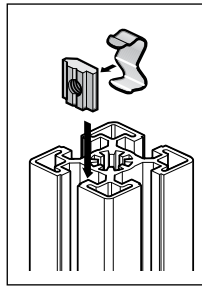
T-Bolt
Fastening Kits
4-3



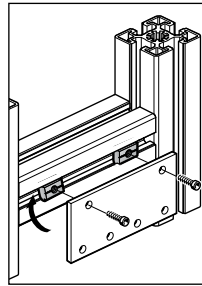
Plastic T-Nut
4-4



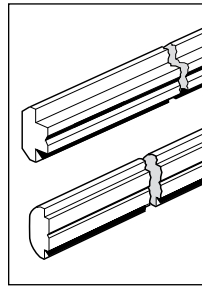
8mm & 10mm
Mounting Strips
4-4



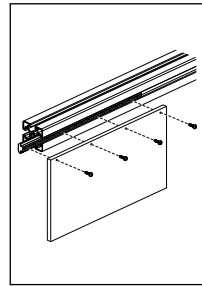
T-Blocks &
Springs
4-5



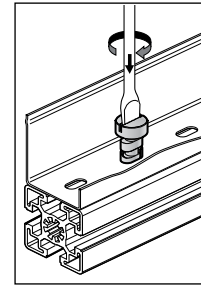
Swivel-In T-Blocks
& Swivel-In
T-Blocks
with Springs
4-6



T-Bars &
Swivel-In T-Bars
4-7



Anchor Strips
4-8



Quick-Lock Sheet
Metal Fasteners
4-8

Design Engineering Tip

Exclusive Design Features
Many accessories have features that speed assembly. For example, our T-bolts have an alignment mark on the end of the threads to indicate position in the T-slot. Simply visually check to make sure the mark is perpendicular to the T-slot, then you'll know the T-bolt is locked in position for maximum holding power.

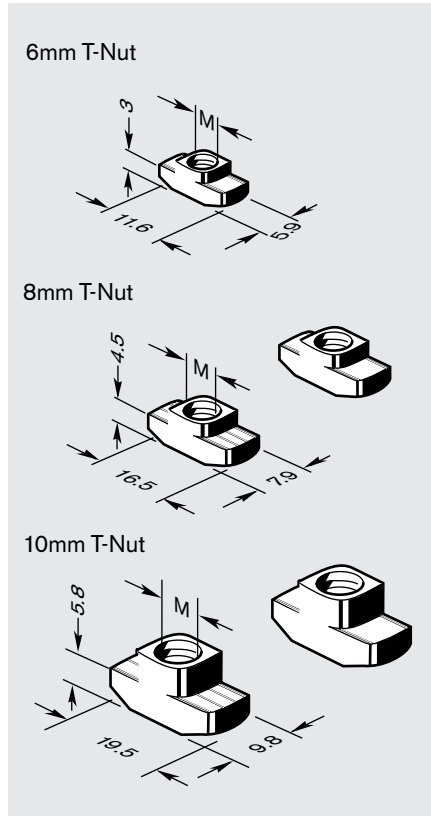
Alignment Mark

Section 4: Fasteners

Fasteners

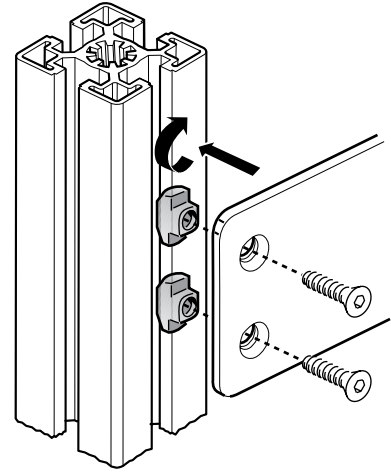
T-Nuts 6 8 10 **GoTo**

4



Features:

- Installs anywhere along the profile's T-slot and rotates into position
- Ridges "bite" into profile to lock the T-nut into position, and provide ESD protection and resistance to vibration
- Large contact surface improves gripping strength
- Tapered neck simplifies assembly; T-nut is self-aligning in T-slot
- M4 & M5 threads have 2 ridges
- M6 & M8 threads have 4 ridges
- 8-32 & 10-32 have 2 ridges
- 1/4" & 5/16" have 4 ridges



Material:

- Zinc-plated 8.8 steel (except as noted below)

Description	Tightening Torque (± 5%)	Lot Size	Part Number
6mm T-Nut 6			
M4	2.5 Nm	1	3 842 523 135 <i>GoTo</i>
8mm T-Nuts 8			
M4	2.5 Nm	1	3 842 501 751 <i>GoTo</i>
M5	5 Nm	1	3 842 501 752 <i>GoTo</i>
M6	10 Nm	1	3 842 501 753 <i>GoTo</i>
M6, nickel-plated	10 Nm	1	8 981 020 861
1/4"x20 U.N.C.	10 Nm	1	8 981 016 124
8-32 U.N.C.	10 Nm	1	8 981 016 122
10-32 U.N.F.	10 Nm	1	8 981 016 123
10mm T-Nuts 10			
M4	2.5 Nm	1	3 842 530 281 <i>GoTo</i>
M5	5 Nm	1	3 842 530 283 <i>GoTo</i>
M6	10 Nm	1	3 842 530 285 <i>GoTo</i>
M8	25 Nm	1	3 842 530 287 <i>GoTo</i>
M8, nickel-plated	25 Nm	1	8 981 019 580
1/4"x20 U.N.C.	10 Nm	1	8 981 021 323 <i>GoTo</i>
8-32 U.N.C.	10 Nm	1	8 981 021 321
10-32 U.N.F.	10 Nm	1	8 981 021 322
5/16"x18 U.N.C.	25 Nm	1	8 981 021 324 <i>GoTo</i>

Helpful Hint

Die-cast nut gives maximum material thickness for more thread engagement.



Tapered design is self-aligning and locks in T-slot.



Ridges bite through the anodized surface for the best possible ESD connection and vibration resistance.

Section 4: Fasteners

Fasteners

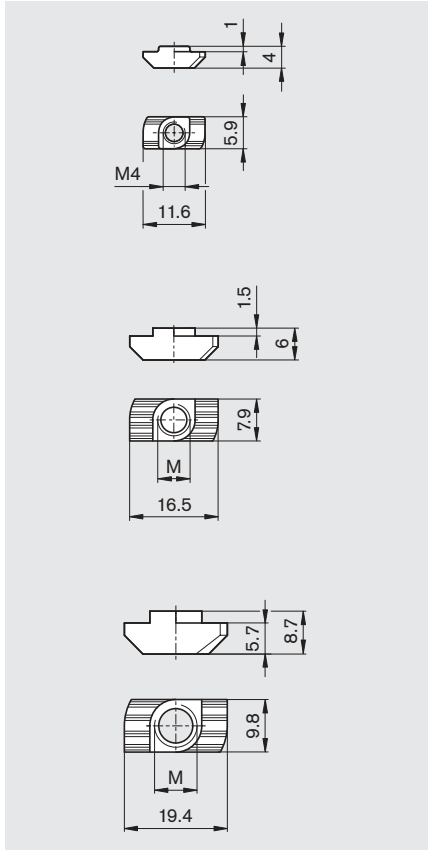
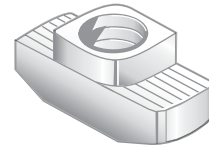
Stainless Steel T-Nuts 6 8 10



4

Material:

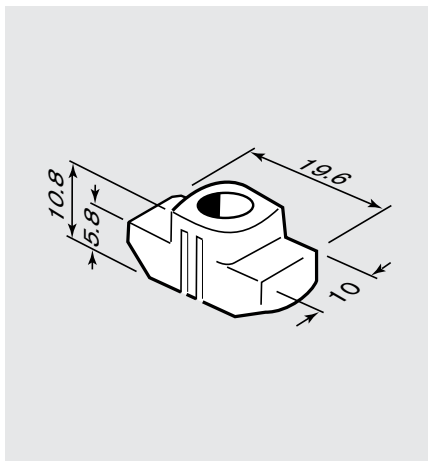
- Stainless Steel 316



Description	Tightening Torque (± 5%)	Lot Size*	Part Number
6mm T-Nut			
M4	2.5 Nm	100	3 842 536 599
8mm T-Nuts			
M4	2.5 Nm	100	3 842 536 600
M5	5 Nm	100	3 842 536 601
M6	10 Nm	100	3 842 536 602
10mm T-Nuts			
M4	2.5 Nm	100	3 842 536 606
M5	5 Nm	100	3 842 536 605
M6	10 Nm	100	3 842 536 604
M8	25 Nm	100	3 842 536 603

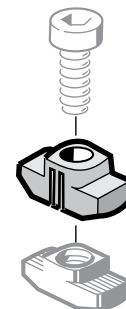
* For smaller quantities, please contact your local distributor.

Isolation Cap for 8mm T-Nut 10



Features:

- Insulated cover clips onto an 8mm T-Nut to create an insulated 10mm T-Nut
- Used to isolate grounded electrical devices, such as light fixtures or outlet strips, from sensitive ESD components on aluminum profile structures
- Easy snap-on assembly
- Allows use of 8mm T-nuts in 10mm T-slots



Material:

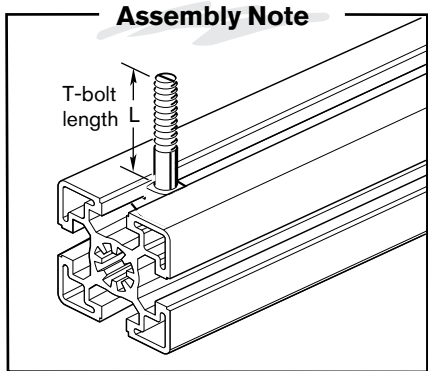
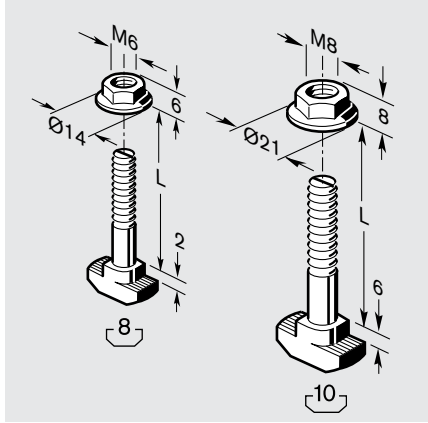
- Black polyamide 6

Description	Lot Size*	Part Number
Isolation cap for 8mm T-nut	10	3 842 524 012

* For smaller quantities, please contact your local distributor.

Section 4: Fasteners

T-Bolt Fastening Kits    **GoTo**

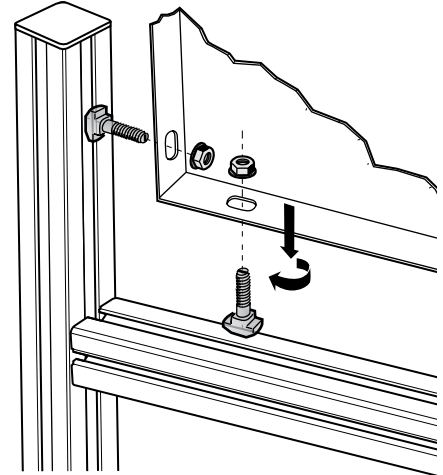




Features:

- Installs anywhere along the profile's T-slot and rotates into position
- Grooves "bite" into profile to lock the T-bolt into position, and provide ESD protection and resistance to vibration
- Large contact surface improves gripping strength
- Tapered neck simplifies assembly; T-bolt is self-aligning in T-slot
- Alignment groove on the end of the bolt shaft shows when it is properly aligned in the T-slot

Material:

- Zinc-plated industrial grade 8.8 steel

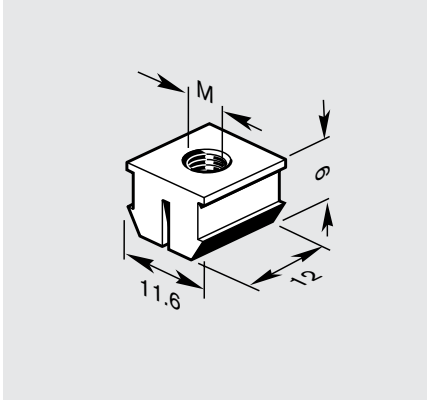


Description	Tightening Torque (± 5%)	Lot Size	Part Number
8mm T-Bolt Fastening Kits 			
L = 5/8", 1/4-20 T-bolt fastening kit	10 Nm	1	8 981 021 556
L = ", 1/4-20 T-bolt fastening kit	10 Nm	1	8 981 021 557
L = 14mm, T-bolt fastening kit	10 Nm	1	8 981 019 577 <i>GoTo</i>
L = 18mm, T-bolt fastening kit	10 Nm	1	8 981 019 578 <i>GoTo</i>
L = 23mm, T-bolt fastening kit	10 Nm	1	8 981 019 579
M6 flange nut only	10 Nm	1	3 842 523 925
1/4-20 flange nut only	25 Nm	1	8 981 021 465
10mm T-Bolt Fastening Kits 			
L = ", 5/16-18 T-bolt fastening kit	25 Nm	1	8 981 021 554
L = 1", 5/16-18 T-bolt fastening kit	25 Nm	1	8 981 021 555
L = 14mm, T-bolt fastening kit	25 Nm	1	8 981 021 342 <i>GoTo</i>
L = 19mm, T-bolt fastening kit	25 Nm	1	8 981 021 343 <i>GoTo</i>
L = 24mm, T-bolt fastening kit	25 Nm	1	8 981 021 344 <i>GoTo</i>
L = 34mm, T-bolt fastening kit	25 Nm	1	8 981 021 345 <i>GoTo</i>
L = 44mm, T-bolt fastening kit	25 Nm	1	8 981 021 346
L = 54mm, T-bolt fastening kit	25 Nm	1	8 981 021 347
M8 flange nut only	25 Nm	1	3 842 345 081 <i>GoTo</i>
5/16-18 flange nut only	25 Nm	1	8 981 021 464

Section 4: Fasteners

Fasteners

Plastic T-Nut ¹⁰

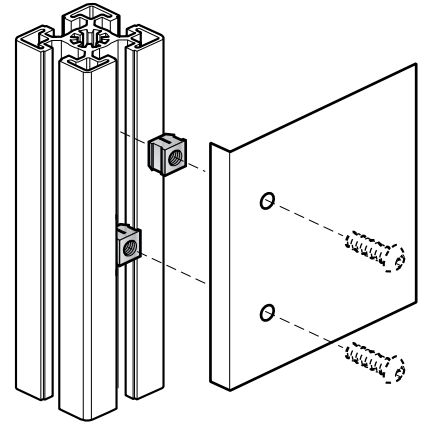


Features:

- Ideal for attaching light loads such as proximity sensors or identification tags to profiles with 10mm T-slots
- Provides electrical isolation and prevents inadvertent introduction of circuit ground
- Snap into T-slot for easy installation and positioning, even in vertical T-slots

Material:

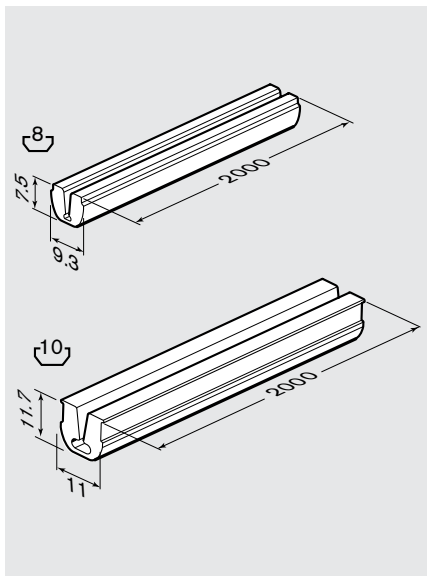
- Black polyamide 6



Description	Tightening Torque (± 5%)	Lot Size*	Part Number
M4 plastic T-nut	0.5 Nm	100	3 842 111 987
M5 plastic T-nut	1.0 Nm	100	3 842 111 988
M6 plastic T-nut	2.2 Nm	100	3 842 111 989

* For smaller quantities, please contact your local distributor.

8mm & 10mm Mounting Strips ⁸ ¹⁰

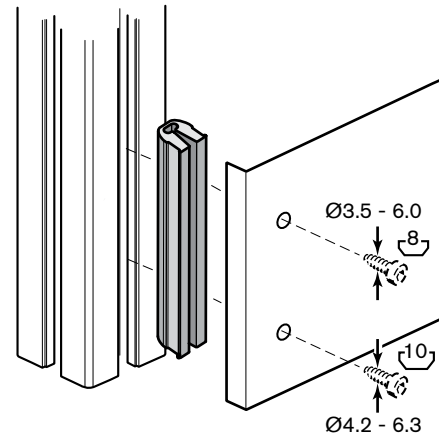


Features:

- Ideal for attaching panels, switches, valves, and other accessories
- Screws can be attached anywhere along T-slot without drilling
- Snaps into T-slot for easy installation and positioning, then expands as screw is installed, locking it in place
- Delivered in 2000mm long strips; can be easily cut to length

Material:

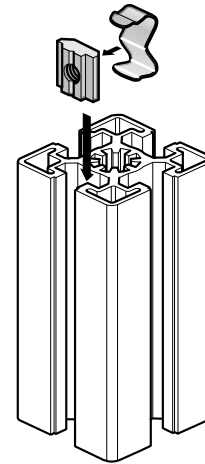
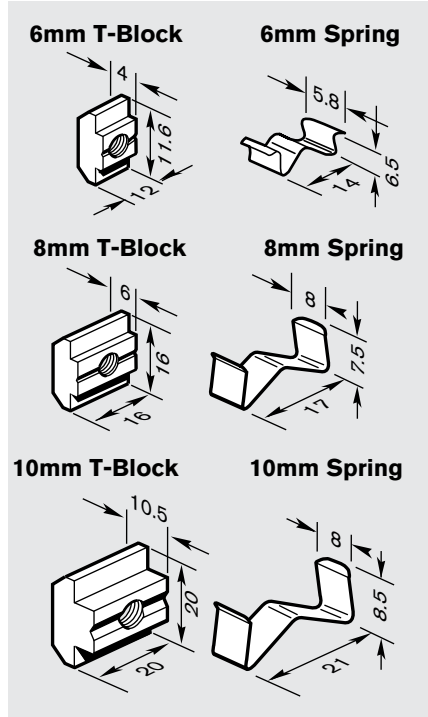
- Light gray PVC



Description	Lot Size	Part Number
Mounting strip, 8mm	1	3 842 524 069
Mounting strip, 10mm	1	3 842 524 072

Section 4: Fasteners

T-Blocks and Springs ⁶ ⁸ ¹⁰ **GoTo**



Features:

- Slide into ends of T-slot
- Used to fasten heavy loads to T-slotted profiles; seven-thread engagement for strong, secure mounting
- Large contact surface with inside of profile's T-slot provides secure fastening
- Can be easily repositioned in T-slot
- Spring can be used on any 6mm, 8mm, or heavy (H-series) 10mm T-slot to hold T-block in place while making vertical connections

Material:

- 6mm: stainless steel
- 8mm and 10mm: zinc-plated steel
- Spring: spring steel

Helpful Hint

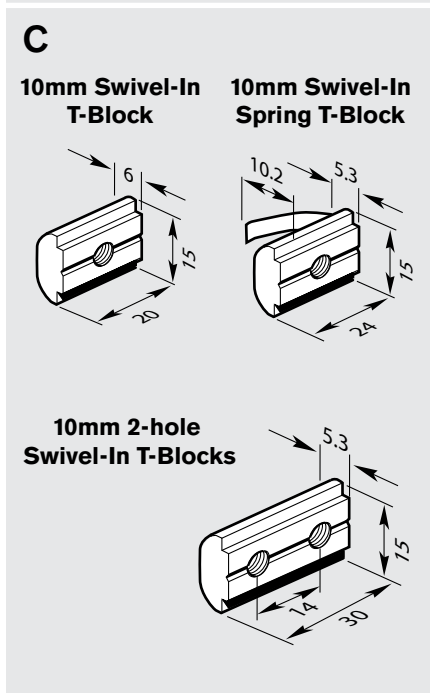
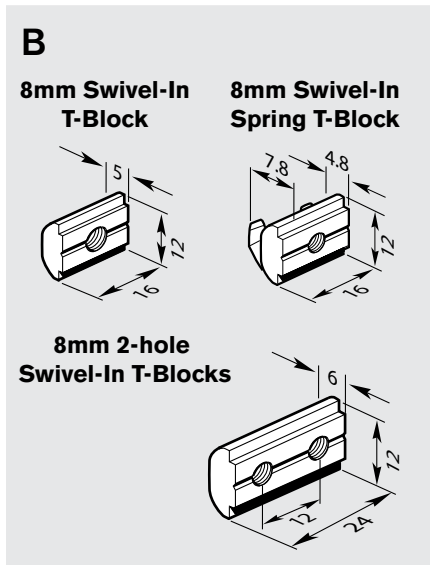
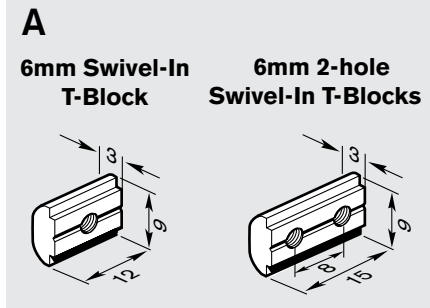
To simplify installation, use a spring to hold the T-block in position in the T-slot while making vertical connections.

Description	Tightening Torque (± 5%)	Lot Size	Part Number
6mm T-Blocks ⁶			
M4	2.5 Nm	1	3 842 523 140 <i>GoTo</i>
M5	5 Nm	1	3 842 523 142
Spring for 6mm T-block		1	3 842 523 145 <i>GoTo</i>
8mm T-Blocks ⁸			
M4	2.5 Nm	1	3 842 514 928
M5	5 Nm	1	3 842 514 929 <i>GoTo</i>
M6	10 Nm	1	3 842 514 930 <i>GoTo</i>
M8	25 Nm	1	3 842 514 931 <i>GoTo</i>
Spring for 8mm T-block		1	3 842 516 685 <i>GoTo</i>
10mm T-Blocks ¹⁰			
M5	5 Nm	1	3 842 528 741
M6	10 Nm	1	3 842 528 738 <i>GoTo</i>
M8	25 Nm	1	3 842 528 735 <i>GoTo</i>
Spring for 10mm T-block		1	3 842 516 669 <i>GoTo</i>

Section 4: Fasteners

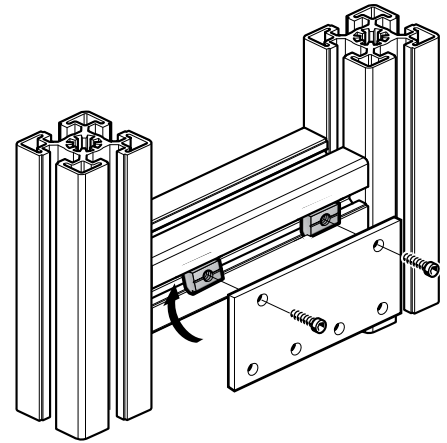
Fasteners

Swivel-In T-Blocks **GoTo**






Features:

- Can be inserted anywhere along the profile's T-slot, even after the structure has been built
- Used to fasten heavy loads to T-slotted profiles; seven-thread engagement for strong, secure mounting
- Large contact surface with inside of profile's T-slot provides secure fastening
- Can be easily repositioned in T-slot
- The swivel-in spring T-block is similar to standard swivel-in T-blocks, but adds an integrated spring to hold the T-block in place while making vertical connections



Material:

- T-block: Zinc-plated grade 8 steel (except as noted below)
- Spring: spring steel

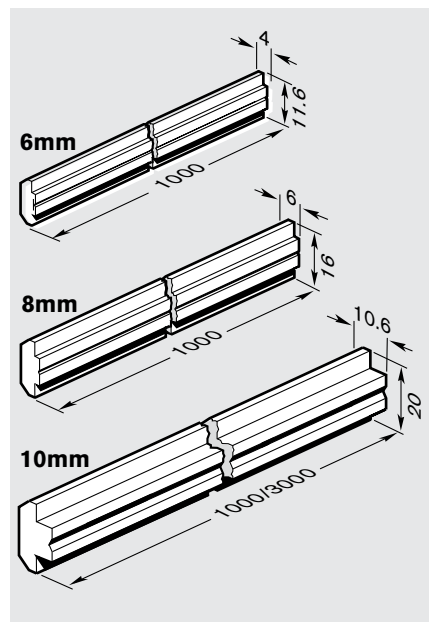
Description	Tightening Torque (± 5%)	Lot Size*	Part Number
A 6mm Swivel-In T-Blocks 			
M4	2.5 Nm	1	3 842 536 669
2 x M4, stainless steel	2.5 Nm	100	3 842 536 673
B 8mm Swivel-In T-Blocks 			
M5	5 Nm	1	3 842 529 319
M6	10 Nm	1	3 842 529 320
M8	25 Nm	1	3 842 529 321
M8, stainless steel	25 Nm	1	3 842 530 321
M5 with spring	5 Nm	1	3 842 529 295
M6 with spring	10 Nm	1	3 842 529 296
M8 with spring	25 Nm	1	3 842 529 297
2 x M5	5 Nm	100	3 842 536 675
C 10mm Swivel-In T-Blocks 			
M6	10 Nm	1	3 842 529 323
M8	25 Nm	1	3 842 529 324
M8, stainless steel	25 Nm	1	3 842 530 316
M5 with spring	5 Nm	1	3 842 529 298
M6 with spring	10 Nm	1	3 842 529 299
M8 with spring	25 Nm	1	3 842 529 300 GoTo
2 x M5	5 Nm	100	3 842 536 676
1/4-20	88 lb-in	1	8 981 021 441
5/16-18	221 lb-in	1	8 981 021 440
10-32	44 lb-in	1	8 981 021 442

* For smaller quantities, please contact your local distributor.

Section 4: Fasteners

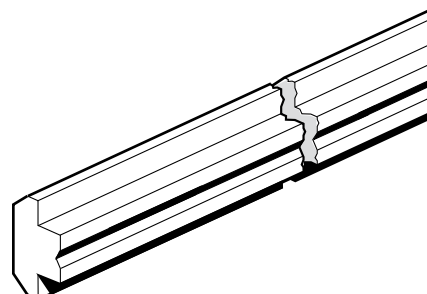
4

T-Bars 6 8 10



Features:

- Slide into ends of T-slot
- Make custom-sized T-slot fasteners and connectors for your application
- Provided as raw steel bar stock which may be cut to length, drilled and tapped up to 8mm (5/16")
- Center groove serves as drilling guide
- Large contact area with profile T-slot provides maximum strength



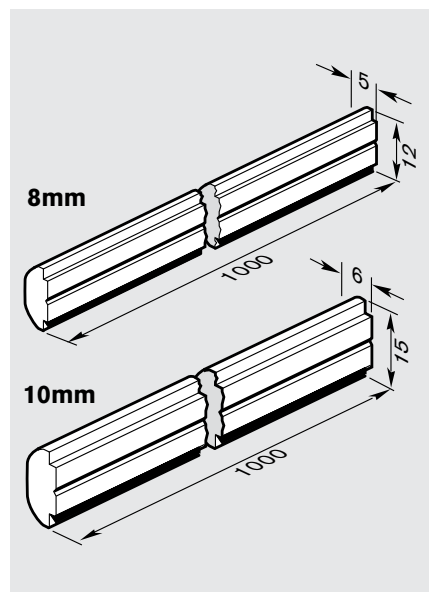
Material:

- 12L 14 cold-drawn steel

Description

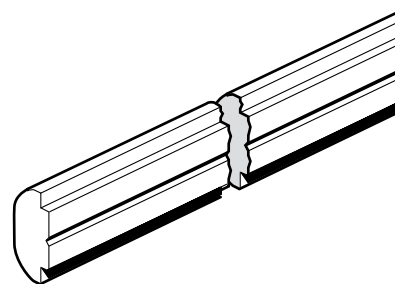
Description	Lot Size	Part Number
6mm T-bar, 1000mm long	1	3 842 523 438
8mm T-bar, 1000mm long	1	3 842 510 078
10mm T-bar, 1000mm long	1	3 842 528 744

Swivel-In T-Bars 8 10



Features:

- Can be inserted anywhere along the profile's T-slot, even after the structure has been built
- Make custom-sized T-slot fasteners and connectors for your application
- Provided as raw steel bar stock which may be cut to length, drilled and tapped up to 8mm (5/16")
- Center groove serves as drilling guide
- Large contact area with profile T-slot provides maximum strength



Material:

- 12L 14 cold-drawn steel

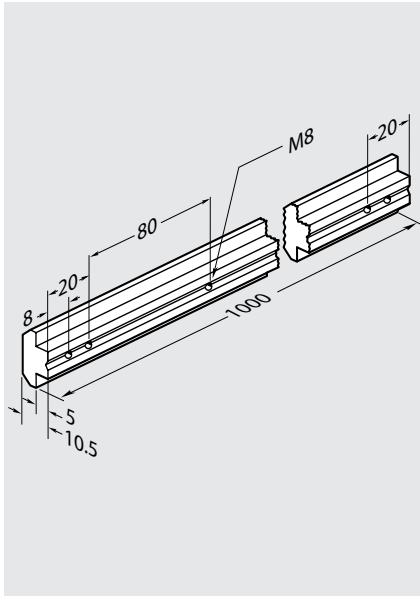
Description

Description	Lot Size	Part Number
8mm swivel-in T-bar, 1000mm long	1	3 842 529 327
10mm swivel-in T-bar, 1000mm long	1	3 842 529 325

Section 4: Fasteners

Fasteners

Anchor Strips ¹⁰

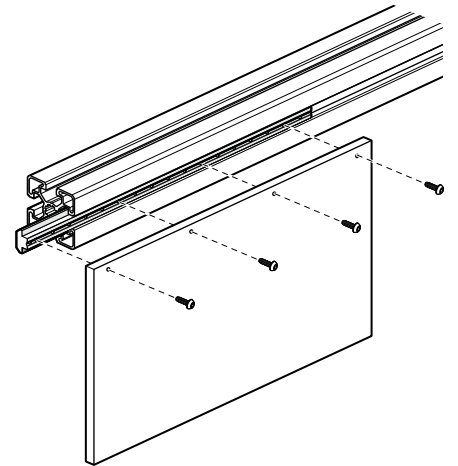


Features:

- Predrilled and tapped holes allow quick installation of components, equipment, etc.
- Large surface contact with T-slot provides a strong connection for heavy-duty applications
- Simplifies assembly of Rexroth Compact Modules to aluminum profile support structures
- Has M8 holes with 80mm spacing
- Sold in 1000mm lengths

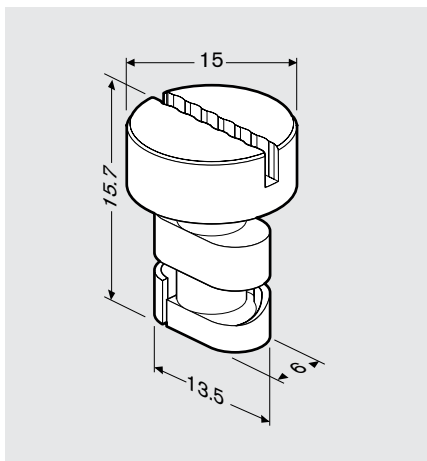
Material:

- 12L 14 cold-drawn steel



Description	Lot Size	Part Number
¹⁰ Anchor strip, M8x80, 1000mm long	1	8 981 022 125

Quick-Lock Sheet Material Fastener ¹⁰

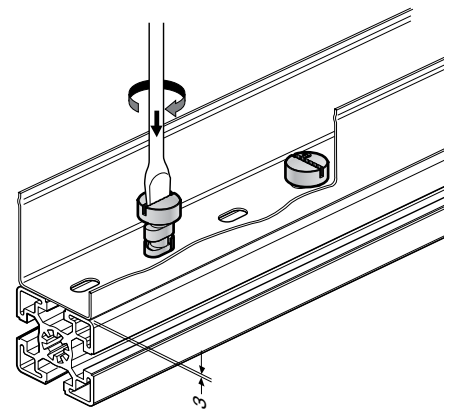


Features:

- Attaches sheet material up to 3mm thick to any 10mm T-slotted profile
- Sheet material must have slotted holes to accommodate fastener's locking lug
- Twist-locks into place in profile T-slot using a standard screwdriver

Material:

- Black polyamide 12



Description	Lot Size	Part Number
Quick-lock sheet material fastener	1	3 842 146 920

Section 4: Fasteners

Notes

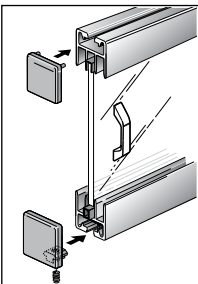
Section 5: Doors and Door Components

Overview

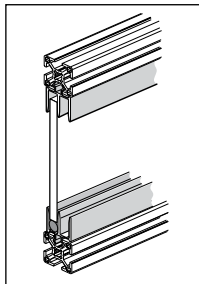
Whether you're looking for bi-fold doors, locking doors, sliding doors, or large walk-through doors, you'll find what you need on the following pages.

Bosch Rexroth offers a wide variety of door options to provide access for equipment or personnel quickly and conveniently.

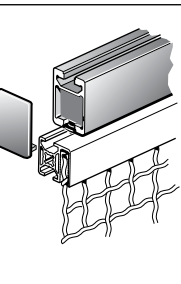
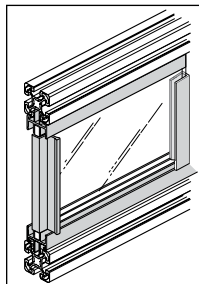
Door components are compatible with all other elements in the structural framing system, making it easy to enclose areas that have already been integrated into the system, secure work areas for maintenance or construction, or build partitions around workstations for privacy.



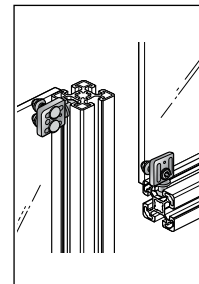
**45x45SD
Aluminum Sliding
Guide Profile and
Accessories**
5-3



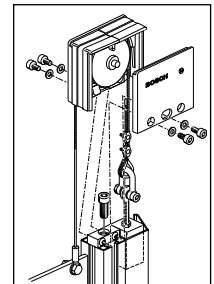
**Snap-In Sliding
Door Guides**
5-4



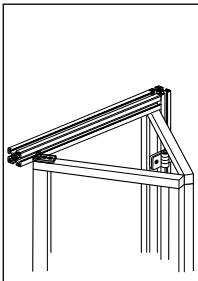
**Roller Channel
Profile C30x45**
5-6



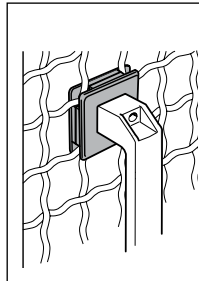
Panel Slider
5-7



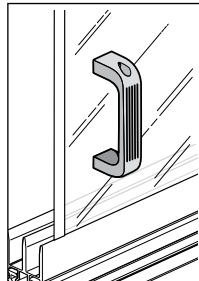
Counterbalance
5-7



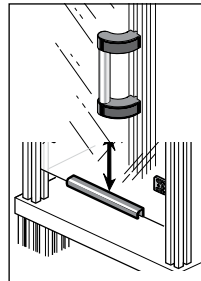
Folding Door Kit
5-8



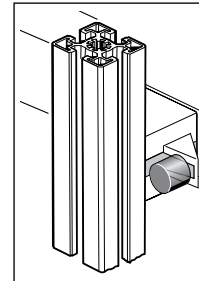
**Handle
Mounting Plate**
5-8



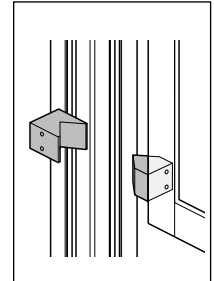
Strap Handles
5-9



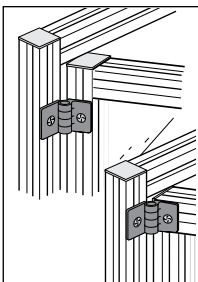
**Safety Handle &
Bar Handle**
5-9, 5-10



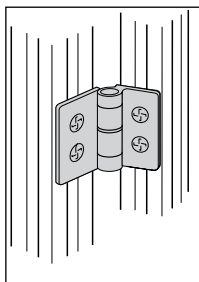
Door Stops
5-10



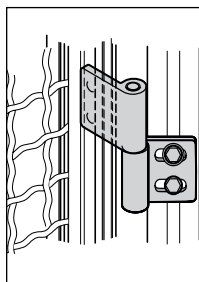
Sliding Door Stop
5-10



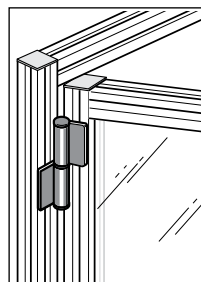
**Heavy-Duty
Hinges**
5-11



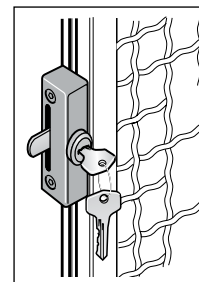
**Clean Room
Hinges**
5-12



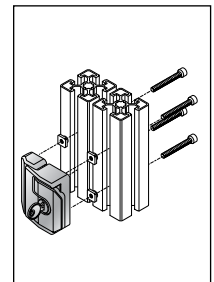
Adjustable Hinge
5-12



Lift-Off Hinges
5-13



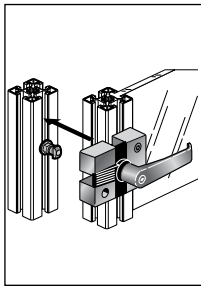
Standard Lock
5-14



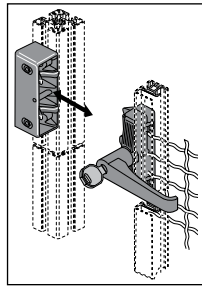
Compact Lock
5-14

Section 5: Doors and Door Components

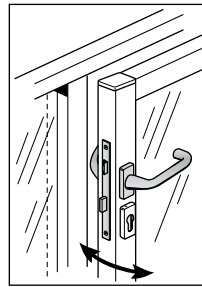
5



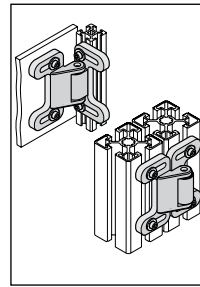
Locks for Swinging or Sliding Doors
5-15



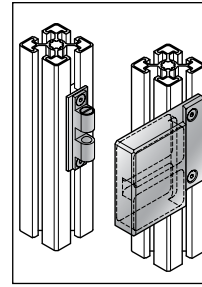
Locks for Sliding Doors
5-16



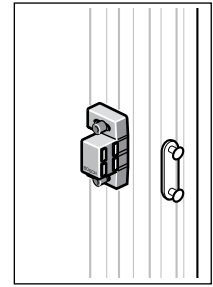
Locks for Heavy Swinging Doors
5-17



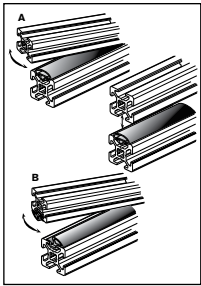
Ball Detent Latch
5-18



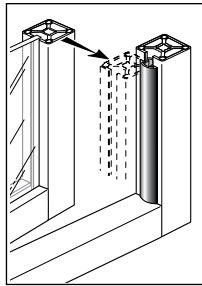
Universal Ball Detent Latch
5-18



Magnetic Latches
5-19



6mm Door Seals
5-20

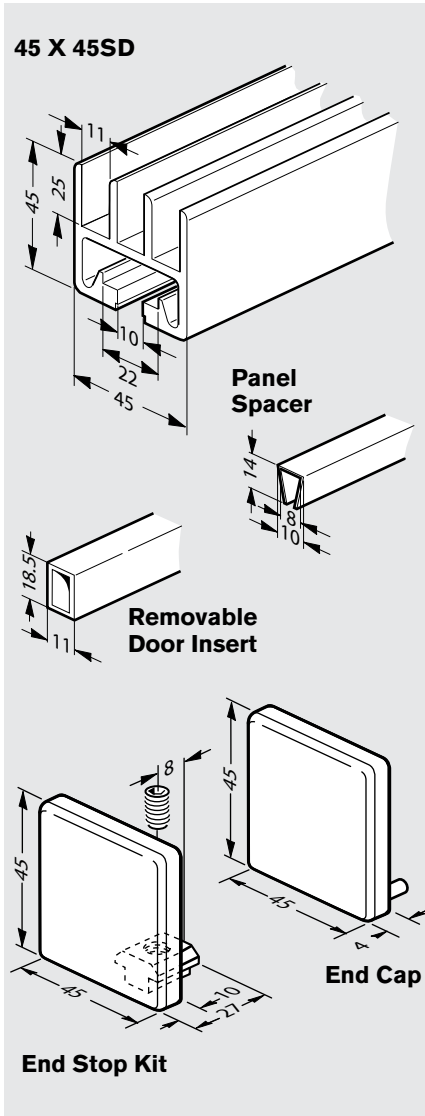


8mm and 10mm Door Seals
5-20

Section 5: Doors and Door Components

Doors and Door Components

45x45SD Aluminum Sliding Guide Profile and Accessories

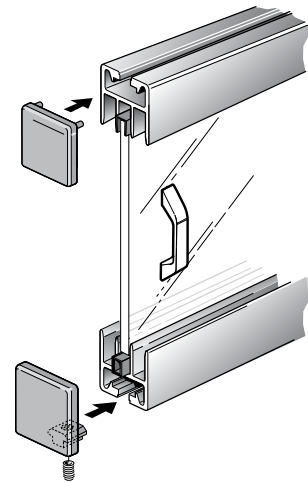


Features:

- Provides excellent sliding properties for heavier sliding doors and panels
- Upper and lower inserts help provide smooth door movement and support it securely in the groove
- Upper and lower inserts can also be used to make removable doors
- End stop kits secure in place with a set screw to cover the ends of the aluminum profile and keep the door panel from sliding out the profile end
- Snap-on end caps provide a clean, finished appearance on the ends of the sliding profile where stops are not needed

Material:


- Sliding door guide profile 45x45SD: anodized aluminum
- End stop: die-cast aluminum
- End cap: black conductive polyamide 12
- Panel spacer: rigid black PVC
- Removable door insert: black polyamide 6





Assembly Note

To create a removable door, dimension H should be L - 69mm

Example:
If L = 500mm, then
H = (500 - 69) = 431mm

Description	Lot Size	Part Number
Profile 45x45SD, single, 6000mm long		3 842 500 288
Panel spacer, 3000mm long	1	3 842 146 905
Removable door insert, 3000mm long	1	3 842 146 902
End stop kit	1	3 842 191 194
End cap 	1	3 842 242 404

Machined Options	End Finish	Part Number
Profile 45x45SD, -/-, specify length $\geq 100\text{mm} \leq 6000\text{mm}$		3 842 990 115/ __mm
Profile 45x45SD, F1/F1, specify length $\geq 150\text{mm} \leq 6000\text{mm}$		3 842 990 116/ __mm

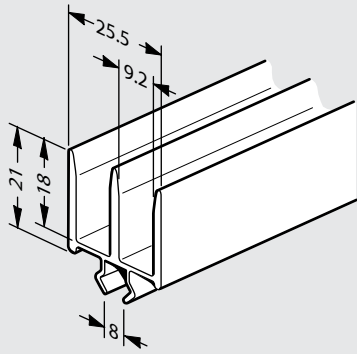
Contact your distributor for other machining options.

Section 5: Doors and Door Components

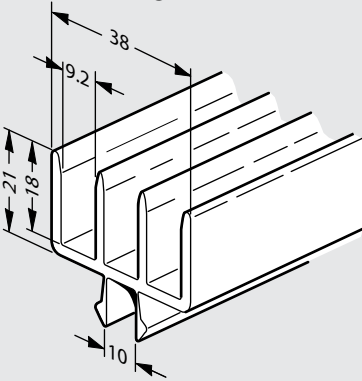
Snap-In Sliding Door Guides 

5

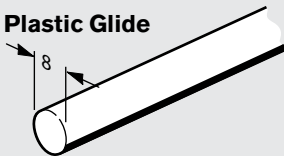
8mm Sliding Door Guide



10mm Sliding Door Guide

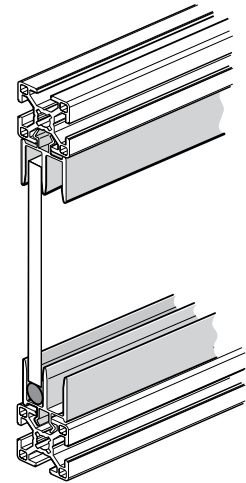


Plastic Glide



Features:

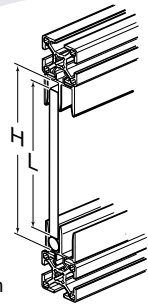
Material:



Assembly Note

To create a removable door, dimension L should be H - 25mm

Example:
If H = 300mm, then
L = (300 - 25) = 275mm



Description

Lot Size

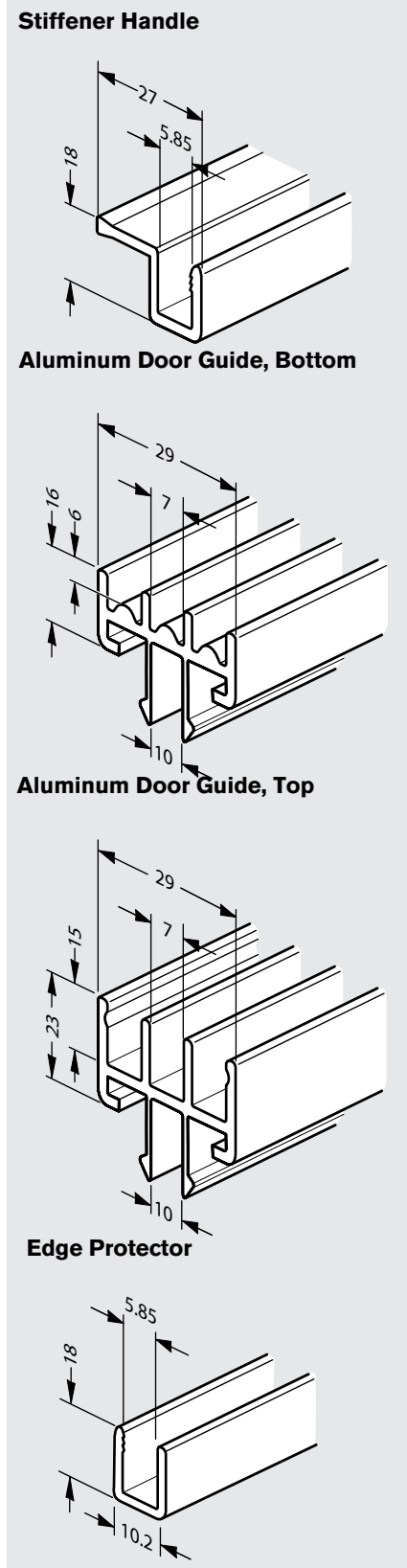
Part Number

8mm snap-in sliding door guide, 2000mm long	1	3 842 526 588
10mm snap-in sliding door guide, 2000mm long	1	3 842 526 591
Plastic glide insert, 2000mm long	1	3 842 516 694

Section 5: Doors and Door Components

Doors and Door Components

Aluminum Sliding Door Guide and Stiffener Handle 10

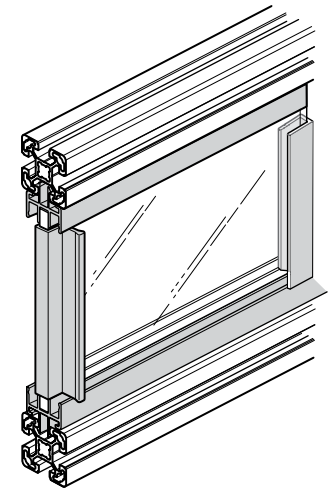


Features:

- Provides a track for light- to medium-weight sliding panels and doors
- Bottom guide has shallower slot to allow lift-out removal of panels
- Raised center ridge in bottom guide allows panels to slide more easily
- Designed for 40- and 45-series profiles with 10mm T-slots
- Snaps into position with mallet
- Stiffener handle and edge protector serves as both a convenient door handle and to reinforce door panels
- Handle presses into place on 6mm or nominal 1/4" panels

Material:

- Anodized aluminum



Description

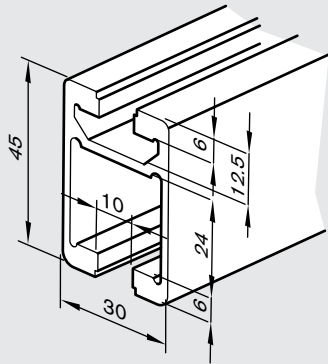
Part Number

Aluminum door guide, top, 3000mm long, one	8 981 021 837
Aluminum door guide, bottom, 3000mm long, one	8 981 021 838
Aluminum stiffener handle, 3000mm long, one	8 981 021 839
Edge Protector, 3000mm long, one	3 842 536 541
Aluminum door guide, top, 3000mm long, pkg. of 10	8 981 021 840
Aluminum door guide, bottom, 3000mm long, pkg. of 10	8 981 021 841
Aluminum stiffener handle, 3000mm long, pkg. of 10	8 981 021 842
Edge Protector, 3000mm long, pkg. of 10	3 842 536 540

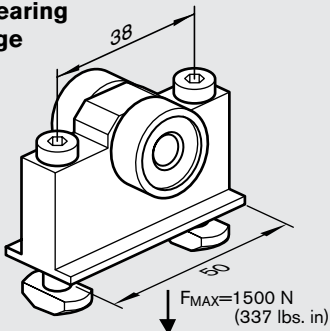
Section 5: Doors and Door Components

Roller Channel Profile C30x45 

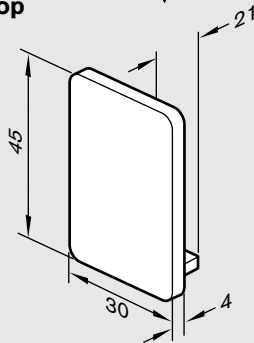
Roller Channel Profile C30x45



Ball-Bearing Carriage



End Stop

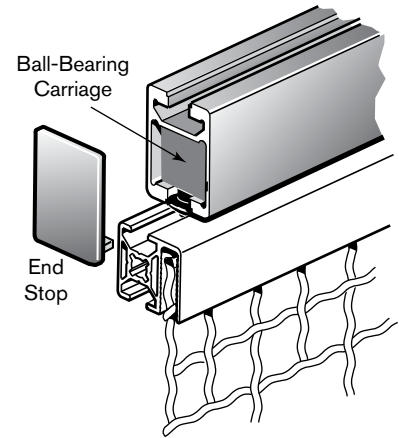


Features:

- Has open 10mm channel along one side to hold slider bearing carriages
- Used to create overhead sliding doors
- Optional end stops (listed below) attach to profile ends with screws for secure hold
- Optional ball-bearing carriages available (listed below)

Material:

- Roller channel profile: anodized aluminum
- End stop: black polyamide 6



Description	Lot Size	Part Number
Profile C30x45 roller channel, pkg. 20, 5600mm long		3 842 523 598
Profile C30x45 roller channel, single, 5600mm long		3 842 523 599
Ball-bearing carriage	1	3 842 524 153
End stop	1	3 842 521 513

Machined Options

Profile C30x45 roller channel, -/-, specify length $\geq 100\text{mm} \leq 5600\text{mm}$

End Finish



Part Number

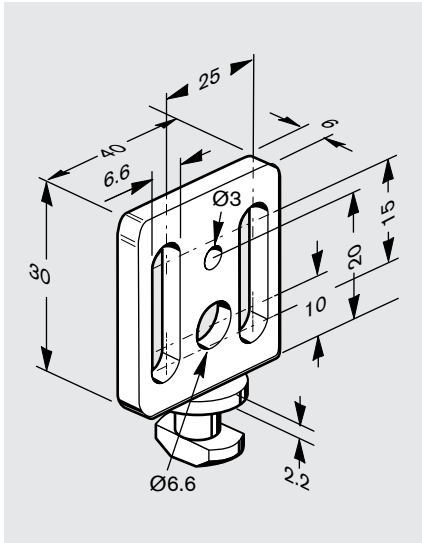
3 842 992 946/_mm

Contact your distributor for other machining options.

Section 5: Doors and Door Components

Doors and Door Components

Panel Slider

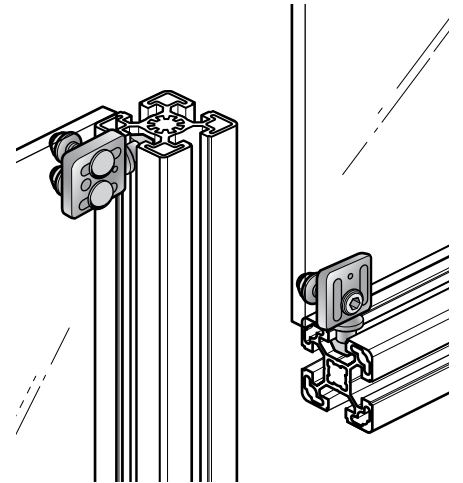


Features:

- Works in all standard profiles with 10mm T-slot
- Provides safe and smooth sliding movement for panels
- Can be used to create horizontally or vertically mounted doors and access panels
- When using to create vertical doors, use of a counterbalance is recommended (see below)

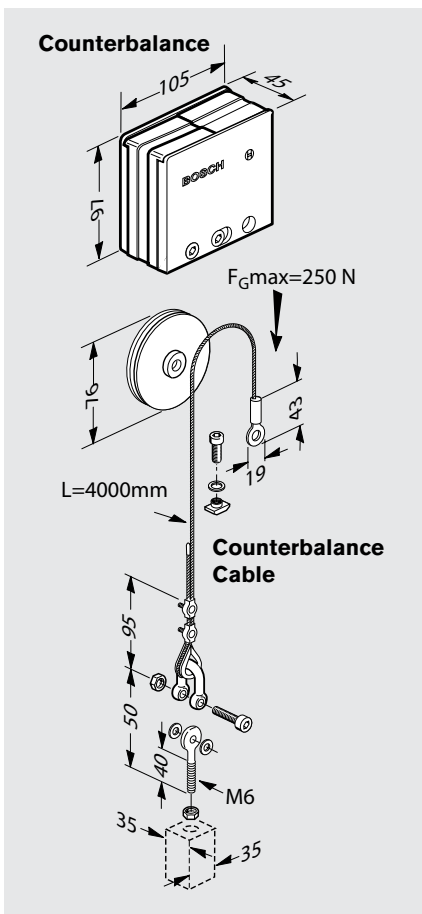
Material:

- Black POM



Description	Lot Size	Part Number
Panel slider	1	3 842 530 303

Counterbalance



Features:

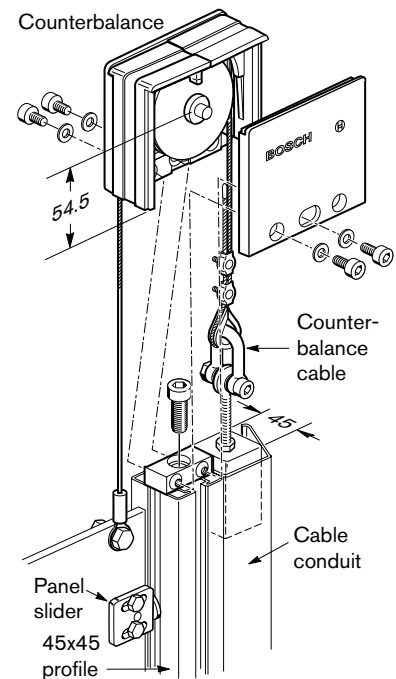
- Cable-operated counterbalance assists in raising and lowering vertical doors and panels
- Mounts on end of 45x45 profile; use 45x45 cable conduit (see Section 12: Accessories) as a guide for user-supplied counterweight
- Installation and operation instructions included with counterbalance
- Does not include cable (order separately below)
- Service life: 50,000 cycles

Machining Required:

- M12 tap in end of support profile

Material:

- Counterbalance: several, including die-cast aluminum and zinc-plated steel, etc.
- Braided stainless steel cable

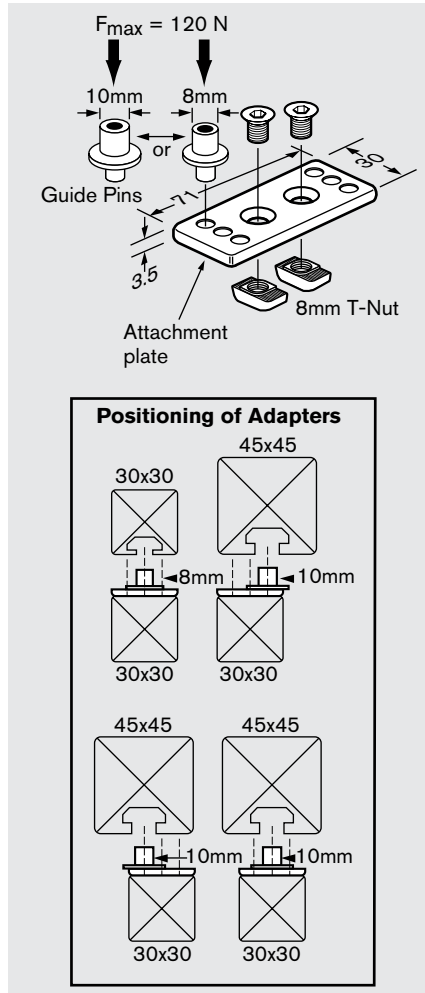


Description	Lot Size	Part Number
Counterbalance (does not include cable)	1	3 842 518 797
Counterbalance cable, 4000mm long	1	3 842 518 798

Section 5: Doors and Door Components

5

Folding Door Kit  



Positioning of Adapters

30x30 45x45

8mm 10mm

30x30 30x30

45x45 45x45

10mm 10mm

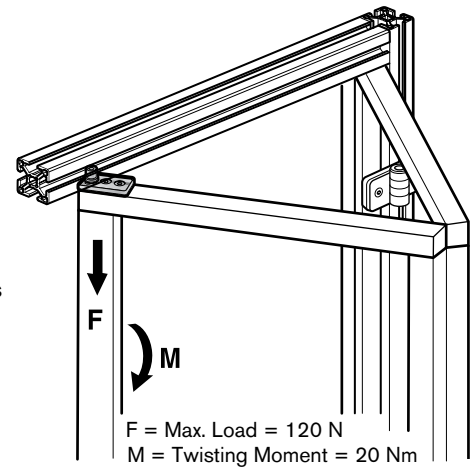
30x30 30x30

Features:

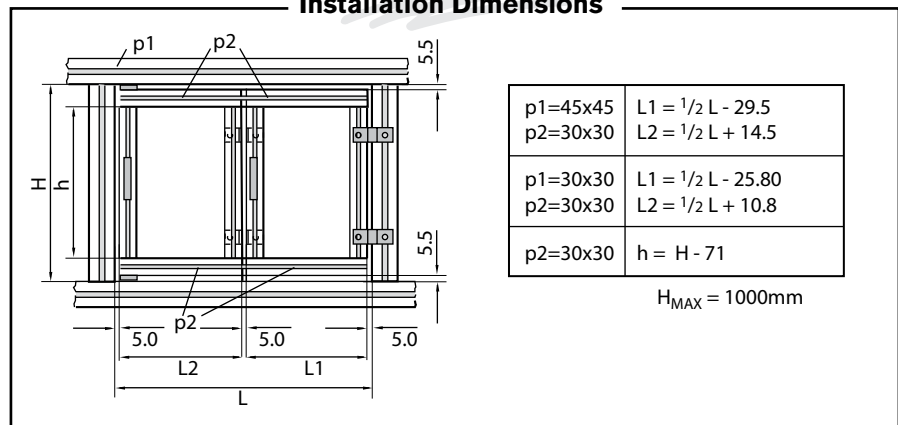
- Provides a simultaneous swinging and sliding motion, allowing the door to pivot outward as it slides along an 8mm or 10mm T-slot
- Service life: 50,000 cycles
- Includes fasteners, attachment plate, guide pins, and installation instructions
- Does NOT include hinges

Material:

- Attachment plate: die-cast zinc
- Guide pins: black polyamide 6
- Fasteners: zinc-plated steel



Installation Dimensions

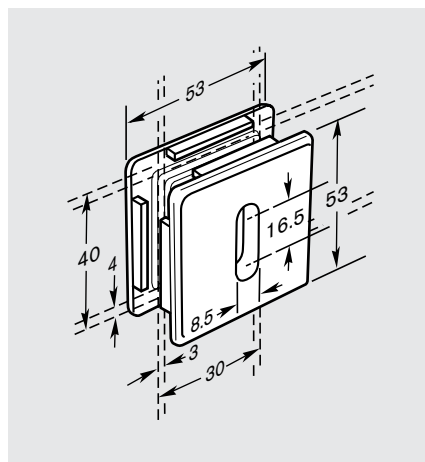


p1=45x45	L1 = 1/2 L - 29.5
p2=30x30	L2 = 1/2 L + 14.5
p1=30x30	L1 = 1/2 L - 25.80
p2=30x30	L2 = 1/2 L + 10.8
p2=30x30	h = H - 71

H_{MAX} = 1000mm

Description	Lot Size	Part Number
Folding door kit	1	3 842 516 715

Handle Mounting Plate  

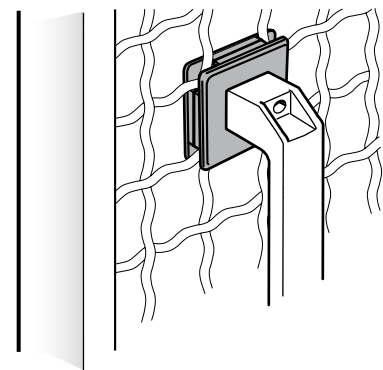


Features:

- Mount strap handles and similar components to woven wire mesh
- Tightening the handle's mounting screw and nut pressure fits the two halves of the mounting plate to the wire mesh
- For use with wire mesh having 30x30 to 40x40mm mesh openings

Material:

- Black polyamide 6

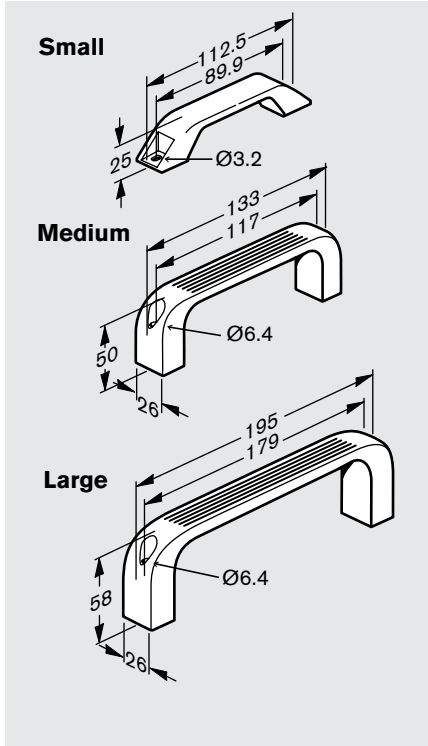


Description	Lot Size	Part Number
Handle mounting plate	1	3 842 523 308

Section 5: Doors and Door Components

Doors and Door Components

Strap Handles **GoTo**

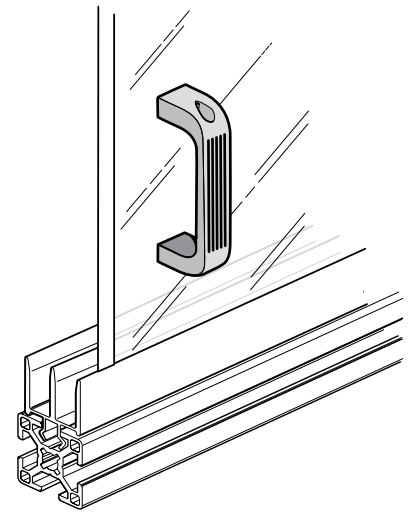


Features:












- Ideal for sliding doors and panels; also excellent for material trays, etc.
- Sturdy design and solid grip
- Small handle fits 6mm T-slots
- Medium and large handles fit both 8mm and 10mm T-slots and are available in standard or ESD formats
- Use with the handle mounting plate (below) for wire mesh applications
- Hardware not included

Material:

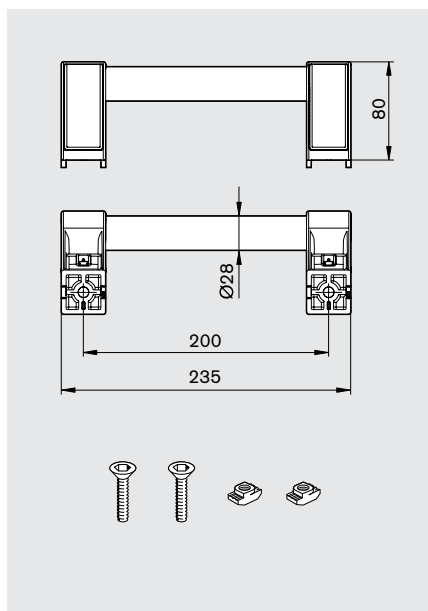
- 6mm handle: black polyethylene
- 8mm and 10mm handles: black polyamide 6



5

Description	Lot Size	Part Number
Small strap handle 	1	3 842 518 738
Medium strap handle  	1	3 842 525 480 GoTo
Medium strap handle, ESD   	1	3 842 525 481
Large strap handle  	1	3 842 525 766
Large strap handle, ESD   	1	3 842 525 767

Safety Handle

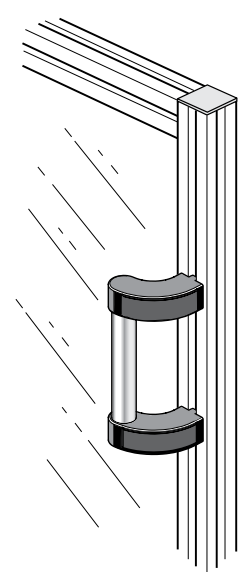


Features:

- Ergonomic
- Easy assembly without profile finishing
- Variable handle lengths (D28 round tube)
- Includes mounting hardware

Material:

- Round handle: aluminum anodized
- End pieces: PA, black

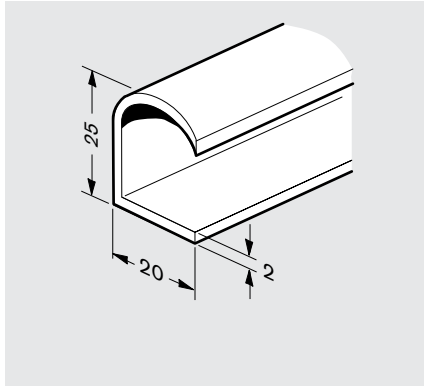


NEW!

Description	Lot Size	Part Number
Safety handle	1	3 842 536 556

Section 5: Doors and Door Components

Bar Handle 

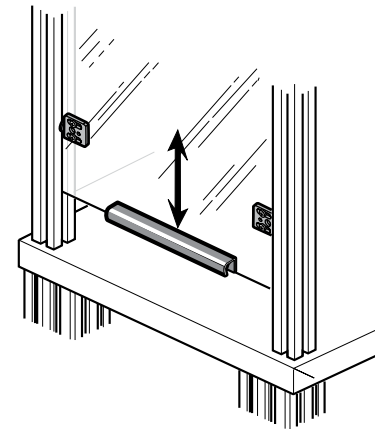


Features:

- Use with drawers and swinging and sliding doors
- Attach handle with double-sided tape, rivets, or button-head cap screws
- Comes in 3000mm lengths; can be cut to length for custom applications

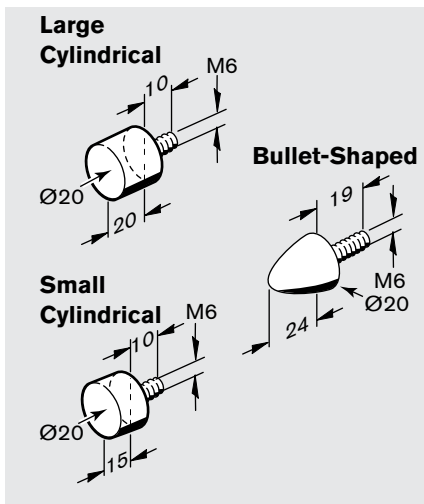
Material:

- Natural anodized aluminum



Description	Lot Size	Part Number
Bar handle, 3000mm long	1	3 842 500 287

Door Stops 

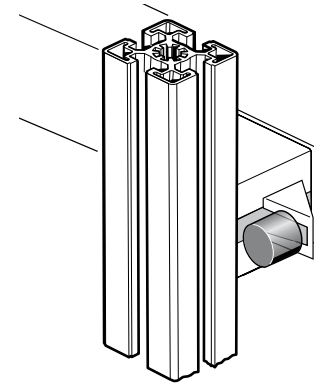


Features:

- Create a buffer for swinging or sliding doors to reduce noise and prevent damage
- Can be used with either 8mm or 10mm T-slots; order the appropriate M6 T-nut or T-block (Section 4: Fasteners)

Material:

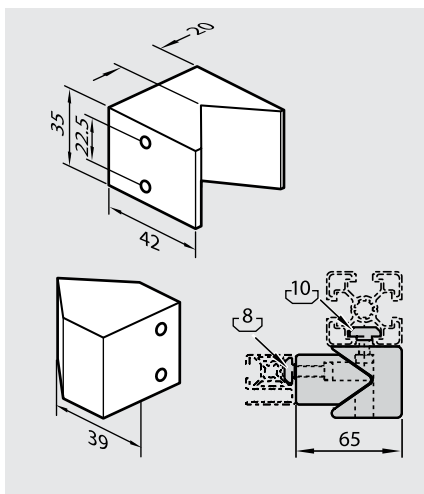
- Rubber, hardness 55, Shore A



Description	Lot Size*	Part Number
Large cylindrical stop	10	3 842 510 462
Small cylindrical stop	10	3 842 510 464
Bullet-shaped stop	10	3 842 510 165

* For smaller quantities, please contact your local distributor.

Sliding Door Stop 

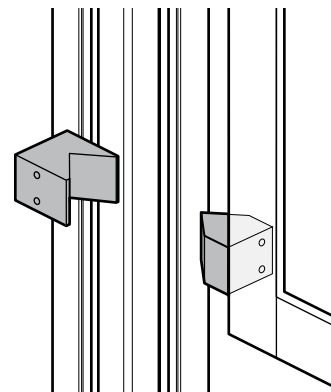


Features:

- Provide a buffer for sliding doors to reduce noise and prevent damage, and prevent doors from sliding beyond the track
- Mounting hardware included

Material:

- Rubber, hardness 55, Shore A

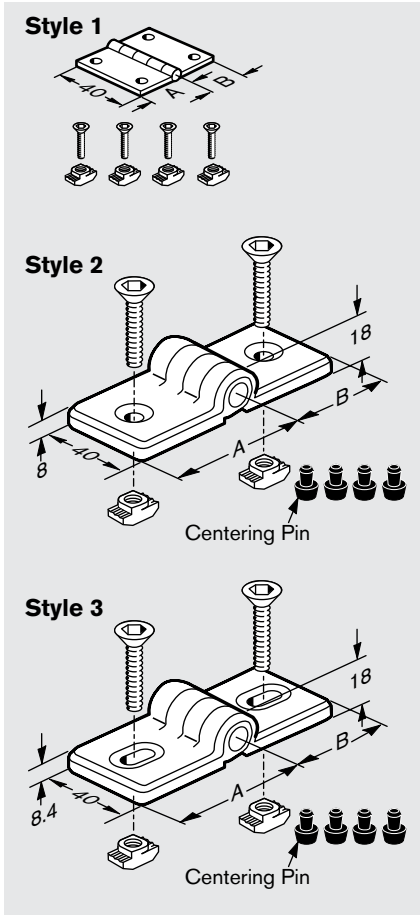


Description	Lot Size	Part Number
Sliding door stop	1	3 842 524 490

Section 5: Doors and Door Components

Doors and Door Components

Heavy-Duty Hinges

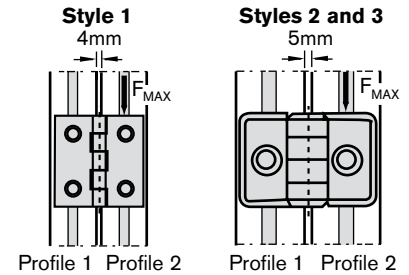
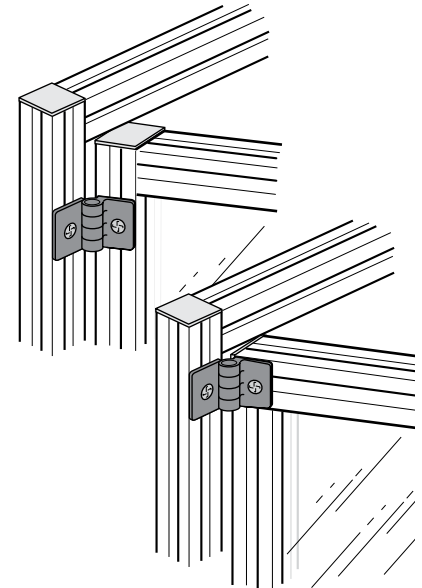


Features:

- For swinging and folding doors
- Style 1 20-series hinges are self-centering and are suitable for clean room use. $F_{MAX} = 300N$
- Style 2 and 3 hinges include centering pins and connect profiles with 8mm and 10mm T-slots, including different sized profiles, such as 30-series to 45-series. $F_{MAX} = 150 N$
- Style 2 and 3 hinges can be used in both parallel and perpendicular profile connections
- Style 3 hinges uses a slotted hole to allow use in several applications
- Installation hardware included

Material:

- Style 1: stainless-steel
- Style 2 and 3: black polyamide 6 with galvanized steel hinge pin



Profile series 1	Profile series 2	Order Hinge	Style	Dimension in mm	
				A	B
20	20	a	1	20	20
30	30	b	2	30	30
30	40	c	2	30	39
30	45	d	2	30	45
30	60	e	2	30	60
40	40	f	3	39	39
40	50	g	3	39	39
45	45	h	2	45	45
45	60	i	2	45	60
50	50	j	3	39	39
60	60	k	2	60	60

Description

Lot Size*

Part Number

Description	Lot Size*	Part Number
a Style 1 hinge, 20-series to 20-series	2	3 842 535 684
b Style 2 hinge, 30-series to 30-series	2	3 842 535 687
c Style 2 hinge, 30-series to 40-series	2	3 842 535 660
d Style 2 hinge, 30-series to 45-series	2	3 842 535 688
e Style 2 hinge, 30-series to 60-series	2	3 842 535 689
f Style 3 hinge, 40-series to 40-series	2	3 842 535 659†
g Style 3 hinge, 40-series to 50-series	2	3 842 535 659†
h Style 2 hinge, 45-series to 45-series	2	3 842 535 745
i Style 2 hinge, 45-series to 60-series	2	3 842 535 746
j Style 3 hinge, 50-series to 50-series	2	3 842 535 659†
k Style 2 hinge, 60-series to 60-series	2	3 842 535 747

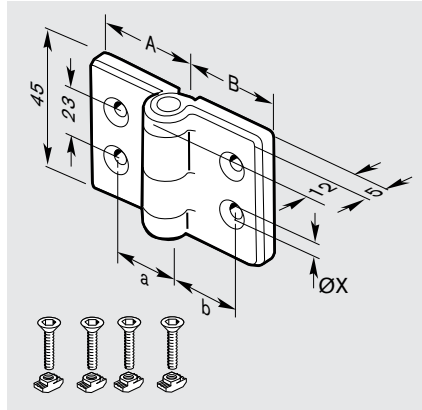
† The slotted hole in the hinge allows it to be used in multiple applications

* For smaller quantities, please contact your local distributor.

Section 5: Doors and Door Components

5

Clean Room Hinges 6 8 10

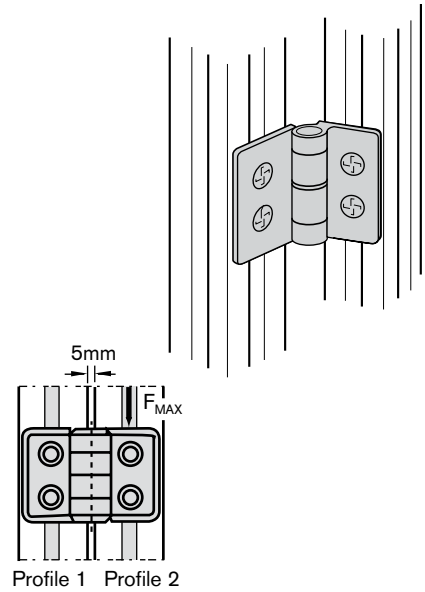


Features:

- Use to attach parallel profiles to each other or to attach panels to structural framing
- Nickel-plated aluminum with an abrasion resistant hinge pin
- $F_{MAX} = 300N$
- Suitable for clean room use
- ESD safe
- Installation hardware included

Material:

- Hinge: die-cast aluminum, nickel-plated, conductive

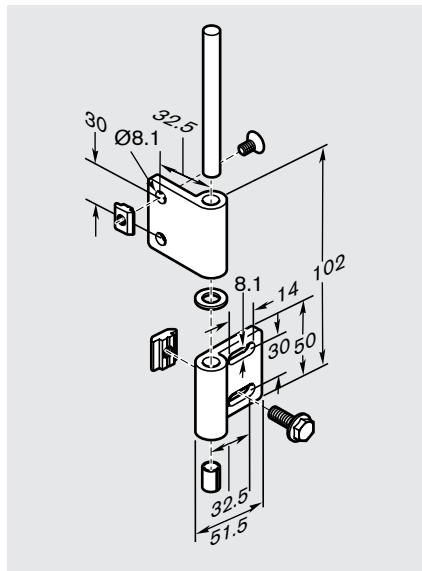


Profile series 1	Profile series 2	Order Hinge	Dimension in mm				
			ØX	A	B	a	b
20	20	a	4.5	20	20	12.5	12.5
20	30	b	6.6	20	28	12.5	17.5
30	30	c	6.6	28	28	17.5	17.5
30	40	d	6.6	28	37	17.5	22.5
30	45	e	6.6	28	40	17.5	25
40	40	f	6.6	37	37	22.5	22.5
45	45	g	6.6	40	40	25	25

Description	Lot Size*	Part Number
a Clean room hinge, 20-series to 20-series	2	3 842 535 638
b Clean room hinge, 20-series to 30-series	2	3 842 535 639
c Clean room hinge, 30-series to 30-series	2	3 842 535 640
d Clean room hinge, 30-series to 40-series	2	3 842 535 643
e Clean room hinge, 30-series to 45-series	2	3 842 535 641
f Clean room hinge, 40-series to 40-series	2	3 842 535 644
g Clean room hinge, 45-series to 45-series	2	3 842 535 642

* For smaller quantities, please contact your local distributor.

Adjustable Hinge 8 10

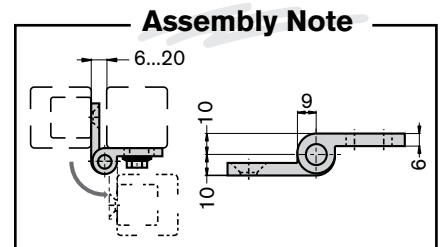
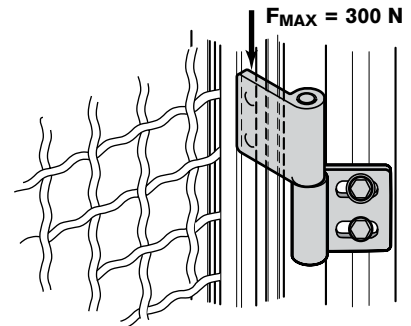


Features:

- Use to mount doors to EcoSafe, 30-series, 40-series, or 45-series profiles
- Slotted holes on adjustable side allow use with multiple profile sizes
- $F_{MAX} = 300N$
- Installation hardware includes T-blocks for solid connections

Material:

- Hinge: die-cast aluminum
- Hinge pin: galvanized steel



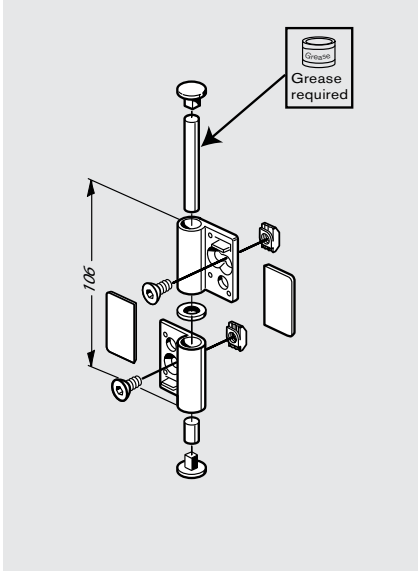
Description	Lot Size*	Part Number
Adjustable hinge	2	3 842 535 694

* For smaller quantities, please contact your local distributor.

Section 5: Doors and Door Components

Doors and Door Components

Lift-Off Hinges 8, 10

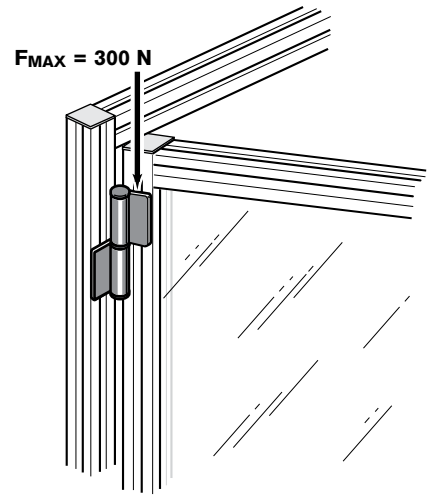


Features:

- Hang heavy doors on 30-, 45-, or 60-series profiles with 8mm or 10mm T-slots
- Alignment tabs allow some hinges to be used with multiple profile and T-slot sizes; unused tabs can be easily removed
- Can be installed for left-hand or right-hand door swing
- Surface or butt-mount installation
- $F_{MAX} = 300N$
- Installation hardware and cover caps included

Material:

- Hinge: die-cast zinc
- Hinge pin: zinc-plated steel
- Cover cap: polyamide 6

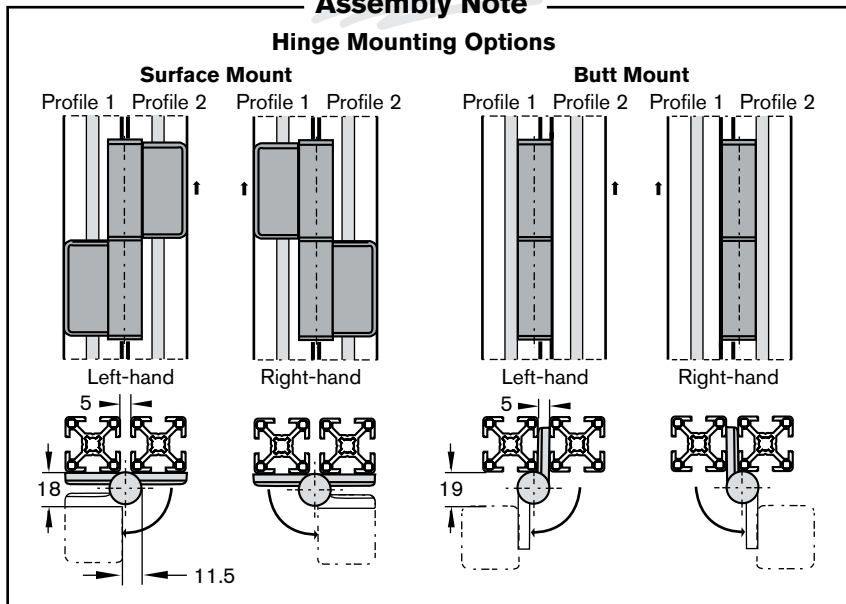


Surface Mount			Butt Mount		
Profile series	Profile series	Order Hinge	Profile series	Profile series	Order Hinge
1	to 2		1	to 2	
30	30	a	30	30	a
45, 60	30	b	45	30	b
45, 60	45, 60	c	45	45	c

Description	Lot Size*	Part Number
a Lift-off hinge	2	3 842 535 686
b Lift-off hinge	2	3 842 535 685
c Lift-off hinge	2	3 842 535 692

* For smaller quantities, please contact your local distributor.

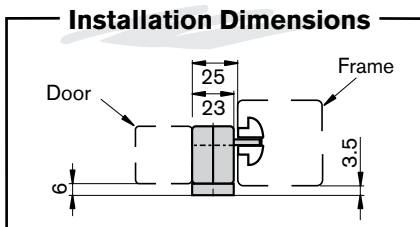
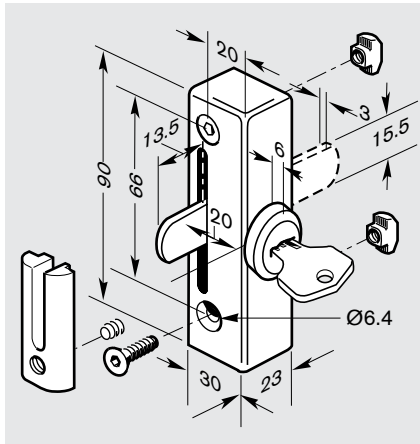
Assembly Note



Section 5: Doors and Door Components

5

Standard Lock 

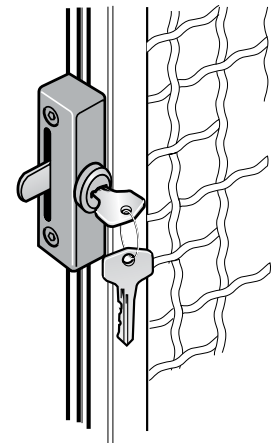


Features:

- Mounts to EcoSafe profiles
- Provides locking mechanism for doors and access panels
- Can be installed for left-hand or right-hand door swing

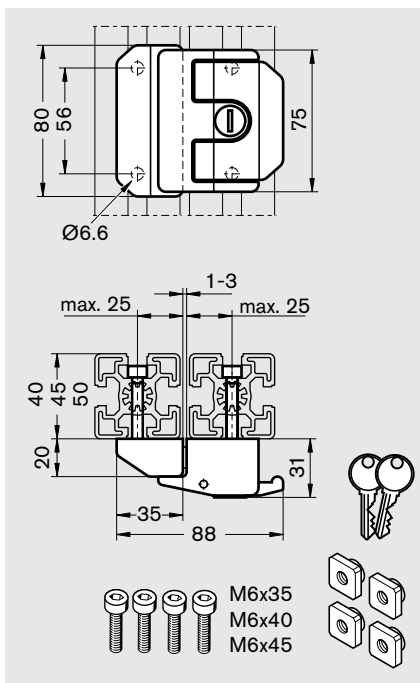
Material:

- Die-cast zinc



Description	Lot Size	Part Number
Standard lock with random selection from 150 key variations	1	3 842 522 479
Single master key, fits all 150 random key variations (for use with lock 3 842 522 479 only)	1	3 842 523 315
Standard lock with uniform key	1	3 842 523 320

Compact Lock 



Features:

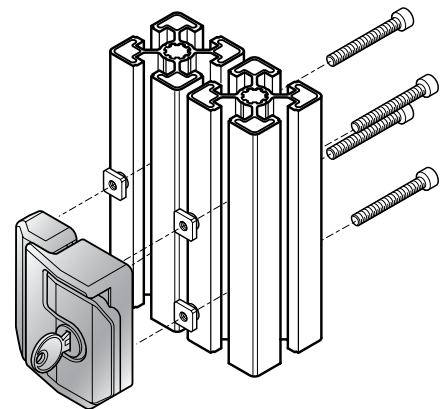
- Designed for use with 40-, 45-, and 50-series profiles
- Self-latching mechanism and ergonomic, low-profile release handle
- Available with universal or randomly selected keys
- Includes two keys and mounting hardware for 40-, 45-, and 50-series profiles

Machining required:

- Four 7mm through-holes in profile for mounting screws

Material:

- Die-cast zinc

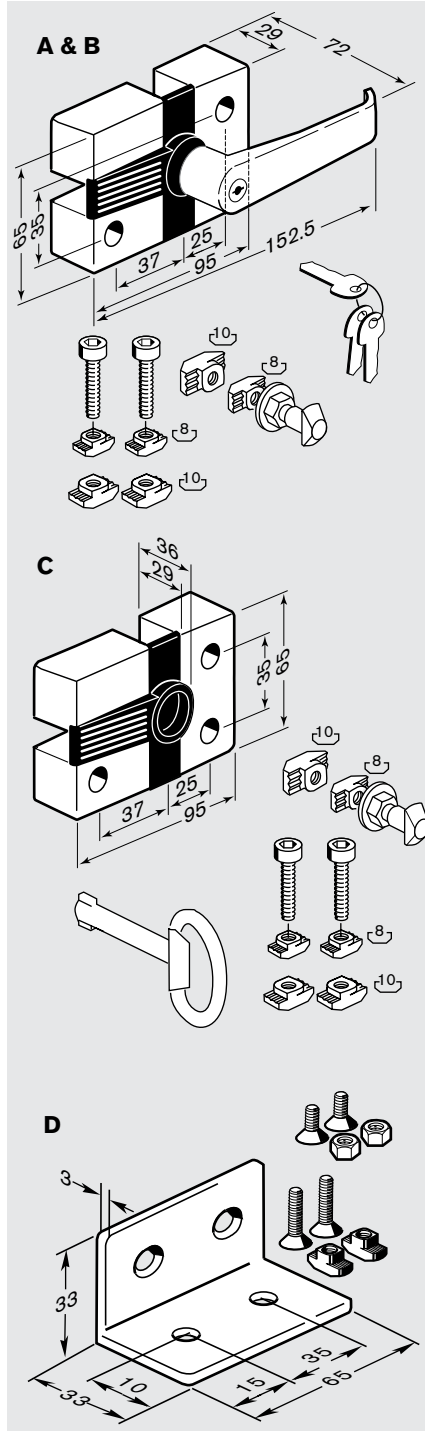


Description	Lot Size	Part Number
Compact lock with random key	1	3 842 530 353
Compact lock with universal key	1	3 842 530 352

Section 5: Doors and Door Components

Doors and Door Components

Locks for Swinging or Sliding Doors 8 10

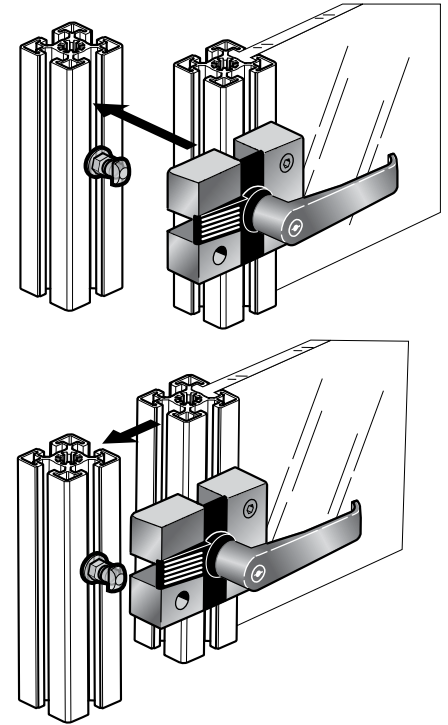


Features:

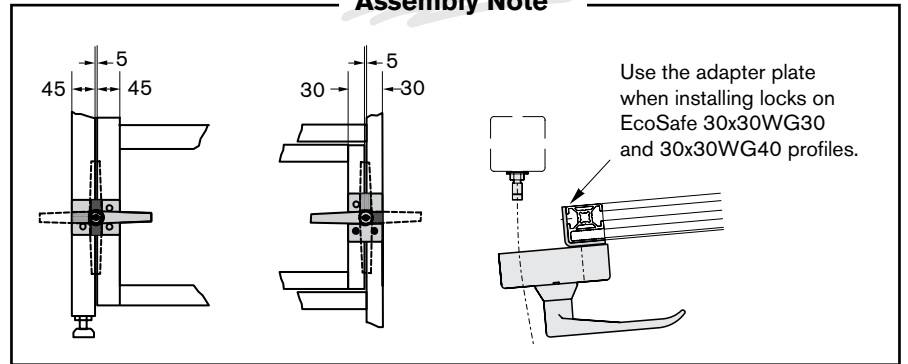
- Include hardware for use with 30-series and 45-series profiles
- Can be used on swinging or sliding doors
- Can be installed for left-hand or right-hand door swing
- On lockable handle versions, the handle can be set in any of four positions
- Lockable handle versions available with universal or random key
- On the version without a handle, the key serves as a removable handle
- An optional adapter plate is available to allow use with EcoSafe 30x30WG30/WG40 profiles

Material:

- Handle: black polyamide
- Bolt: zinc-plated steel
- Housing: Die-cast aluminum
- Adapter plate: galvanized steel



Assembly Note

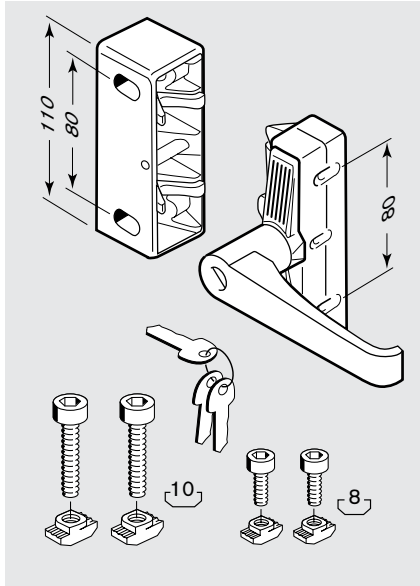


Description	Lot Size	Part Number
A Lockable handle, 30-30/45-45, random key	1	3 842 525 821
B Lockable handle, 30-30/45-45, uniform key	1	3 842 525 822
C Lock, 30-30/45-45, uniform key	1	3 842 525 823
D Adapter plate	1	3 842 523 243

Section 5: Doors and Door Components

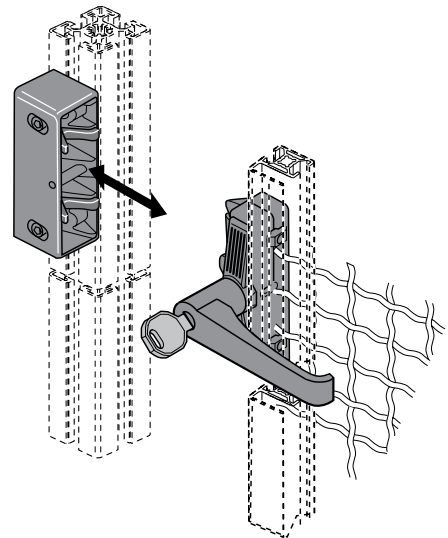
5

Locks for Sliding Doors  



Features:

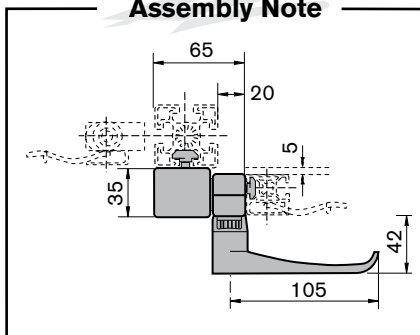
- Include hardware for use with 30-series and 45-series profiles
- Can be used on swinging or sliding doors
- Can be installed for left-hand or right-hand door swing
- On lockable handle versions, the handle can be set in any of four positions
- Lockable handle versions available with universal or random key
- On the version without a handle, the key serves as a removable handle



Material:

- Handle: black polyamide
- Bolt: zinc-plated steel
- Housing: die-cast aluminum

Assembly Note



Description

Lock for sliding doors, random key
 Lock for sliding doors, uniform key

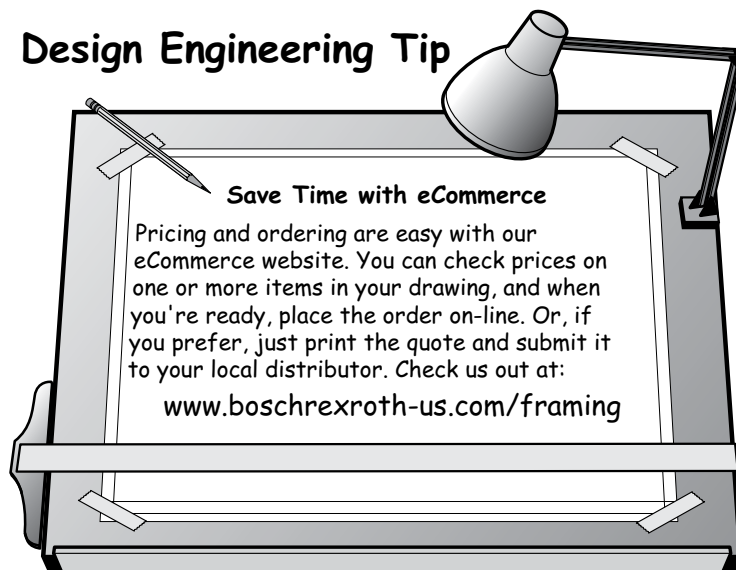
Lot Size

1
 1

Part Number

3 842 525 946
3 842 525 947

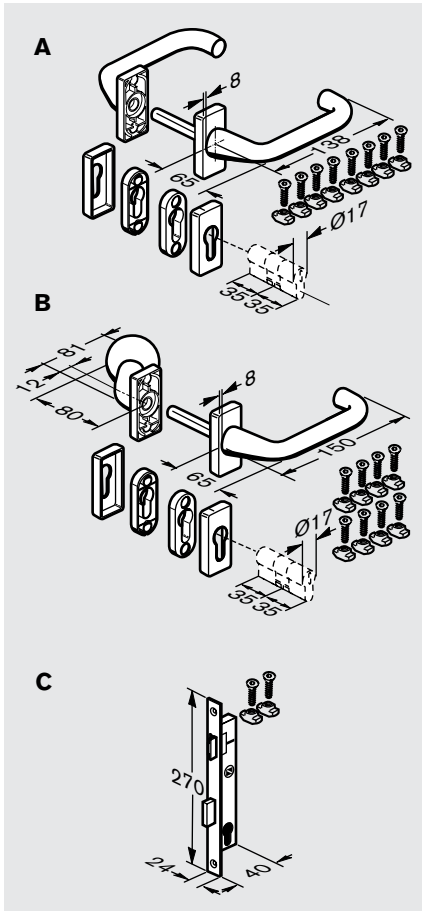
Design Engineering Tip



Section 5: Doors and Door Components

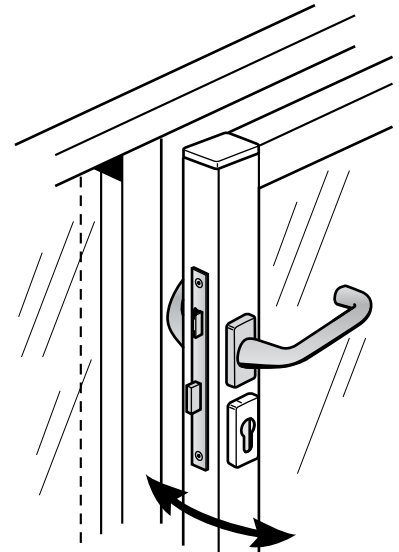
Doors and Door Components

Locks for Heavy Swinging Doors 10



Features:

- Designed for use with doors where the frame is made from 45x45H or 45x45 2S profile and door jamb is made from 45x45H or 45x45 1S profile
- Two styles of handles are available: (A) bar handles on both sides, or (B) bar handle on one side, ball handle on the other
- Can be installed for left-hand or right-hand door swing
- Mounting hardware, lock housing, and covers included
- Latch mechanism (C) must be ordered separately
- Some machining of frame and jamb profiles is necessary



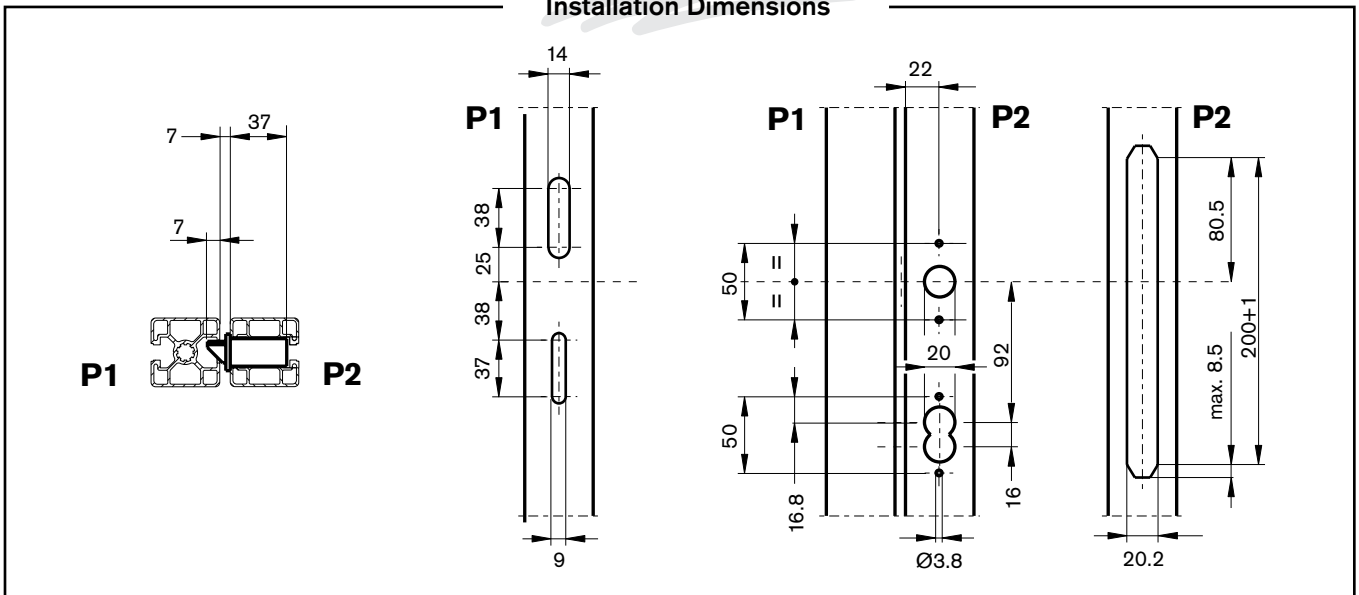
Material:

- Key cover, latch mechanism, and handle: die-cast zinc
- Hardware: zinc-plated steel

Description	Lot Size	Part Number
A Bar handle on both sides, one package	1	3 842 542 683
B Bar handle on one side, ball handle on the other side, one package	1	3 842 542 684
C Latch mechanism	1	3 842 538 241






Mortise lock with key available from ILCO, ILCO part 52225. Thumb knob also available. Call ILCO at 800-334-1381.

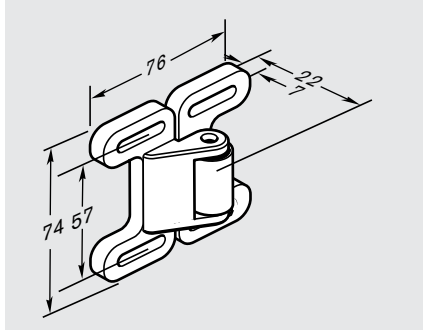
Installation Dimensions



Section 5: Doors and Door Components

5

Ball Detent Latch     

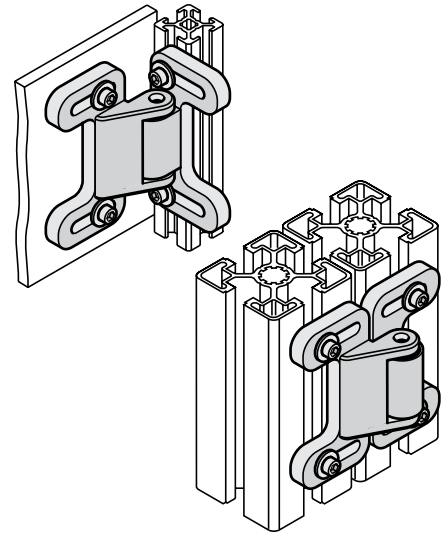









Features:

- Provides a positive stop for sliding and swinging doors with profile frames
- Can be used with profiles having 6mm, 8mm, or 10mm T-slots
- Can be mounted directly to a panel or door for frameless doors or flaps
- ESD safe
- Does NOT include mounting hardware
- Pull force - 15N + 5

Material:

- Black polyamide 6, conductive



Hardware Required to Connect	 DIN 912	 DIN 9021	 T-Nut
	M4x12 (4x)	B4.3 (4x)	6mm (4x)
	M4x12 (2x)	B4.3 (2x)	6mm (2x)
	M4x14 (2x)	B4.3 (2x)	8mm (2x)
	M4x14 (4x)	B4.3 (4x)	8mm (4x)
	M4x14 (2x)	B4.3 (2x)	8mm (2x)
	M5x20 (2x)	B5.3 (2x)	10mm (2x)
	M5x20 (4x)	B5.3 (4x)	10mm (4x)

Description

Ball detent latch

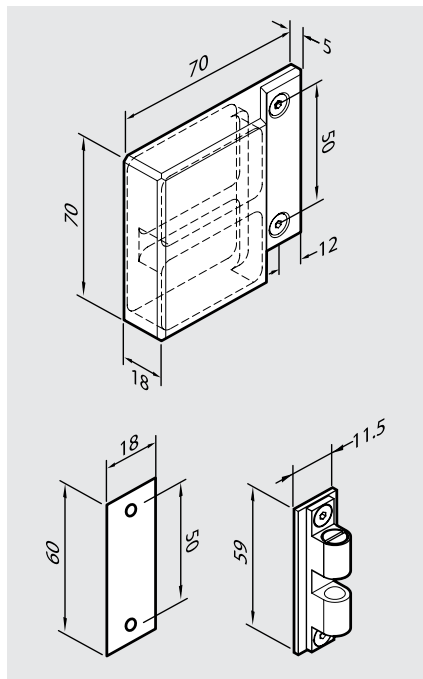
Lot Size

1

Part Number

3 842 524 986

Universal Ball Detent Latch  

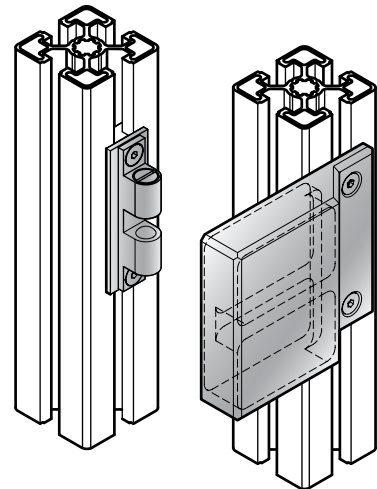


Features:

- Provides a positive stop for swinging doors with profile frames
- Can be used with any standard 10mm T-slotted profile except 60-series
- Can be mounted directly to a panel or door for frameless doors or flaps
- ESD safe
- Includes mounting hardware for 10mm T-slots

Material:

- Black anodized aluminum



Description

Universal ball detent latch

Lot Size

1

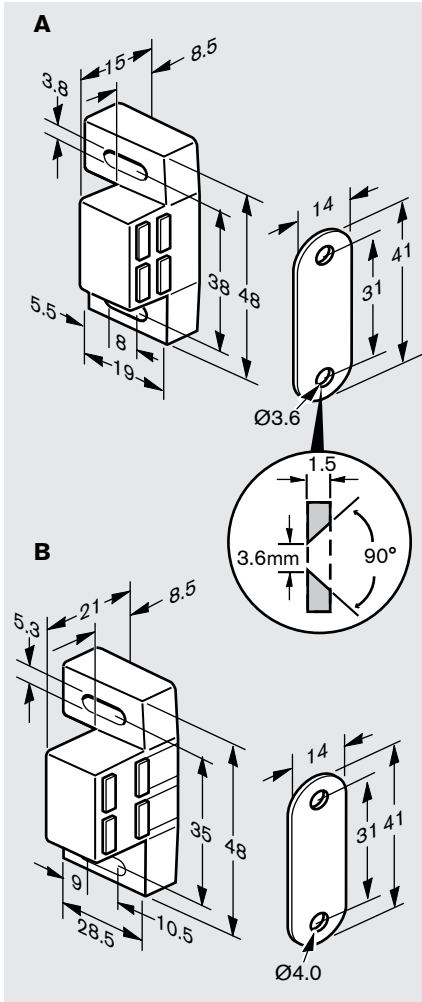
Part Number

3 842 530 241

Section 5: Doors and Door Components

Doors and Door Components

Magnetic Latches

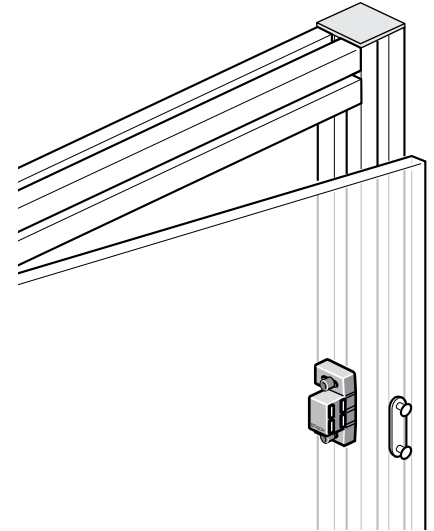





Features:

- Designed to hold swinging panels and doors closed
- Striker plate can be attached to panels or frames
- 20N (4.5 lbs.) holding force latch is for use with 6mm T-slotted profiles
- 40N (9.0 lbs.) holding force latch is for use with 8mm and 10mm T-slotted profiles
- Striker plate included
- Mounting hardware not included

Material:

- 20N magnetic latch: white polypropylene and zinc-plated steel
- 40N magnetic latch: black polyamide 6 and zinc-plated steel

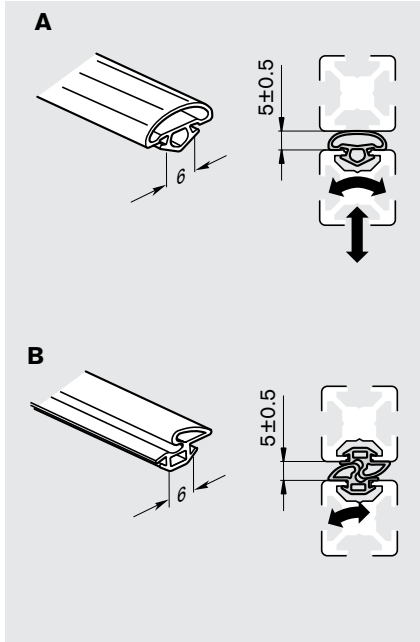


Description	Lot Size	Part Number
A 20N magnetic latch 	1	3 842 518 740
B 40N magnetic latch  	1	3 842 516 165

Section 5: Doors and Door Components

5

6mm Door Seals 

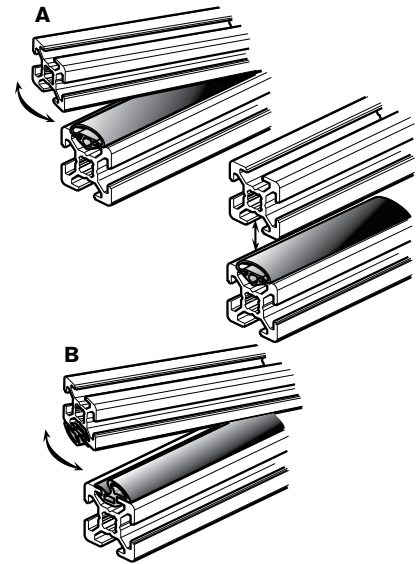




Features:

- Fit into any profile with a 6mm T-slot
- Prevent unwanted materials and particulate from entering or escaping
- Style A can be used for swinging or sliding doors
- Style B is designed for use on swinging doors to create a positive door stop
- Resistant to acid, caustic solutions, alcohol, mineral oil, and benzene
- Length: 10,000mm

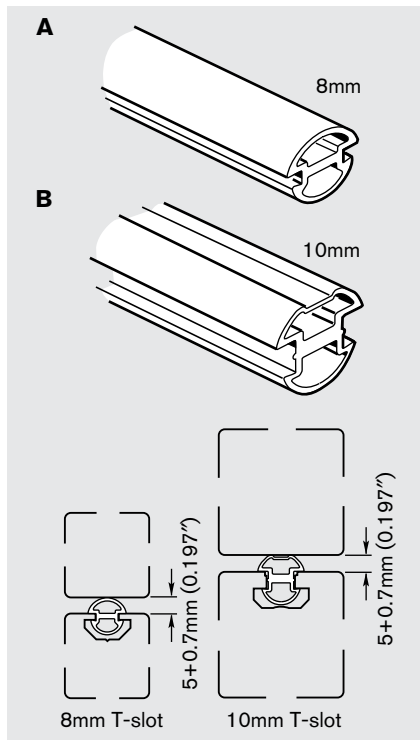
Material:

- Light gray thermoplastic elastomer



Description	Lot Size	Part Number
A Style A 6mm door seal, 10,000mm long 	1	3 842 524 623
B Style B 6mm door seal, 10,000mm long 	1	3 842 524 622

8mm and 10mm Door Seals  

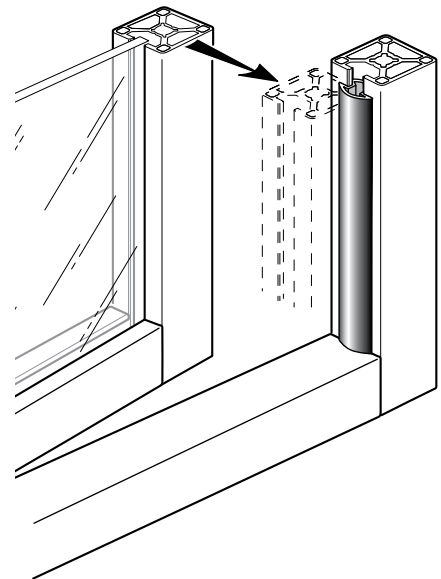




Features:

- Prevent unwanted materials and particulate from entering or escaping
- Resistant to mineral oil and organic solvents
- Available for 8mm or 10mm T-slotted profiles
- Length: 10,000mm

Material:

- Black NBR (soft rubber), hardness 60, Shore A



Description	Lot Size	Part Number
A 8mm door seal, 10,000mm long 	1	3 842 516 598
B 10mm door seal, 10,000mm long 	1	3 842 518 492

Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

Overview

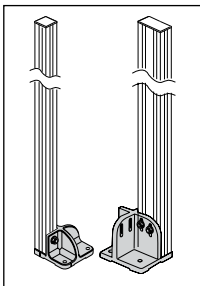
Bosch Rexroth offers a wide range of machine and perimeter guarding options for creating physical enclosures, guards, and barriers to protect workers. EcoSafe panels assemble easily from standard components and installation is a snap. Partitions can be constructed of

wire mesh screens, protective panes or panels, then mounted directly into the T-slot of profiles, or attached to profiles that have already been integrated into a system.

EcoSafe Guarding Components

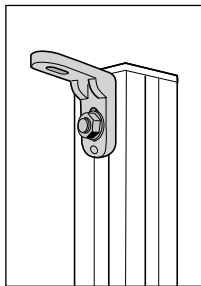
Follow the easy steps below to order the necessary components for your EcoSafe enclosure. A sample EcoSafe structure and additional information about the EcoSafe system is listed on pages 6-2 and 6-3.

Step 1



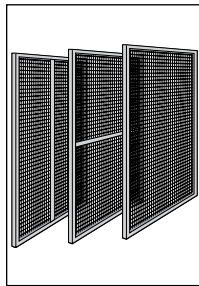
Support Posts
6-4

Step 2



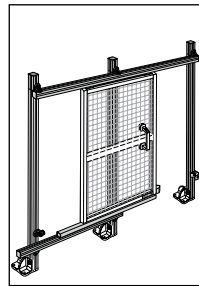
Panel Mounting
Bracket Kits
6-5

Step 3



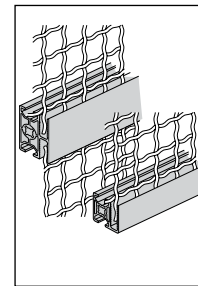
Protective Frames
6-6 & 6-7

Step 4



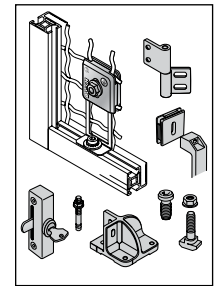
EcoSafe Door
Components
6-8 to 6-10

Step 5



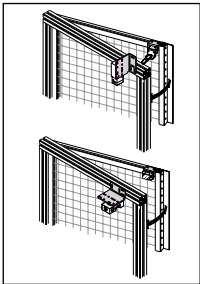
EcoSafe Frame
Profiles
6-11 & 6-12

Step 6

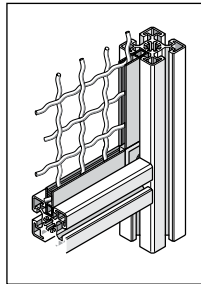


Wire Mesh
Grounding Terminal
& Installation Acces-
sories
6-13 - 6-15

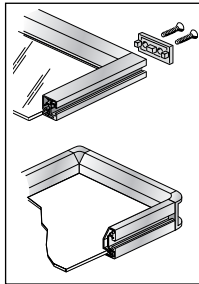
Other Guarding Components



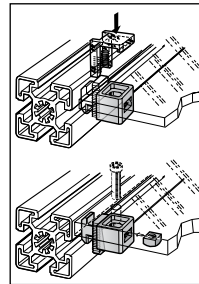
Safety Switch
Mounting Bracket
Kits
6-16



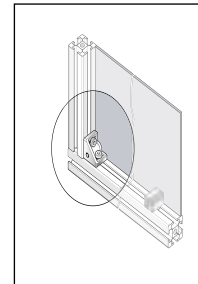
Wire Mesh Frame
Profile and Corner
Connectors
6-17



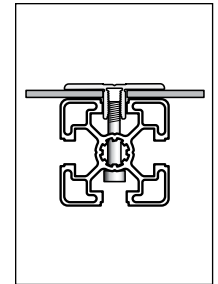
Frame Profiles
22.5x30F &
22.5x45F
6-18 & 6-19



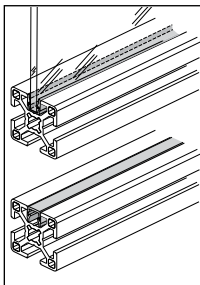
Variofix Panel
Mounting
Fasteners
6-20



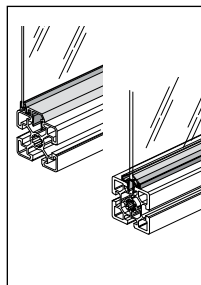
Panel Mount Gus-
sets
6-21 & 6-22



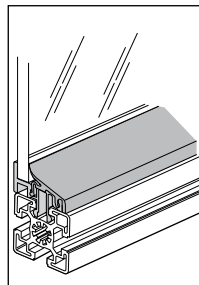
Heavy Duty Clamp
Profiles
6-23



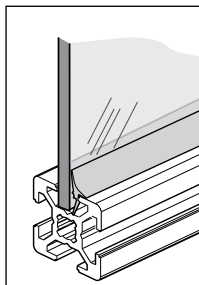
Panel Support
Inserts
6-24



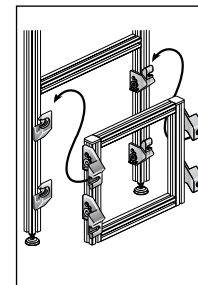
Removable Panel
Support Inserts
6-25



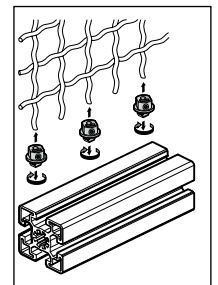
Flush-Mount
Removable Panel
Support Inserts
6-26



Glazing Strip
6-27



Removable Frame
Brackets
6-28



Clamp Bushing
6-29

Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

EcoSafe Guarding

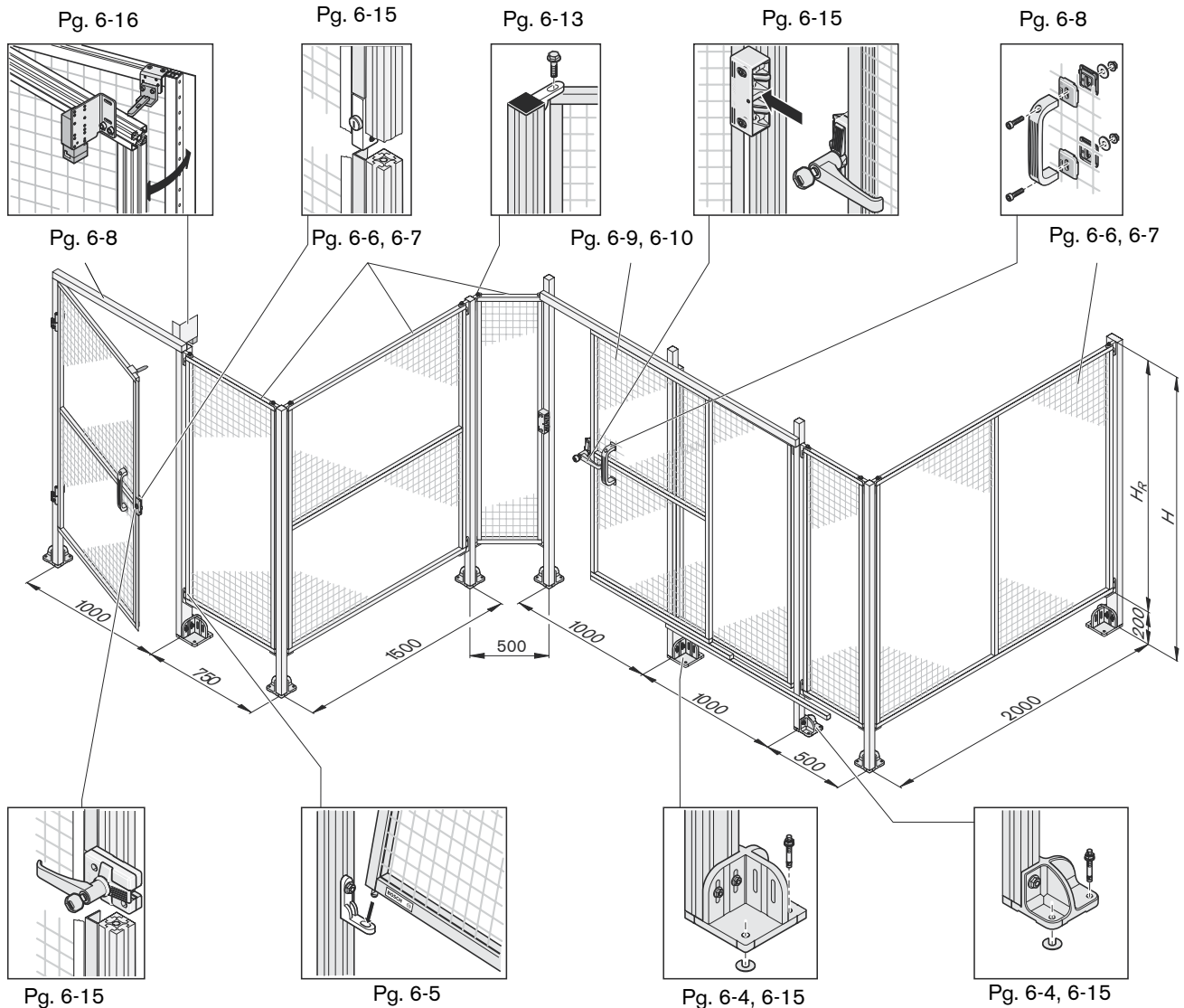
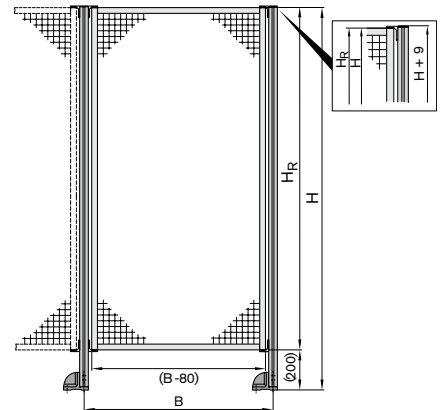
Width

In order to simplify planning and assembly, system width **B** is always given as the distance from the middle of one support to the middle of the next support. EcoSafe protective frames can be made to order in widths from 250mm up to 2500mm.

Height

In all height information, the system height **H** and the frame height **H_R** are different. Frame height **H_R** can be specified from 250mm to 2000mm maximum. In order to guarantee easy access for cleaning machines, a distance to the ground of 200mm is required.

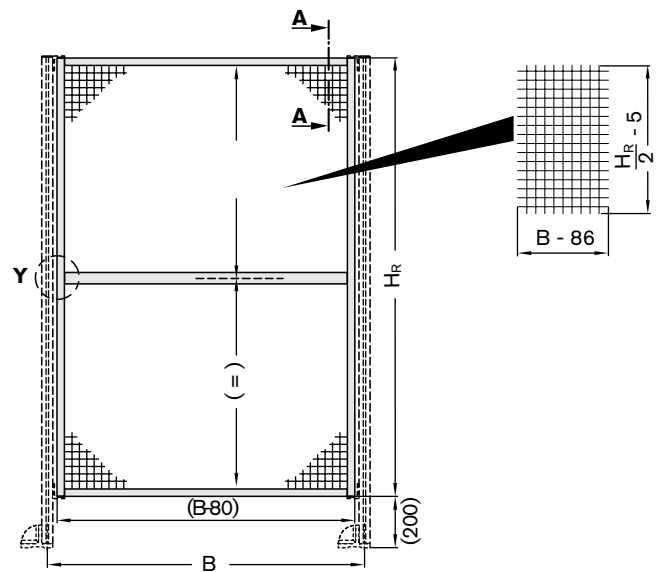
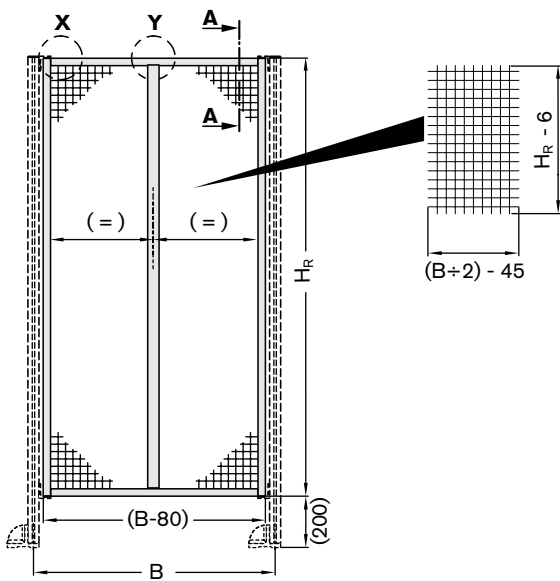
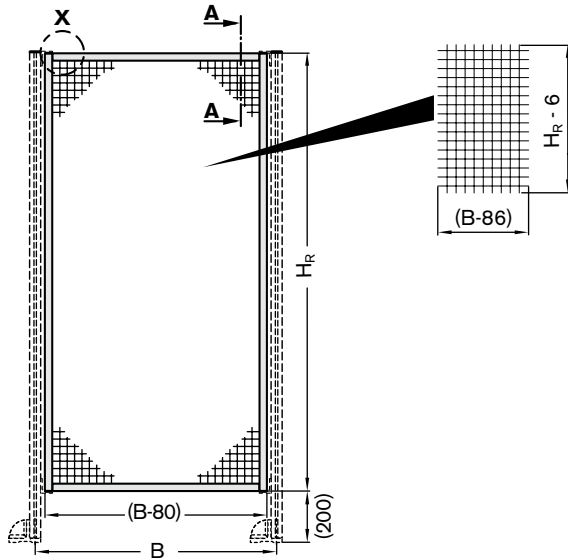
The distance to the ground can be adjusted if required. Also when planning your guarding, consider that protective guards in the 1800mm height can be converted into doors.



Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

Assembling EcoSafe Guarding

EcoSafe frame profiles are an economical solution for the construction of protective guards with woven wire grilles or panels. The grille is held securely in the special groove so that it cannot rattle, and a special mounting rim is not required. Panels are installed with spring clamps to prevent rattling. The profiles are connected together with self-tapping S8x25 screws.



Assembly Note

Drilling Tips

X

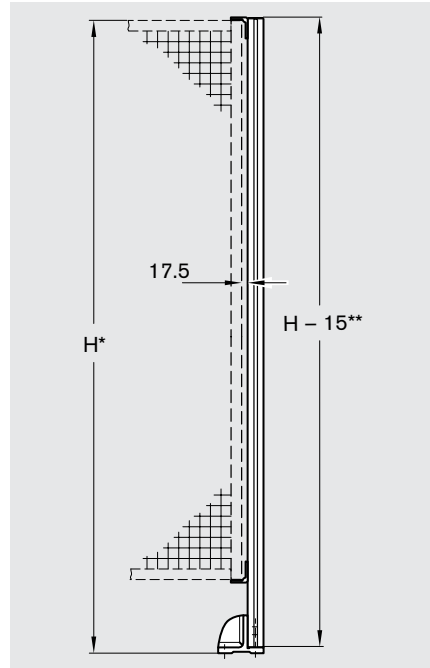
A - A

Y

Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

Support Post Assemblies

Support Posts ¹⁰



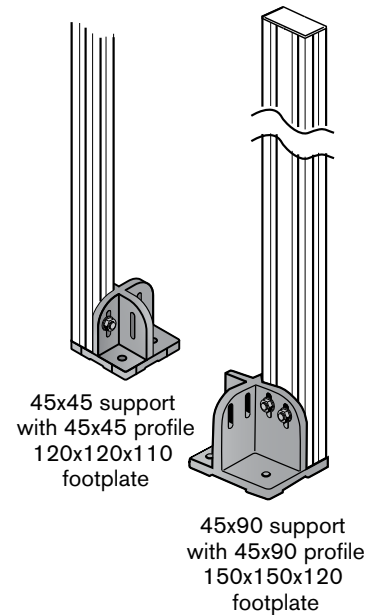
Technical Data

Technical drawing of a support post showing a force F applied to the side and a diameter D. The height of the post is 1000 mm.

F [N]	100	150	300	450	600
D [mm]	4	6	13	21	31

Features:

- Used for perimeter type guards
- Two styles available: 45x45 for standard applications, and 45x90 for heavy-duty applications
- Can be used to support EcoSafe panels or panels made using standard 30- and 45-series profiles
- Includes footplate and end cap



Description	Qty. Req'd	Part Number
45x45 Support Post (includes the following)		
45x45 profile, square cut to length	1	8 981 992 026/ __mm**
45x45 end cap	1	3 842 502 674
Footplate 120x120x110	1	3 842 527 553
24mm T-bolt kit	2	8 981 021 344
S12x30 connection screw	1	8 981 021 302
45x90 Support Post (includes the following)		
45x90 profile, square cut to length	1	3 842 992 432/ __mm**
45x90 end cap	1	3 842 511 783
Footplate 150x150x120	1	3 842 524 469
24mm T-bolt kit	2	8 981 021 344
S12x30 connection screw	1	8 981 021 302

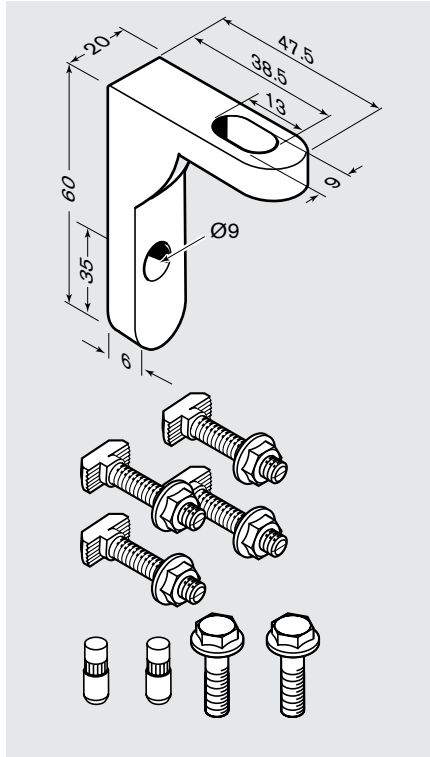
* specify height (H) ≥450mm≤2300mm
 ** specify height (H-15) ≥450mm≤2300mm

Assembly Note

Use the lateral alignment marks on the footplate to achieve precise spacing for EcoSafe support posts.

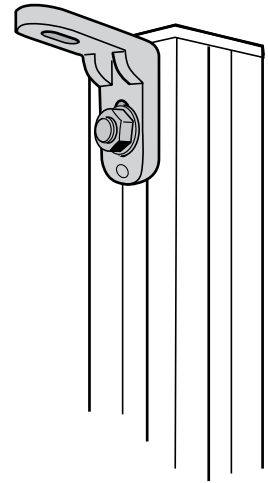
Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

Panel Mounting Bracket Kit 



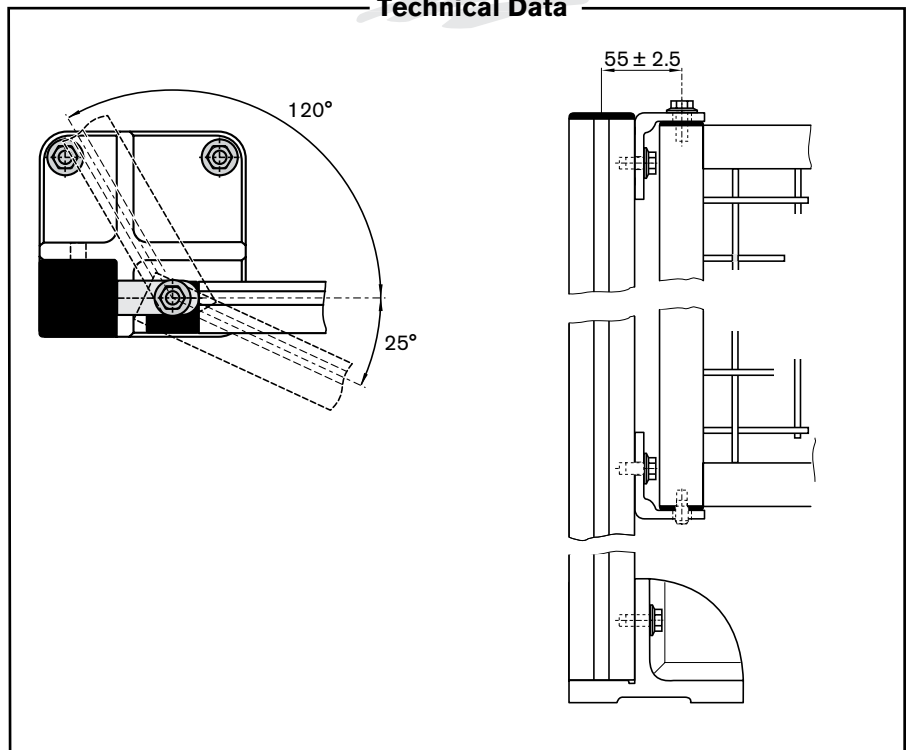
Features:

- Used to mount EcoSafe panels to pre-assembled vertical supports
- Pins hold the bottom corners of the panel and screws secure it at the top
- Panels can be mounted in a 145° range to the vertical support, allowing guarding to easily follow the work area
- Includes four brackets, two pins, two panel mounting screws, and four T-bolt kits



Description	Lot Size	Part Number
Panel mounting bracket kit	1	3 842 522 481

Technical Data

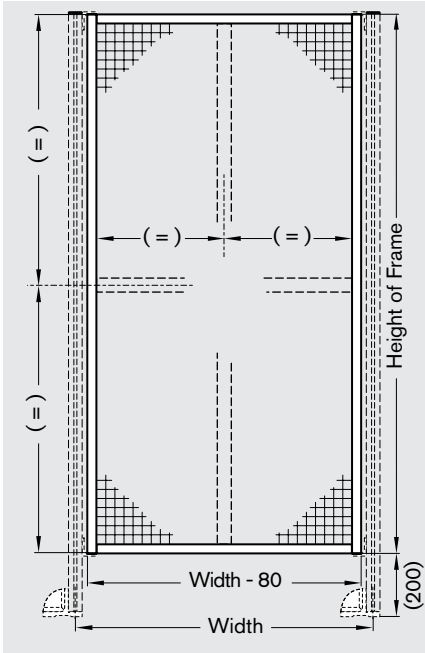


Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

EcoSafe Guarding Components

Protective Frames ⁸

6



Features:

- 30x30 WG aluminum frames can hold solid panels or wire mesh
- Attach frames to support posts using panel mounting brackets
- Allow fast assembly of perimeter guarding
- Three styles are available: Undivided, Vertically Divided, and Horizontally Divided. For ordering and component details, see the next page

Note:

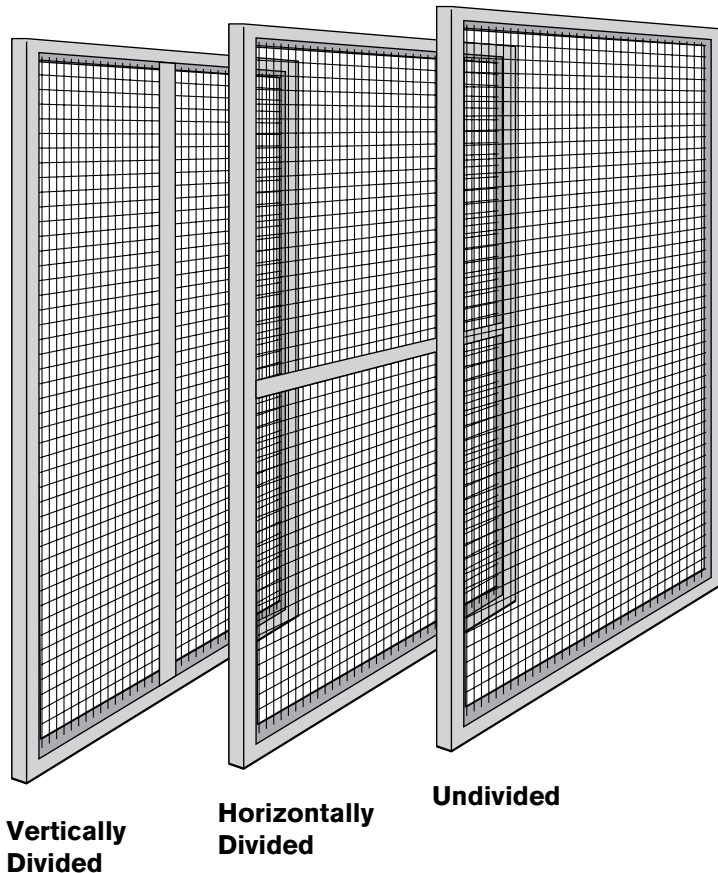
- EcoSafe panels are designed and built by your local Bosch Rexroth distributor. Call 1-800-REXROTH for the location of your nearest authorized Bosch Rexroth framing distributor.

Technical Data

for Frames with Galvanized Steel Mesh

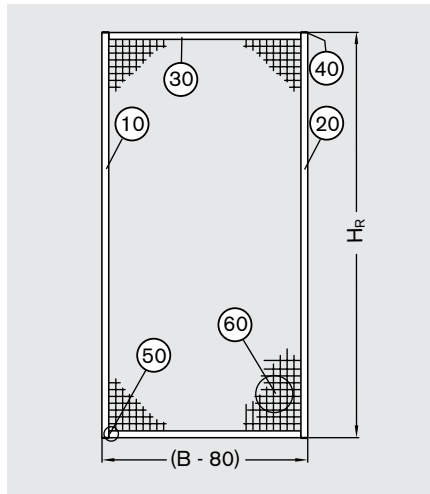
Force needed to push woven 12AWG triple crimp wire out of frame profile as tested statically in the center of panel with a 200mm dia. steel plate.

H [mm]	1800	1800	1800
W [mm]	750	1000	1500
F_{max} [N]	1100	730	550



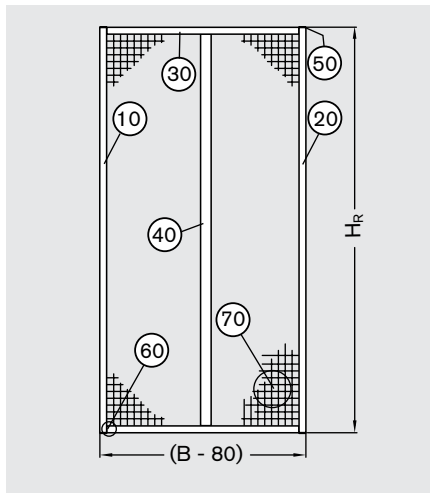
Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

Undivided EcoSafe Panel



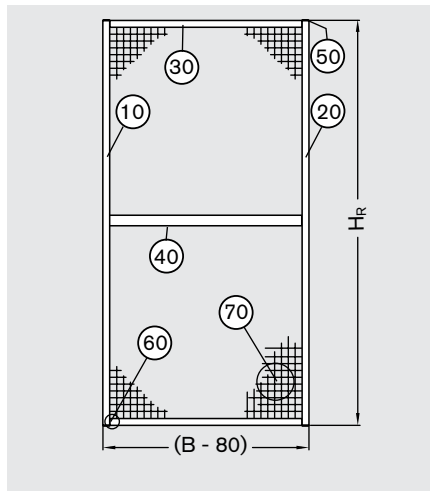
Description	Qty. Req'd.	Part Number
10 30x30 WG40 left-hand: drilled both ends 7.8mm, one end tapped M8, 40mm deep L=H _R , specify length ≥250mm≤2000mm	1	3 842 992 978/ __mm
20 30x30 WG40 right-hand: drilled both ends 7.8mm, one end tapped M8, 40mm deep L=H _R , specify length ≥250mm≤2000mm	1	8 981 992 247/ __mm
30 30x30 WG40: square cut to length L=(B-80)-60, specify length ≥210mm≤2440mm	2	3 842 992 972/ __mm
40 End cap 30x30 WG30/40	4	3 842 522 345
50 S8x25 self-tapping screw	4	3 842 523 970
60 Panel, specify type, L x W = (B-92) x (H _R -12) (4-5mm thick)	1	Contact your distributor

Vertically Divided EcoSafe Panel



Description	Qty. Req'd.	Part Number
10 30x30 WG40 left-hand: drilled both ends 7.8mm, one end tapped M8, 40mm deep L=H _R , specify length ≥250mm≤2000mm	1	3 842 992 978/ __mm
20 30x30 WG40 right-hand: drilled both ends 7.8mm, one end tapped M8, 40mm deep L=H _R , specify length ≥250mm≤2000mm	1	8 981 992 247/ __mm
30 30x30 WG40: drilled in center 7.8mm, L=(B-80)-60, specify length ≥210mm≤2440mm	2	3 842 992 984/ __mm
40 30x45 WG40, square cut to length, L=H _R -60, specify length ≥210mm≤1940mm	1	3 842 992 973/ __mm
50 End cap 30x30 WG30/40	4	3 842 522 345
60 S8x25 self-tapping screw	4	3 842 523 970
70 Panel, specify type, L x W = (B/2) -51 x (H _R -12) (4-5mm thick)	2	Contact your distributor

Horizontally Divided EcoSafe Panel

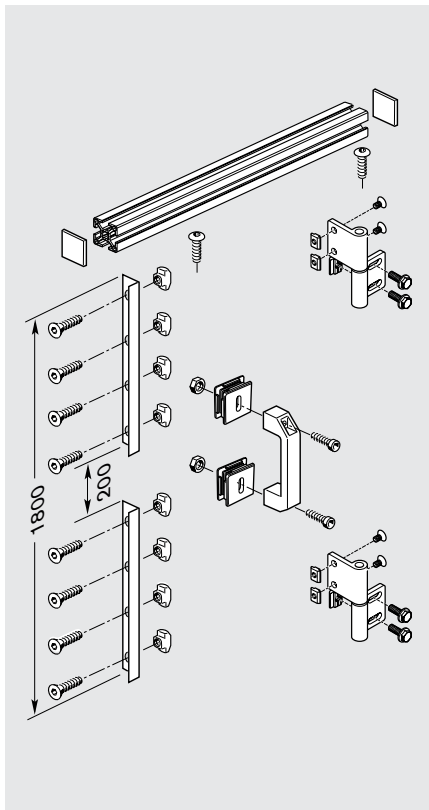


Description	Qty. Req'd.	Part Number
10 30x30 WG40 left-hand: drilled both ends and center 7.8mm; one end tapped M8, 40mm deep L=H _R , specify length ≥250mm≤2000mm	1	3 842 992 985/ __mm
20 30x30 WG40 right-hand: drilled both ends and center 7.8mm, one end tapped M8, 40mm deep L=H _R , specify length ≥250mm≤2000mm	1	8 981 992 247/ __mm
30 30x30 WG40: L=(B-80)-60, specify length ≥210mm≤2440mm	2	3 842 992 984/ __mm
40 30x45 WG40: square cut to length, L=(B-80)-60, specify length ≥210mm≤2440mm	1	R 980 992 421/ __mm
50 End cap 30x30 WG30/40	4	3 842 522 345
60 S8x25 self-tapping screw	4	3 842 523 970
70 Panel, specify type, L x W = (B-92) x (H _R /2) -12 (4-5mm thick)	2	Contact your distributor

Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

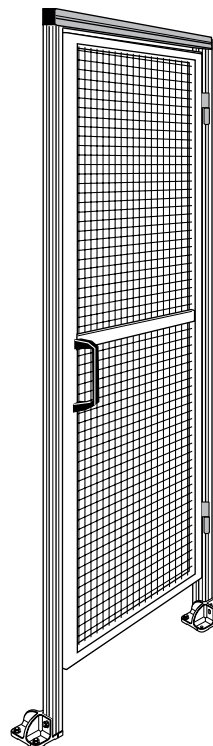
EcoSafe Guarding Components

Door Component Kit



Features:

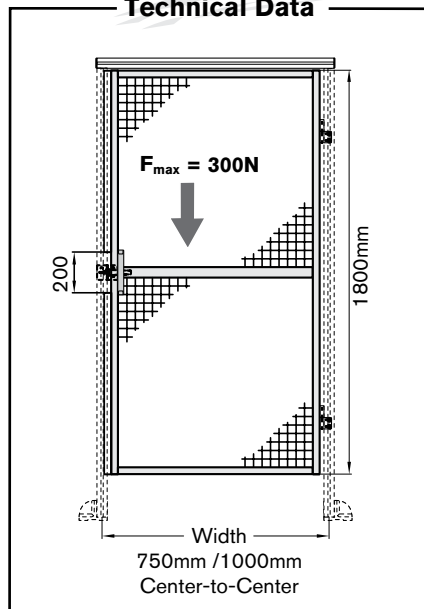
- Create hinged doors with EcoSafe protective frames
- Includes all hardware necessary, including handle, hinges, door jamb profile and top frame profile, and fasteners
- Two standard sizes available: 750mm wide x 1800mm high and 1000mm wide x 1800mm high (width measured center-to-center of support posts)
- Does NOT include lock or latch; order separately in Section 5: Doors and Door Components



6

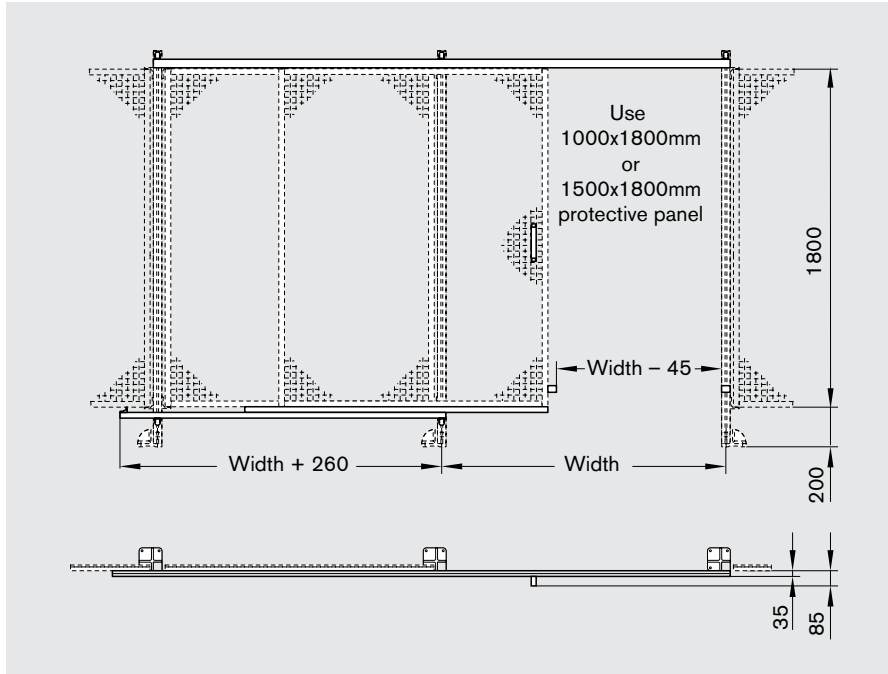
Description	Lot Size	Part Number
Door component kit, 750mm x 1800mm	1	3 842 523 165
Door component kit, 1000mm x 1800mm	1	3 842 523 166

Technical Data



Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

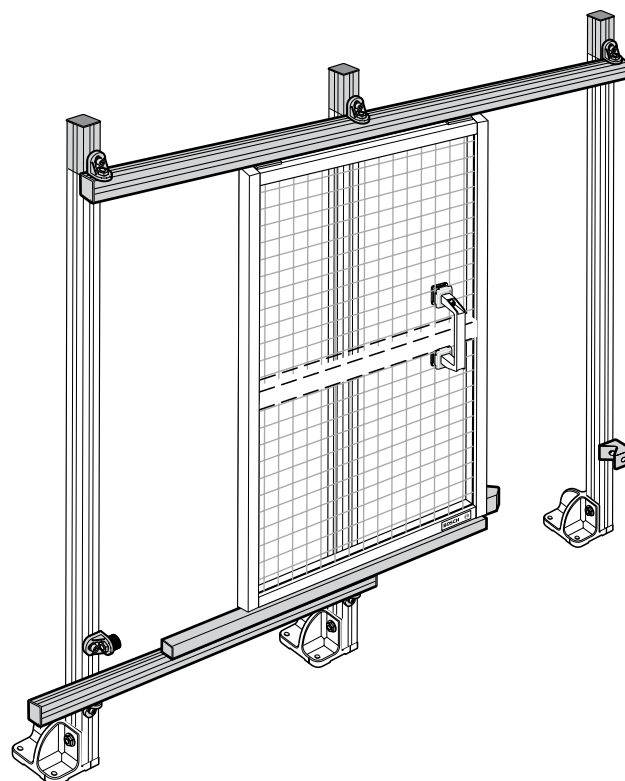
Sliding Door Kit with Overhead Trolley



Features:

- Overhead sliding doors create a wide opening clear of trip hazards, providing easy access for personnel or equipment
- A positive stop keeps the door in place when closed
- Includes all hardware necessary, including handle, rollers, stops, top and bottom frame profiles, and fasteners
- Two standard sizes available for use with standard protective frames: 1000mm wide x 1800mm high or 1500 wide x 1800mm high (width measured center-to-center of support posts)
- Uses easy-sliding Delrin® bearings and rollers
- Does NOT include lock or latch

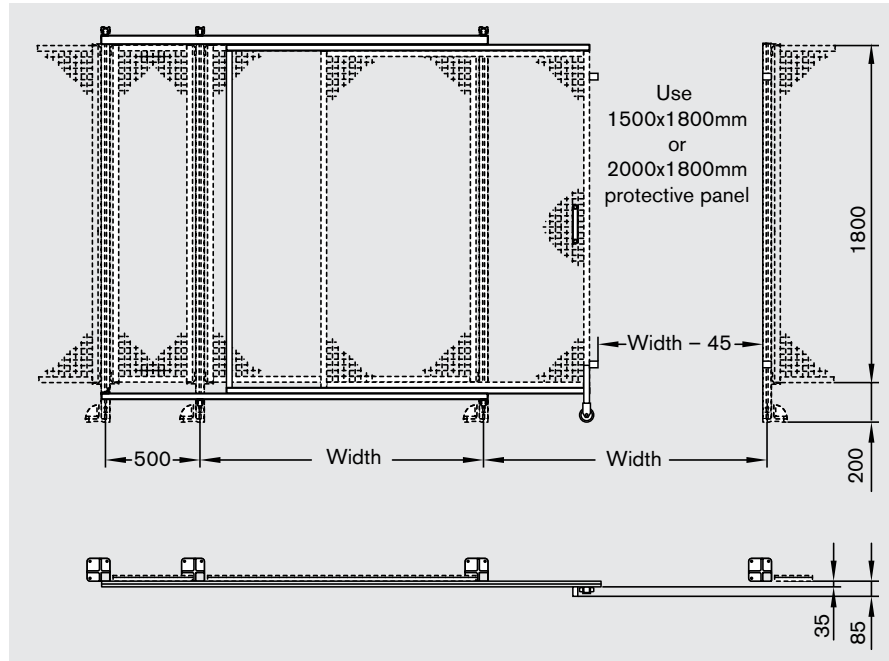
Description	Lot Size	Part Number
Overhead sliding door kit, 1000mm x 1800mm	1	3 842 524 163
Overhead sliding door kit, 1500mm x 1800mm	1	3 842 524 164



Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

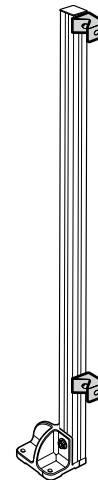
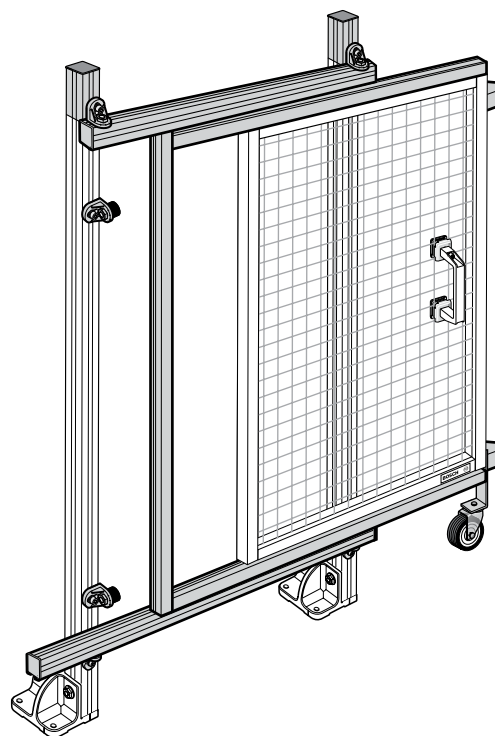
EcoSafe Guarding Components

Sliding Door Kit with Lower Rail Guide

**Features:**

- Overhead sliding doors create an extra-wide opening clear of trip hazards, providing easy access for personnel or equipment
- No guides across doorway to restrict overhead clearance
- Rollers in the upper door track provide easy movement while the lower roller guide provides additional support and stability
- A positive stop keeps the door in place when closed
- Includes all hardware necessary, including handle, rollers, stops, top and bottom frame profiles, and fasteners
- Two standard sizes available for use with standard protective frames: 1500mm wide x 1800mm high or 2000 wide x 1800mm high (width measured center-to-center of support posts)
- Uses easy-sliding Delrin® bearings and rollers
- Does NOT include lock or latch

Description	Lot Size	Part Number
Sliding door kit with roller guide 1500mm x 1800mm	1	3 842 524 165
Sliding door kit with roller guide 2000mm x 1800mm	1	3 842 524 166



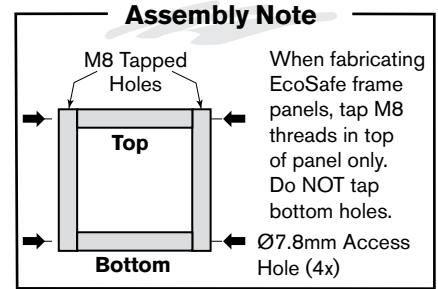
Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

EcoSafe Frame Profiles

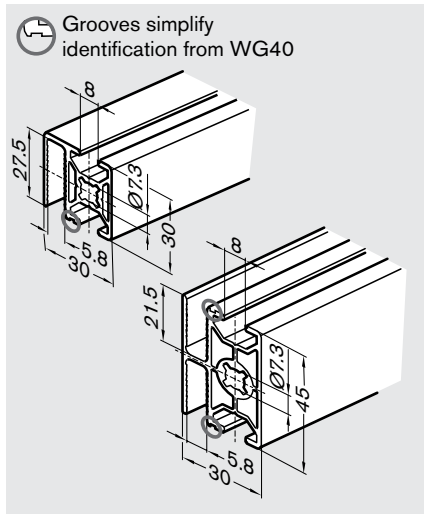
These specially designed profiles are used to construct EcoSafe frames, and can also be used for other guarding applications.

Features:

- Deep slots with serrated sides hold wire mesh or wire grill panels
- Each has two 8mm T-slots
- Spring clamps (available on the next page) allow use with a wide variety of mesh and panel thicknesses

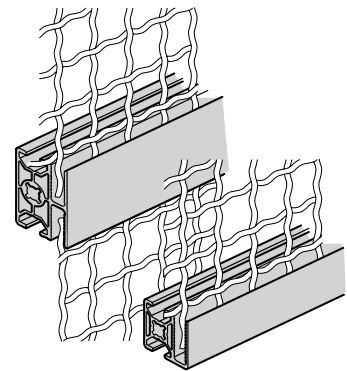


30x30 WG30 & 30x45 WG30



Features:

- Deep slots with serrated sides hold wire mesh or wire grill panels securely
- For use with panels and mesh up to 5.8mm thick (2-4mm with spring clamps, available on next page)
- Each has two 8mm T-slots



Non-Machined End Finish Options

	Part Number
Profile 30x30 WG30, pkg. of 20, 5600mm long	3 842 522 462
Profile 30x30 WG30, single, 5600mm long	3 842 522 458
Profile 30x45 WG30, pkg. of 20, 5600mm long	3 842 522 463
Profile 30x45 WG30, single, 5600mm long	3 842 522 459

Machined Options

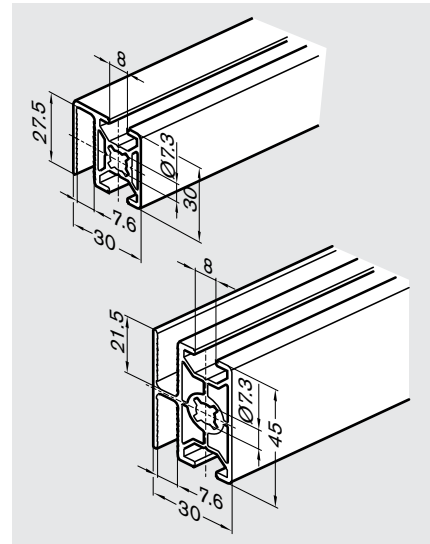
	End Finish	Part Number
Profile 30x30 WG30, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$		3 842 992 970/ __mm
Profile 30x45 WG30, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$		3 842 992 971/ __mm
Profile 30x30 WG30, right-hand, D7.8VS/D7.8VS-M8, specify length $\geq 75\text{mm} \leq 5600\text{mm}$		8 981 992 244/ __mm
Profile 30x30 WG30, left-hand, D7.8VS-M8/D7.8VS, specify length $\geq 75\text{mm} \leq 5600\text{mm}$		3 842 992 977/ __mm

Please contact your distributor for other machining options.

Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

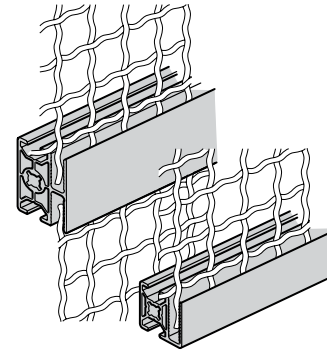
EcoSafe Frame Profiles

30x30 WG40 & 30x45 WG40



Features:





- Deep slots with serrated sides hold wire mesh or wire grill panels securely
- For use with panels and mesh up to 7.6mm thick (4-5mm with spring clamps)
- Each has two 8mm T-slots



Non-Machined End Finish Options

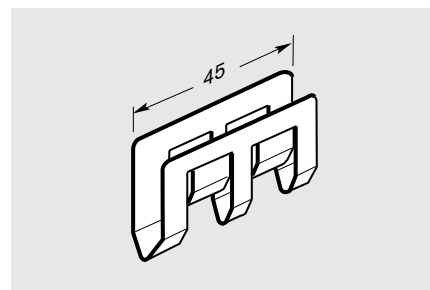
Non-Machined End Finish Options	Part Number
Profile 30x30 WG40, pkg. of 20, 5600mm long	3 842 522 464
Profile 30x30 WG40, single, 5600mm long	3 842 522 460
Profile 30x45 WG40, pkg. of 20, 5600mm long	3 842 522 465
Profile 30x45 WG40, single, 5600mm long	3 842 522 461

Machined Options

Machined Options	End Finish	Part Number
Profile 30x30 WG40, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$		3 842 992 972/ __mm
Profile 30x45 WG40, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$		3 842 992 973/ __mm
Profile 30x30 WG40, right-hand, D7.8VS/D7.8VS-M8, specify length $\geq 75\text{mm} \leq 5600\text{mm}$		8 981 992 247/ __mm
Profile 30x30 WG40, left-hand, D7.8VS-M8/D7.8VS, specify length $\geq 75\text{mm} \leq 5600\text{mm}$		3 842 992 978/ __mm

Please contact your distributor for other machining options.

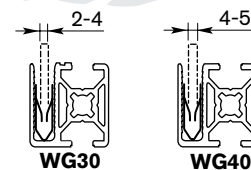
Spring Clamp



Features:

- Use with EcoSafe WG30 and WG40 frame profiles to hold thinner panels and mesh securely in the serrated groove of the profile
- Recommended minimum spacing is every 250mm, or more as needed

Assembly Note



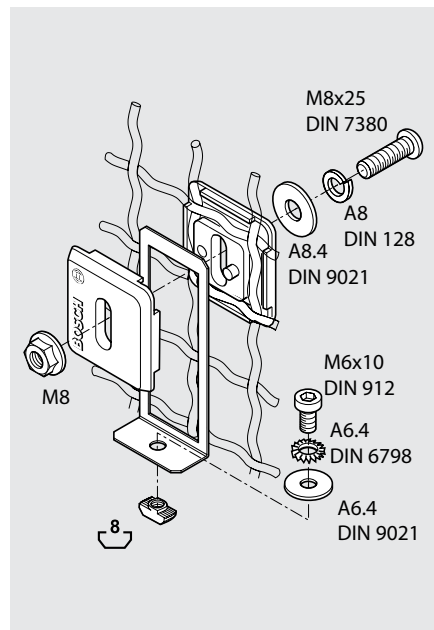
Use spring clamps when panels or mesh have a thickness smaller than the serrated slot in the profile. Use every 250mm, or more as needed.

Description	Lot Size	Part Number
Spring Clamp	1	3 842 525 014

Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

EcoSafe Accessories

Wire Mesh Grounding Terminal ⁸

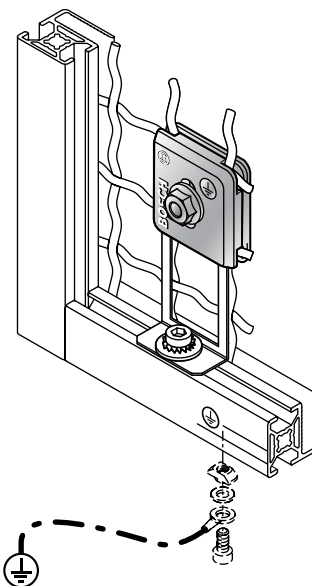


Features:

- Connects wire mesh protective panels to a grounding conductor system
- Ensures safe channeling of short circuit currents up to 63 Amps nominal current
- Includes mounting hardware

Material:

- Terminal: stainless steel
- Clamping element: black polyamide
- Hardware: zinc-plated steel



Description	Lot Size	Part Number
Wire mesh grounding terminal	1	3 842 525 833

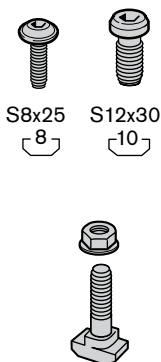
Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures







EcoSafe Accessories

Other Accessories and Installation Components

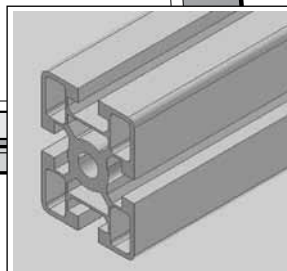
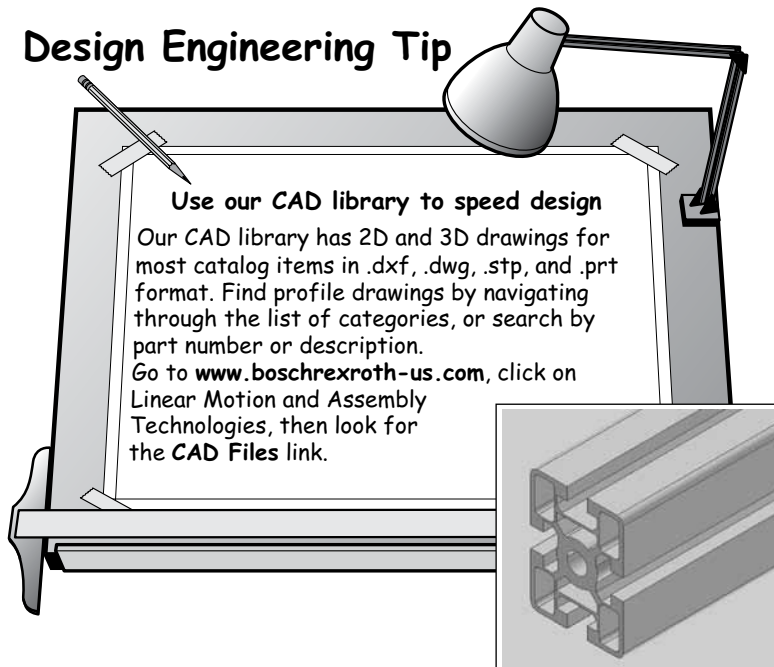
Below and on the next page is a list of other accessories and components that are typically used when installing EcoSafe guarding. These components are listed in more detail elsewhere in this catalog, but have been included here for quick reference.

From floor anchoring elements to end caps, these components are listed by their respective sections in this catalog. For additional information, refer to the section for that component.



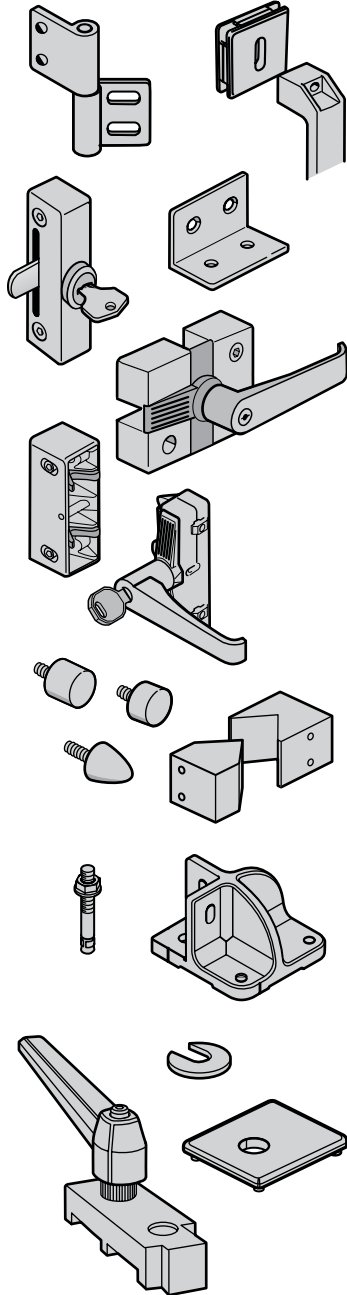
Description	Lot Size	Part Number
Section 3: Profile Connectors		
S8x25 self-tapping connection screw 	1	3 842 523 970
S8x25 self-tapping connection screw 	1	3 842 527 174
S12x30 self-tapping connection screw 	1	8 981 021 302
S12x30 self-tapping connection screw 	1	3 842 530 236
Section 4: Fasteners		
19mm M8 T-bolt fastening kit 	1	8 981 021 343
24mm M8 T-bolt fastening kit 	1	8 981 021 344

Design Engineering Tip



Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

Other Accessories and Installation Components



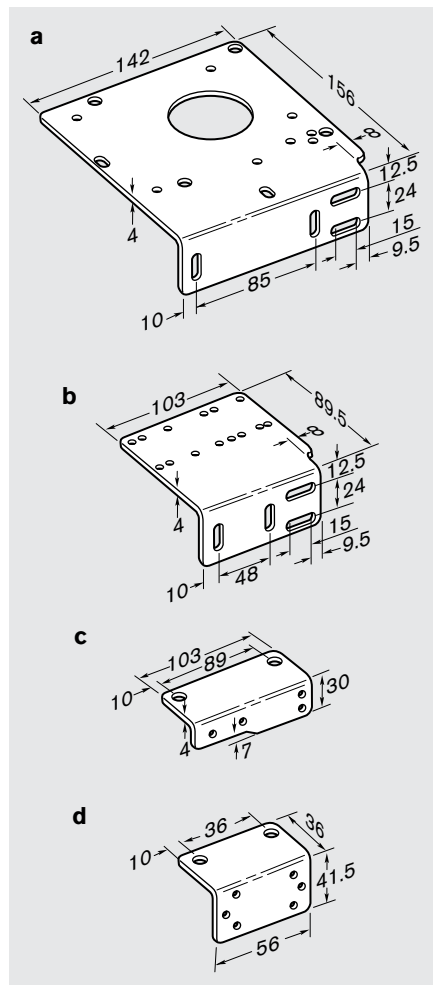
Description	Lot Size*	Part Number
Section 5: Doors and Door Components		
Handle mounting plate	1	3 842 523 308
Large cylindrical door stop	10	3 842 510 642
Small cylindrical door stop	10	3 842 510 464
Bullet-shaped door stop	10	3 842 510 165
Sliding door stop	1	3 842 524 490
Adjustable hinge	2	3 842 535 694
30x30 WG30 and WG40 lock adapter plate	1	3 842 523 243
Standard lock with random selection from 150 key variations	1	3 842 522 479
Single master key, fits all 150 random key variations (for use with lock 3 842 522 479 only)	1	3 842 523 315
Standard lock with uniform key	1	3 842 523 320
Lockable handle, 30-30/45-45, random key	1	3 842 525 821
Lockable handle, 30-30/45-45, uniform key	1	3 842 525 822
Lock, 30-30/45-45, uniform key	1	3 842 525 823
Lock for sliding doors, random key	1	3 842 525 946
Lock for sliding doors, uniform key	1	3 842 525 947
Section 7: Floor to Frame Elements		
120x120x110 footplate	1	3 842 527 553
150x150x120 footplate	1	3 842 524 469
8x76mm long anchor bolt for 120x120 footplates	1	3 842 526 560
10x89mm long anchor bolt for 150x150 footplates	1	3 842 526 561
Footplate leveling washer	100	3 842 528 189
Section 9: Caps and Finishing Elements		
EcoSafe end cap	1	3 842 522 345
Section 16: Tools		
8mm drilling and boring jig, (for Ø7.8mm & Ø11mm holes)	1	3 842 528 577
10mm drilling and boring jig (for Ø9.8mm, Ø17mm, & Ø21mm holes)	1	3 842 528 574

* For smaller quantities, please contact your local distributor.

Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

Other Guarding Components

Safety Switch Mounting Bracket Kits

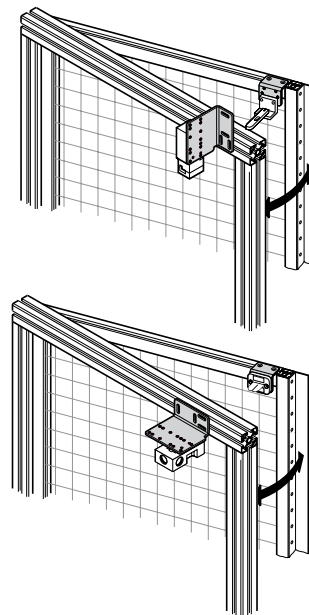


Features:

- Safety switch mounting brackets and activator brackets attach commercially available safety switches to Bosch Rexroth profiles
- Includes bracket mounting hardware

Material:

- Galvanized sheet steel



Description	Lot Size	Part Number
A Safety switch mount bracket kit (Includes safety switch bracket b and activator bracket d)	1	3 842 522 475
B Safety switch mount bracket kit (Includes safety switch bracket a and activator bracket d)	1	3 842 522 476
C Safety switch mount bracket kit (Includes safety switch bracket a and activator bracket c)	1	3 842 522 477

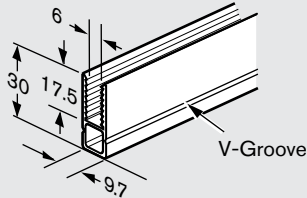
Compatibility Data

To use Safety Switch	with Latch Activator	Order Bracket Kit
Euchner NZ1 VZ Euchner NZ2 VZ Euchner NZ1 VS Euchner NZ2 VS Schmersal AZ 15/16 - B1 Schmersal AZ 15/16 - B2 Schmersal AZ 15/16 - B3 Schmersal AZ 15/16 - B20 Telemecanique XCS - A Telemecanique XCS - C Telemecanique XCS - PA (Telemecanique XCS - TE)	024298; 024299 024298; 024299 024298; 024299 024298; 024299 B2; B2-1747 B2; B2-1747 B2; B2-1747 B2; B2-1747 XCS-Z03 XCS-Z03 XCS-Z13 XCS-Z13	A
Euchner TZ Telemecanique XCS - E Telemecanique XCS - TE Telemecanique XCS - PA	024298; 024299 XCS-Z03 XCS-Z13 XCS-Z13	B
Schmersal AZM 160	N/A	C

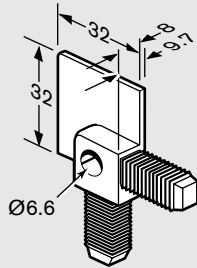
Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

Wire Mesh Frame Profile and Corner Connectors 10

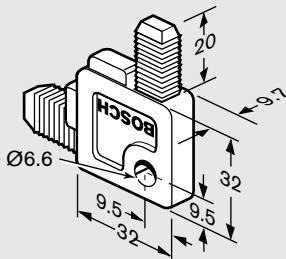
Wire Mesh Frame Profile



Inside Corner Connector



Outside Corner Connector

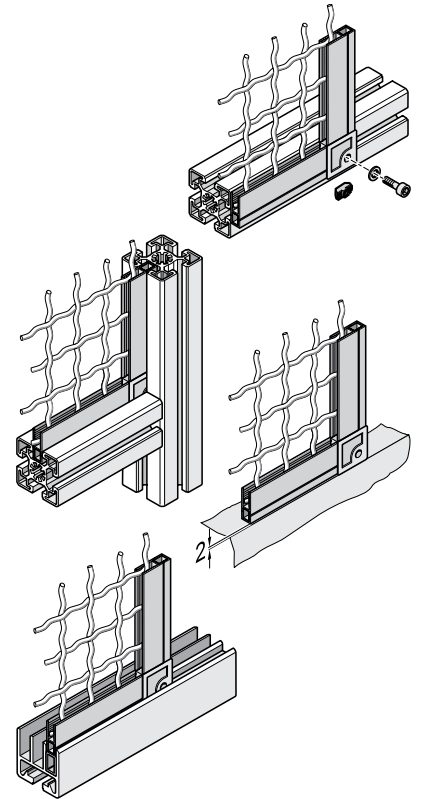


Features:

- Used to construct safety guards, protective enclosures, sliding doors, gate frameworks, etc.
- Toothed slot in profile holds 12 AWG wire mesh with 12mm or 40mm wire spacing
- Completed framework fits into 10mm T-slots
- Can be mounted to the surface of a structure using holes in corner connectors or using the V-groove in the frame profile as a drilling guide for mounting holes (use M6 screws and T-nuts for surface mounting to profile T-slots)
- Corner connectors join sections of wire mesh frame profile to create inside or outside corners
- Outside corner connectors require cutting a 24x24mm notch in the wire mesh to accommodate the connector

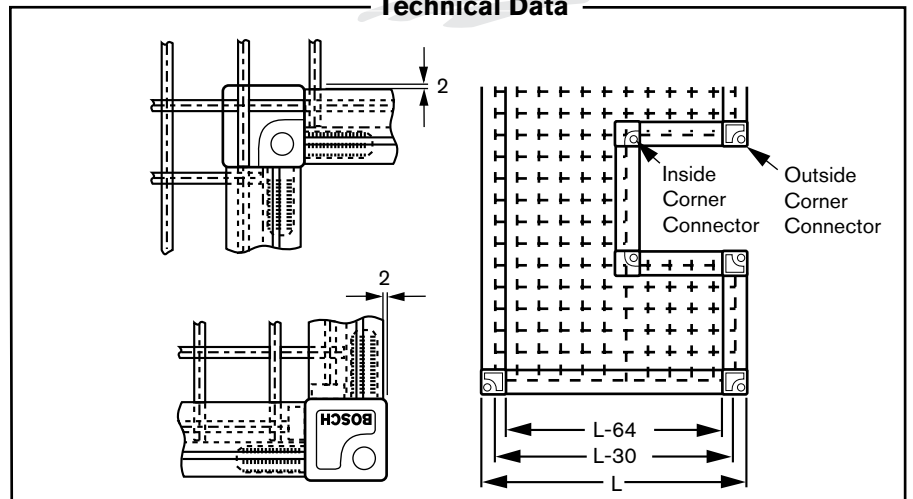
Material:

- Wire mesh frame: black anodized aluminum
- Corner connectors: black polyamide 6



Description	Lot Size	Part Number
Wire mesh frame profile, 3000mm long	1	3 842 305 766
Inside corner connector	1	3 842 305 768
Outside corner connector	1	3 842 305 767

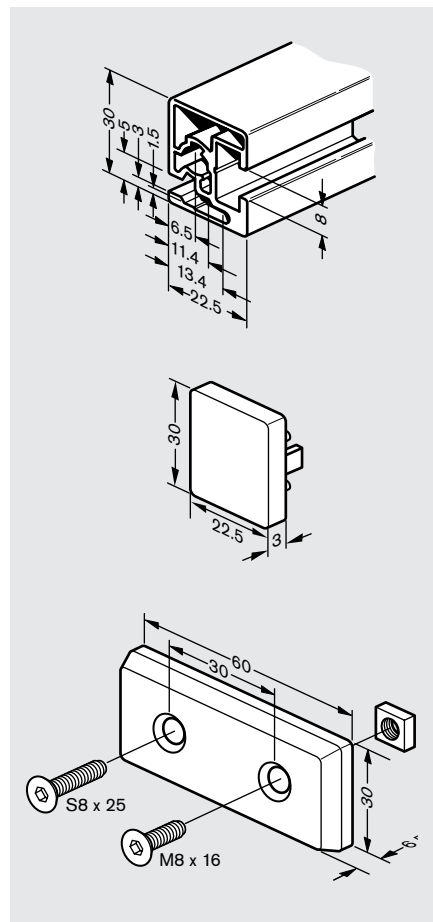
Technical Data



Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

Other Guarding Components

Frame Profile (22.5x30F)

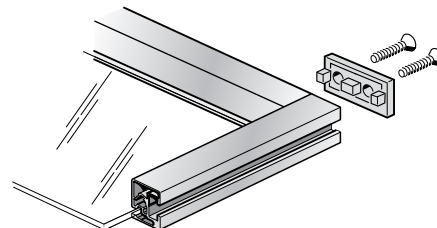


Features:


- Stepped slot to hold panels 1.5mm, 3mm, or 5mm thick
- Economical means for building material trays and shelves
- End caps and joining connectors available separately
- Has one 8mm T-slot

Material:


- Frame profile: anodized aluminum
- End cap: black polyamide 12 (conductive)
- Joining connector: black polyamide



6


Non-Machined End Finish Options	Lot Size*	Part Number
Profile 22.5x30F, pkg. of 20, 5600mm long		3 842 515 229
Profile 22.5x30F, single, 5600mm long		3 842 515 228
Corner connector with hardware	4	3 842 535 661
End cap 	1	3 842 516 720

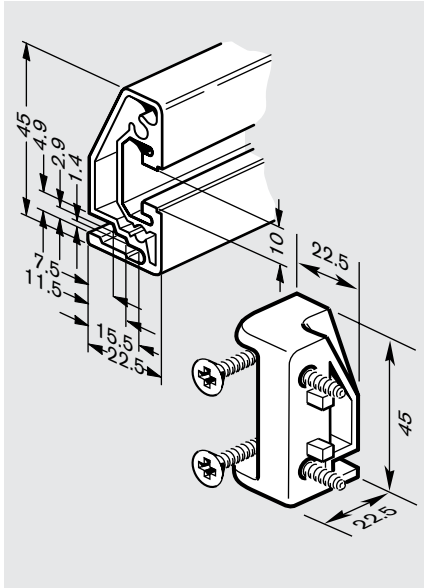
* For smaller quantities, please contact your local distributor.

Machined Options	End Finish	Part Number
Profile 22.5x30F, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$		3 842 992 493/ __mm

Please contact your distributor for other machining options.

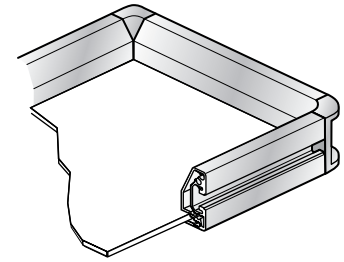
Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

Frame Profile (22.5x45F) 



Features:

- Stepped slot to hold panels 1.5mm, 3mm, or 5mm thick
- Corner brackets with self-tapping screws available separately
- End cap available; see Section 9: Caps and Finishing Elements
- Has one 10mm T-slot




Material:

- Frame profile: anodized aluminum
- Corner bracket: die-cast zinc

Non-Machined End Finish Options	Lot Size	Part Number
Profile 22.5x45F, pkg. of 20, 5600mm long		3 842 508 102
Profile 22.5x45F, single, 5600mm long		3 842 508 103
Corner bracket with hardware	4	3 842 535 637
Screw, countersunk, self-tapping 4.5 Phillips (replacement)		3 842 508 022

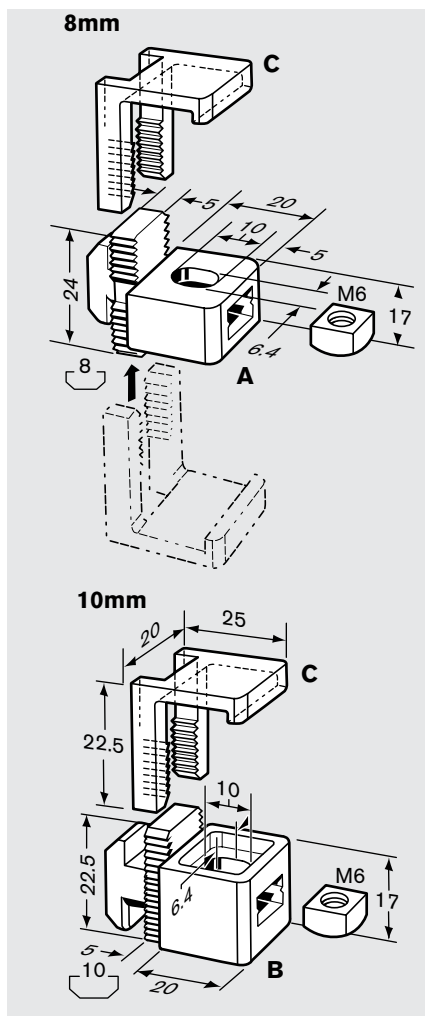
* For smaller quantities, please contact your local distributor.

Machined Options	End Finish	Part Number
Profile 22.5x45F, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$		3 842 992 411/ __mm

Please contact your distributor for other machining options.

Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

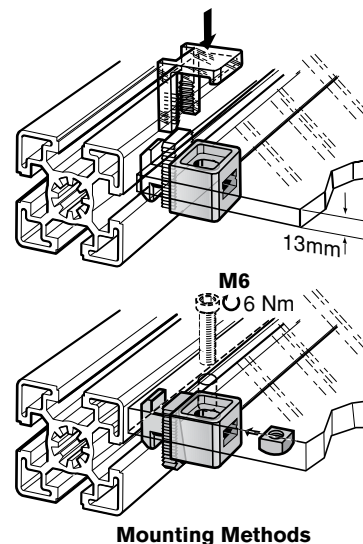
Other Guarding Components

Variofix Panel Mounting Fasteners ⁸ ¹⁰ **GoTo****Features:**

- Used for mounting panels, panes, and plates up to 13mm thick to 8mm or 10mm T-slotted profiles
- Panels can be mounted after the frame structure is completed
- Sturdy construction
- Quick installation—fastener twist-locks into place in the profile's T-slot
- Panels can be secured in one of two ways: with the detent clip, or with M6 screws and nut (M6 nut pre-installed, contact your distributor for appropriate length M6 screws)
- Variofix puller tool (sold separately, see Section 16: Tools for details) simplifies detent clip removal

Material:

- Variofix fastener: black polyamide
- Detent clips: clear plastic

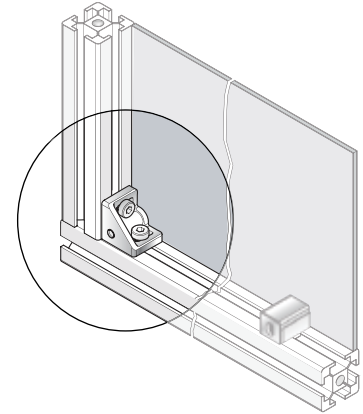
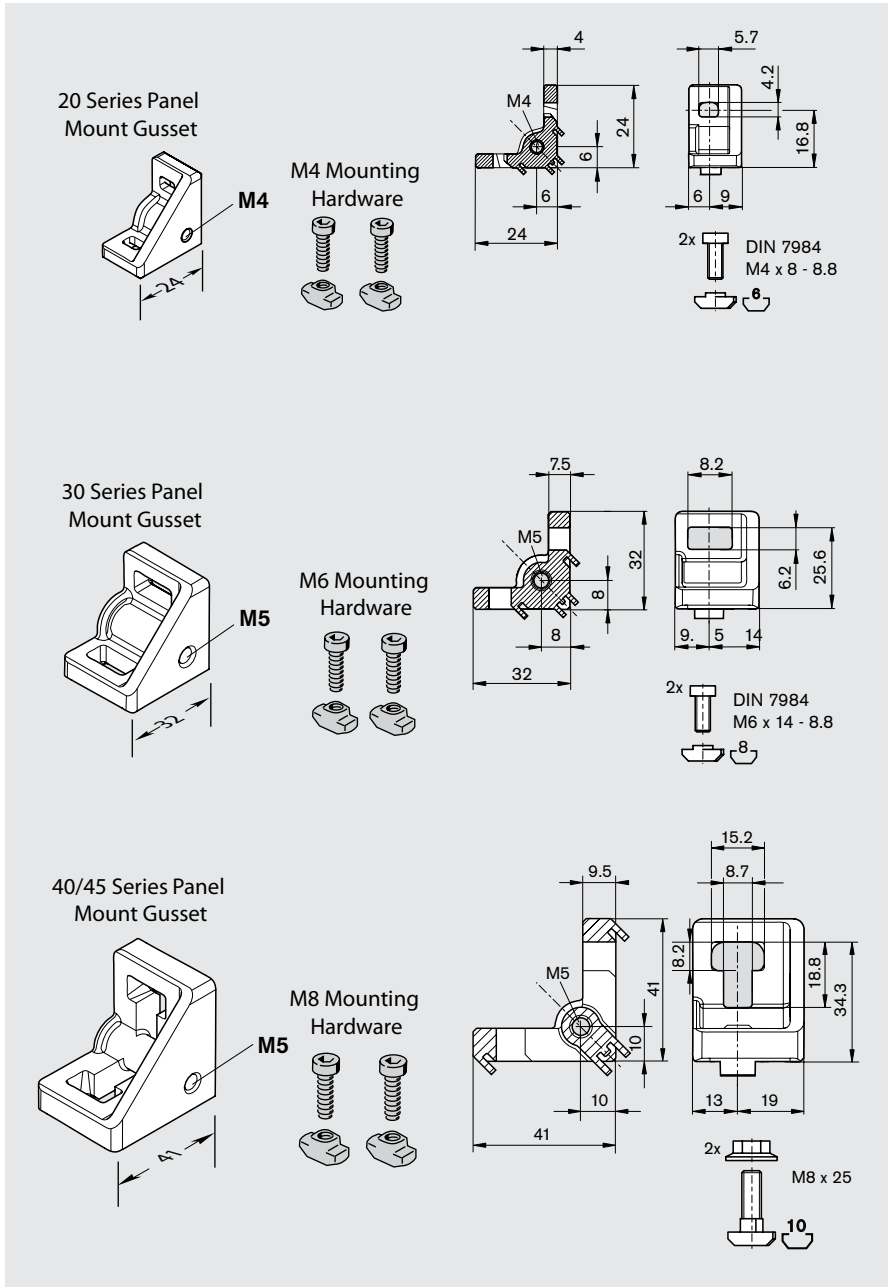
**Mounting Methods**

Description	Lot Size*	Part Number
A 8mm Variofix fastener without clip	10	3 842 535 696 GoTo
B 10mm Variofix fastener without clip	10	3 842 529 239 GoTo
C 8mm & 10mm Variofix detent clip	10	3 842 184 738 GoTo
Variofix puller tool (see Section 16: Tools for details)	1	3 842 526 589

* For smaller quantities, please contact your local distributor.

Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

Panel Mount Gussets



Features:

- Panel mount gusset doubles as both profile connector and panel mount
- Pre-tapped panel mount gusset for easy installation
- Gusset kit includes mounting hardware

Material:

- Gusset: Die-cast aluminum

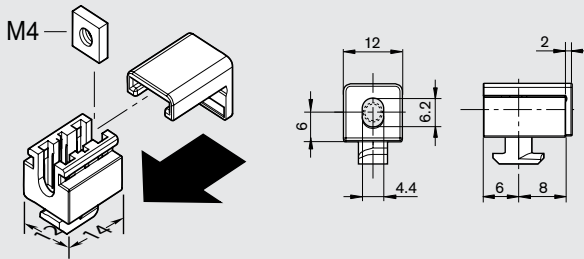
Description	Lot Size	Part Number
20 Series Panel Mount Gusset	1	3 842 536 489
20 Series Panel Mount Gusset Kit	1	3 842 536 670
30 Series Panel Mount Gusset	1	3 842 536 490
30 Series Panel Mount Gusset Kit	1	3 842 536 671
40/45 Series Panel Mount Gusset	1	3 842 536 491
40/45 Series Panel Mount Gusset Kit	1	3 842 536 672

Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

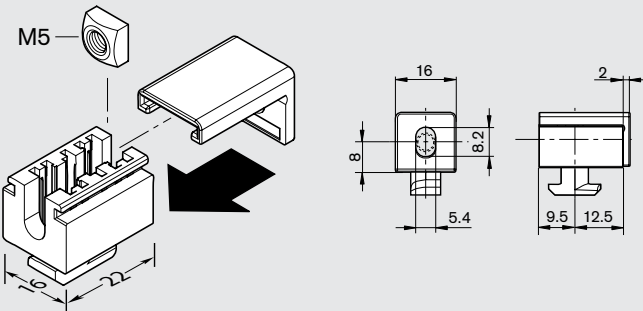
Other Guarding Components

Variofix Blocks

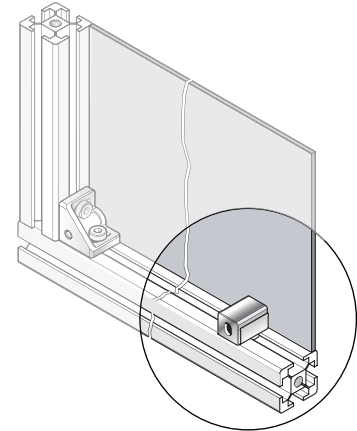
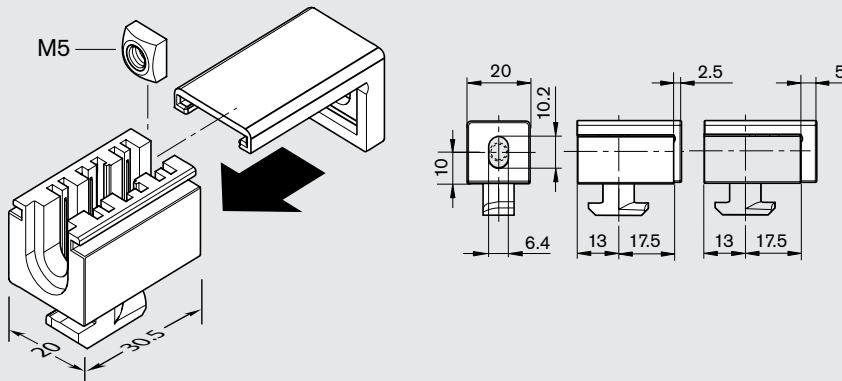
20 Series Variofix Block



30 Series Variofix Block



40/45 Series Variofix Block



Features:

- Variofix block steadies wider panels
- Gusset kit includes mounting hardware

Material:

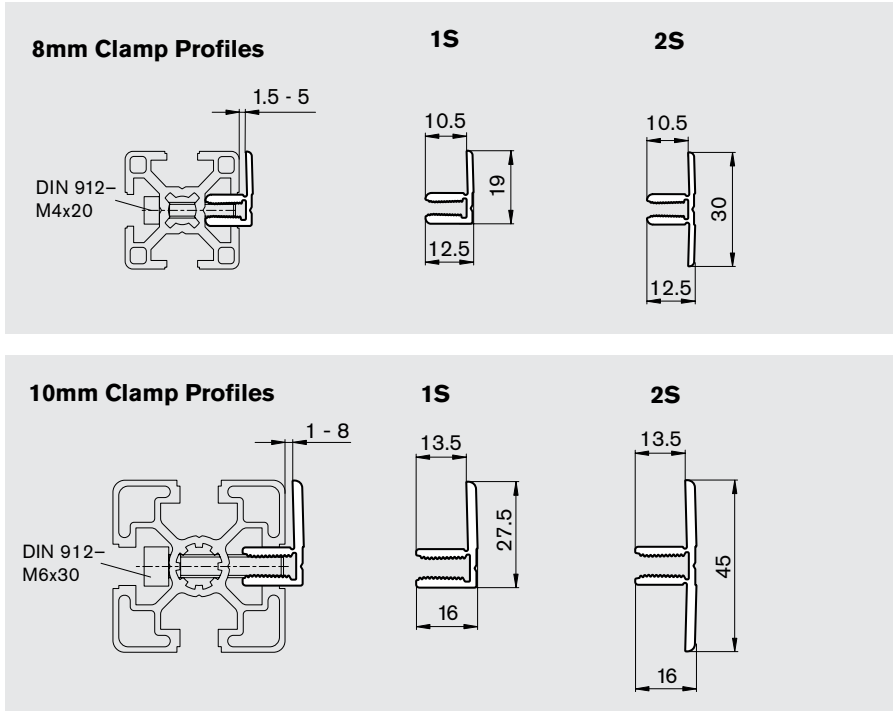
- Variofix block: PA, black

Description	Lot Size*	Part Number
20 Series Variofix Block	10	3 842 536 493
30 Series Variofix Block	10	3 842 536 494
40/45 Series Variofix Block	10	3 842 536 495

* For smaller quantities, please contact your local distributor.

Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

Heavy-Duty 8mm and 10mm Clamp Profiles 



Features:

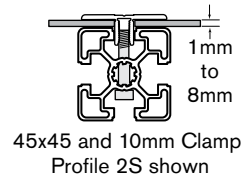
- Allow easy installation of panels, grilles and panes to standard profile frames
- Use for surface mounting thin panels to profiles with 8 or 10mm T-slots
- Locking screws provide strong, secure connection

Material:

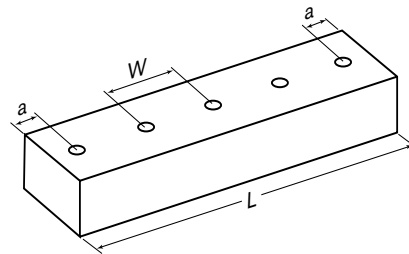
- Anodized aluminum

Machining Required:

- Through-holes in frame profile for locking screws (see Assembly Note below)



Assembly Note



$$a = \frac{L - (n \times W)}{2}$$

For optimum hole spacing in the frame profile, use the formula above to calculate (a) – the distance between the profile edge and the end holes

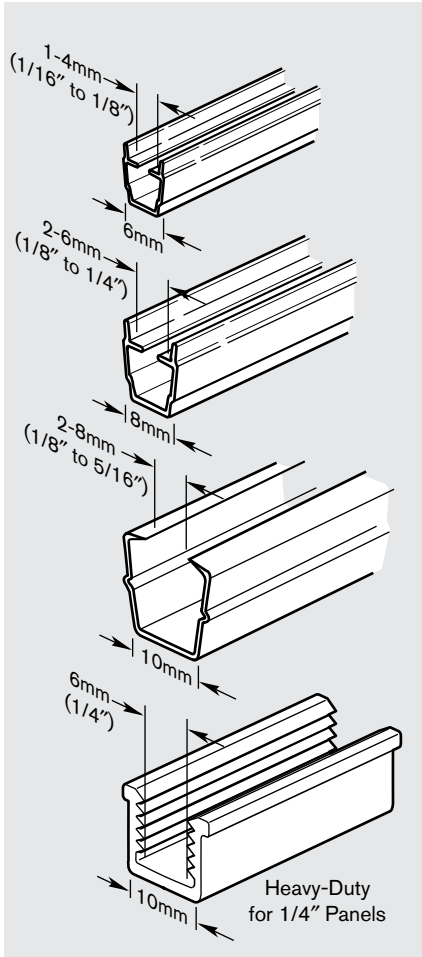
NOTE:
 n = The number of screw holes
 W = Space between holes
 a = Dimension from hole to end profile must be ≥ 50mm
 L = Length of profile

Description	Part Number
8mm Clamp Profile 1S, single, 3000mm long	3 842 524 057
8mm Clamp Profile 1S, Pkg. 10, 3000mm long	3 842 524 058
8mm Clamp Profile 1S, Single, -/-, Specify length ≥30mm≤3000mm	3 842 993 017/ __mm
8mm Clamp Profile 2S, single, 3000mm long	3 842 524 060
8mm Clamp Profile 2S, Pkg. 10, 3000mm long	3 842 524 061
8mm Clamp Profile 2S, Single, -/-, Specify length ≥30mm≤3000mm	3 842 993 018/ __mm
10mm Clamp Profile 1S, single, 3000mm long	3 842 524 063
10mm Clamp Profile 1S, Pkg. 10, 3000mm long	3 842 524 064
10mm Clamp Profile 1S, Single, -/-, Specify length ≥30mm≤3000mm	3 842 993 019/ __mm
10mm Clamp Profile 2S, single, 3000mm long	3 842 524 066
10mm Clamp Profile 2S, Pkg. 10, 3000mm long	3 842 524 067
10mm Clamp Profile 2S, Single, -/-, Specify length ≥30mm≤3000mm	3 842 993 020/ __mm

Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

6

Panel Support Inserts    **GoTo**

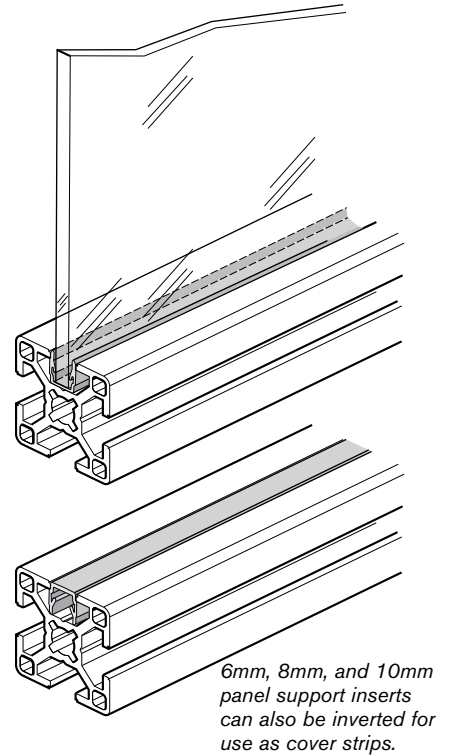


Features:

- Securely fasten panels from 2mm to 8mm thick in profiles with 6mm, 8mm, or 10mm T-slots
- Sturdy design prevents panels from shifting within the T-slot
- Easy snap-in installation
- Can be inverted for use as a black T-slot cover strip
- When using heavy 1/4" panels in a 10mm T-slot, the heavy-duty panel support is recommended

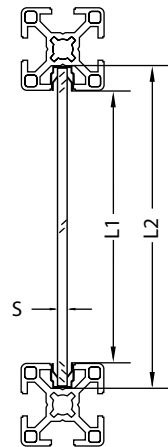
Material:






- Black polypropylene



Description	Lot Size	Part Number
6mm panel support insert, 2000mm long	1	3 842 518 343 <i>GoTo</i>
8mm panel support insert, 2000mm long	1	3 842 518 347 <i>GoTo</i>
10mm panel support insert, 2000mm long	1	3 842 518 351 <i>GoTo</i>
Heavy-duty 10mm panel support insert, 2000mm long	1	3 842 146 906

Panel Sizing Dimensions



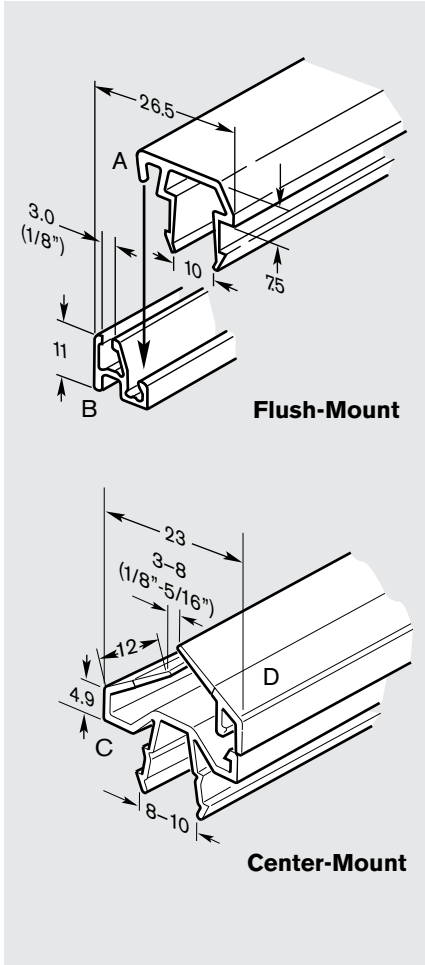
	L2 (mm)	S (mm)
	L1 + 7.7*	1-4
	L1 + 14.4*	2-6
	L1 + 21.4*	2-8
	L1 + 16*	6 (1/4≤)
	L1 + 24.4*	2-8

* Tolerance is +0.0 -0.1
Note: 45x45 and 45x90 only!

Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

Other Guarding Components

Removable Panel Support Inserts

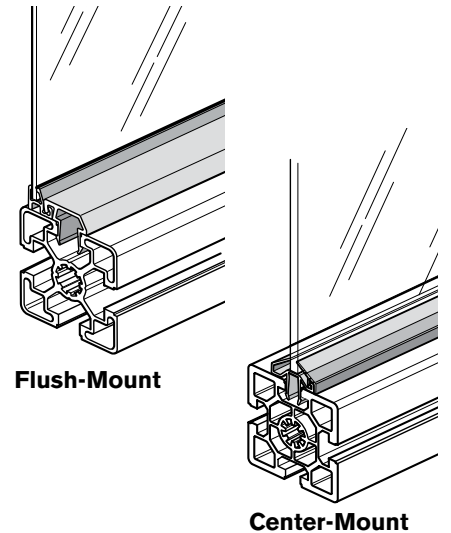


Features:

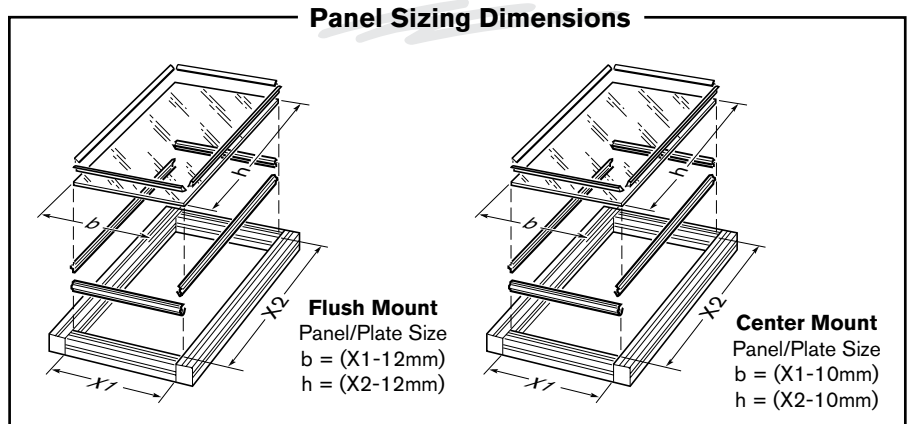
- Easy snap-in installation, even after structure is built
- Flush-mount inserts (components A and B) hold 3mm (1/8") thick panels to profiles with 10mm T-slots, with panels fitting flush with the front edge of the profile
- Center-mount inserts (components C and D) hold panels 3–8mm (1/8"–5/16") thick to profiles with 8mm or 10mm T-slots, with panels centered over the profile's T-slot
- Provides clean, finished appearance
- Prevents dust and moisture migration
- Allows panel or pane replacement without disassembling structure

Material:

- Flush-mount insert (A & B): black polypropylene
- Center-mount insert (C & D): black PVC



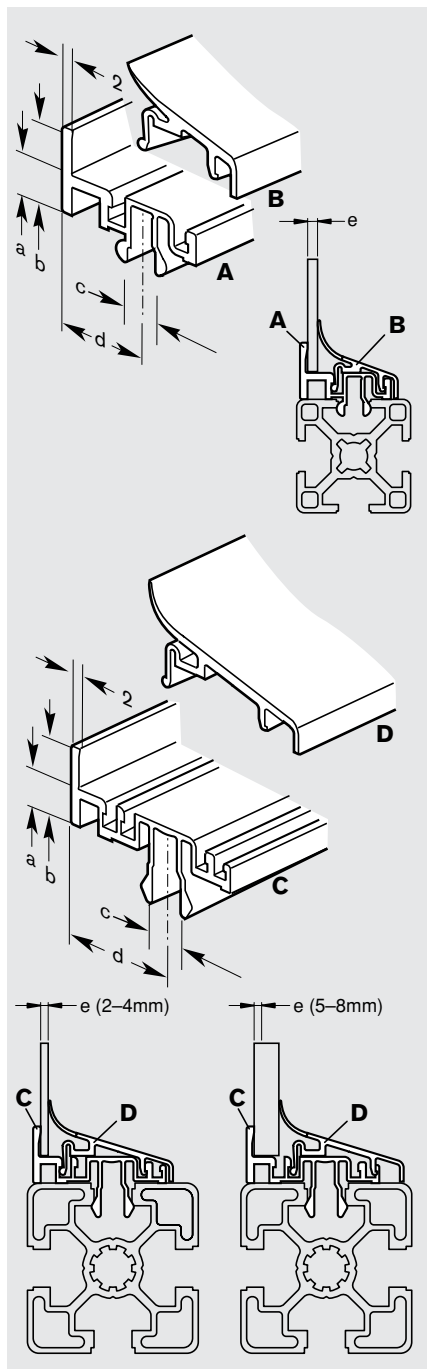
Description	Lot Size	Part Number
A Flush-mount insert, component A, 2000mm long	1	3 842 512 313
B Flush-mount insert, component B, 2000mm long	1	3 842 512 307
C Panel support base, 2000mm long	1	3 842 519 565 <i>GoTo</i>
D Panel support glazing strip, 2000mm long	1	3 842 519 567



GoTo boschrexroth-us.com/framing to get these in stock items **FAST** from your local distributor

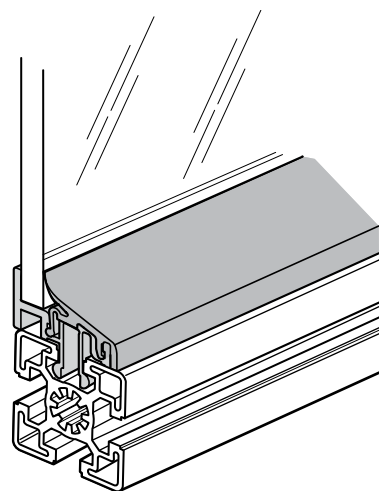
Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

Flush-Mount Removable Panel Support Inserts 



Features:

- Securely fasten panels 2–6mm thick in 30-series profiles or 2–8mm thick in 40-series profiles
- Flush-mount panel inserts for 45-series profiles have two positions: one to hold panels 2–4mm thick, the other holds panels 5–8mm thick
- Easy snap-in installation, even after structure is built
- Panel mounts flush with profile's surface; provides clean, finished appearance
- Prevents dust and moisture migration; aluminum strip is suitable for clean-room applications
- Does not interfere with unidirectional air flow
- Allows panel or pane replacement without disassembling structure
- Resistant to acid, caustic solutions, alcohol, mineral oil, and benzene




Material:

- Support strip A or C: anodized aluminum
- Glazing strip B or D: light gray polypropylene/thermoplastic elastomer

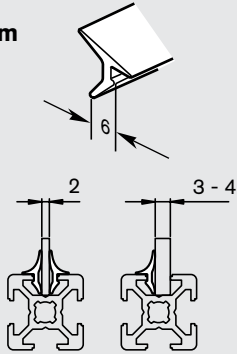
Description	Lot Size	Part Number
30-series panel support base A , 2000mm long	1	3 842 524 025
30-series panel glazing strip B , 2000mm long	1	3 842 524 026
40-series panel support base A , 2000mm long	1	3 842 529 761
40-series panel glazing strip B , 2000mm long	1	3 842 529 762
45-series panel support base C , 2000mm long	1	3 842 524 027
45-series panel glazing strip D , 2000mm long	1	3 842 524 028

Profile series	Dimension in mm				Panel Thickness e
	a	b	c	d	
30mm	7	15	8	14	2–6mm
40mm	10	20	10	17	2–8mm
45mm	7	15	10	20	2–8mm

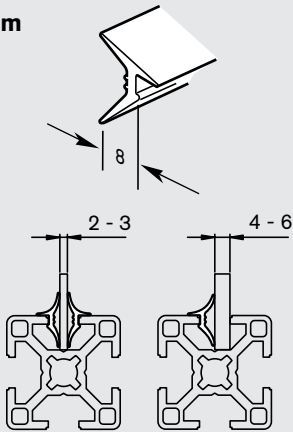
Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

Glazing Strip 6 8 10 

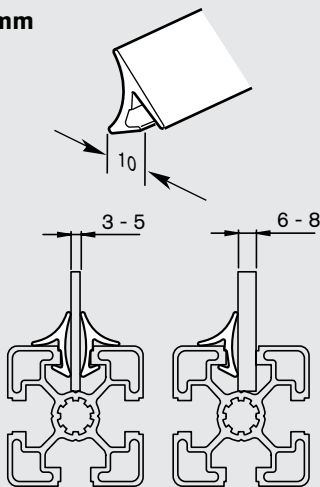
6mm



8mm



10mm

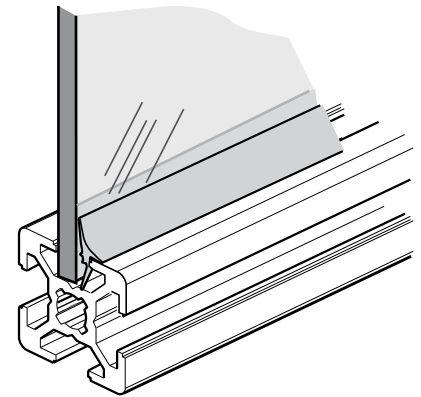


Features:

- Effectively seals panels or panes into the profile T-slot
- Available for profiles with 6mm, 8mm, or 10mm T-slots
- Can be added after a structure is assembled
- Prevents panels from rattling
- Use one for thicker panels, or install on both sides of the panel for thinner panels
- Resistant to acid, caustic solutions, alcohol, mineral oil, and benzene

Material:

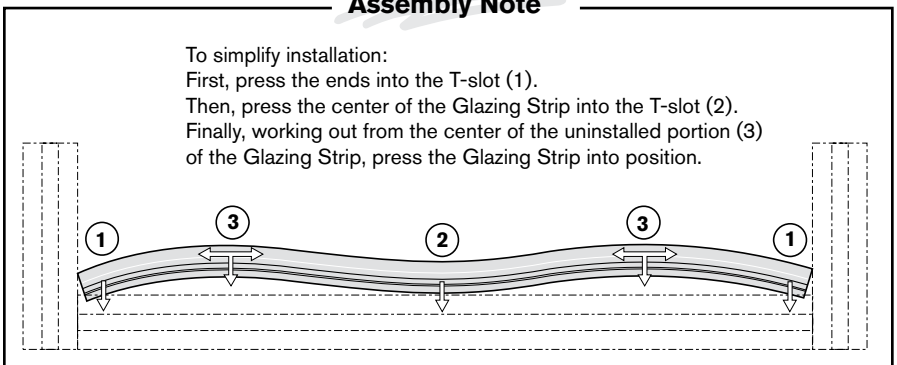
- Light gray thermoplastic elastomer



Description	Lot Size	Part Number
6mm glazing strip, 10,000mm long	1	3 842 523 493
8mm glazing strip, 10,000mm long	1	3 842 523 494
10mm glazing strip, 10,000mm long	1	3 842 527 185

Assembly Note

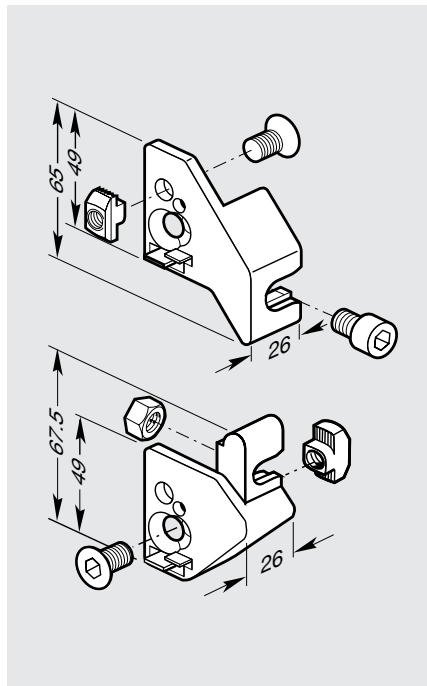
To simplify installation:
 First, press the ends into the T-slot (1).
 Then, press the center of the Glazing Strip into the T-slot (2).
 Finally, working out from the center of the uninstalled portion (3) of the Glazing Strip, press the Glazing Strip into position.



Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

Other Guarding Components

Removable Frame Brackets 8 10

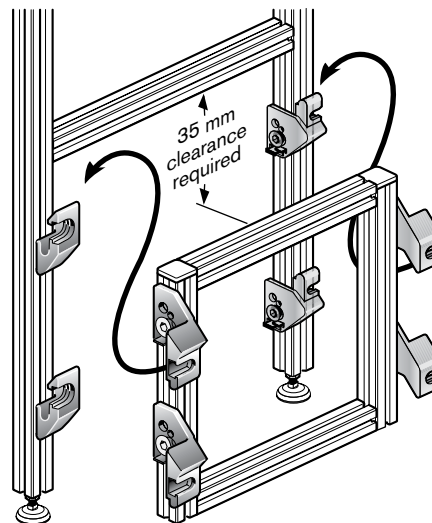


Features:

- Construct lift-off guards and panel assemblies where safety requires removal with tools
- Allows easy access to structures or machinery; simply loosen the locking screw on each bracket and lift off
- Includes mounting hardware
- Same brackets are used for both left- and right-side mounting; simply orient 180° opposed

Material:

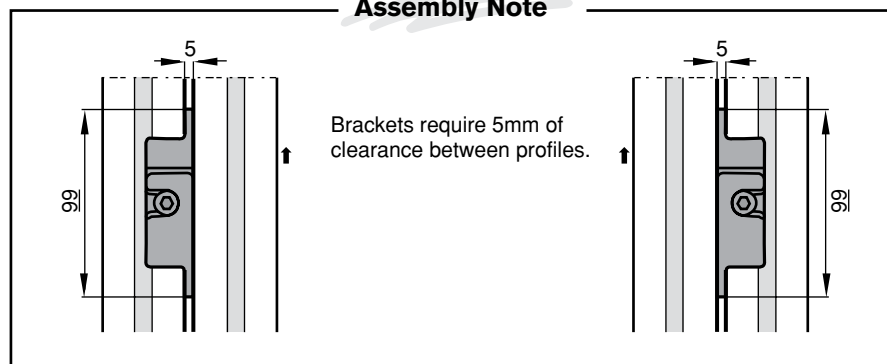
- Bracket: die-cast zinc
- Hardware: zinc-plated steel



Description	Lot Size*	Part Number
Removable frame brackets for connecting profile with 45mm side to profile with 30mm side 8 10	4	3 842 515 531
Removable frame brackets for connecting two profiles with 45mm sides 10 10	4	3 842 515 863

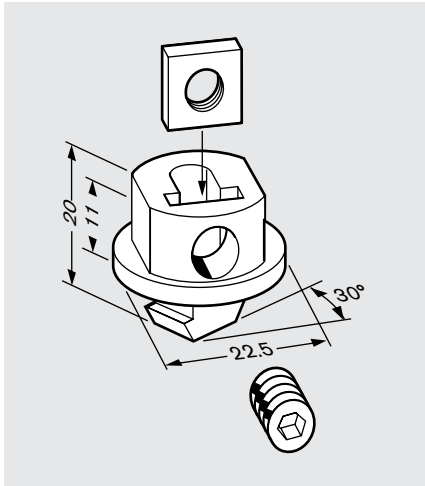
* For smaller quantities, please contact your local distributor.

Assembly Note



Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

Clamp Bushing  

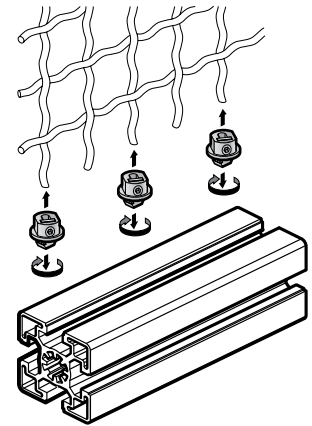


Features:

- Economical means of attaching wire mesh screens to profiles with 8mm or 10mm T-slots
- Accommodates wire diameters up to 3.1mm

Material:

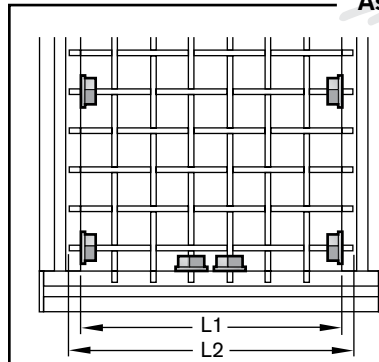
- Die-cast zinc



Description	Lot Size*	Part Number
Clamp bushing	10	3 842 515 244


* For smaller quantities, please contact your local distributor.


Assembly Note



To simplify installation:

1. Place bushings on wire mesh so T-heads align with the profile T-slot
2. Tighten set screws until clamp bushings are snug on the wire mesh
3. Insert bushings into the profile T-slot, loosen set screw, and twist lock the clamp bushings into place in the T-slot
4. Retighten set screws

 $L2=L1+9$

 $L2=L1+12$

Section 6: EcoSafe™ Guarding and Machine/Safety Enclosures

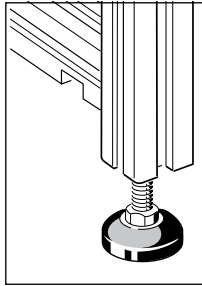
Notes

Section 7: Floor to Frame Elements

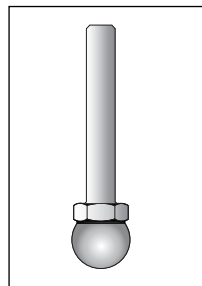
Overview

Floor to frame elements ensure that every structure you build has a sturdy, secure foundation. The wide variety of feet, base plates, foot plates, and casters available will help you level, roll, or fasten your structure to meet your needs.

In addition, feet and casters can be used on the shop floor or in offices, and are designed with protective materials to prevent damage to flooring.



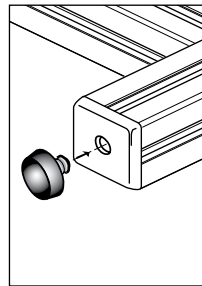
Leveling Feet and Accessories
7-1 & 7-2



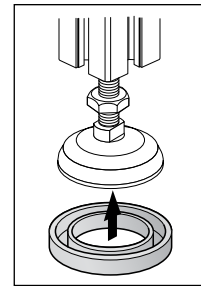
Steel Spindles
7-3



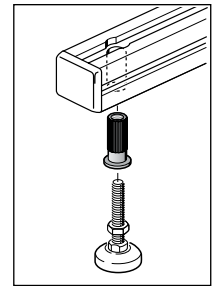
Base Plates with Screw Holes
7-4



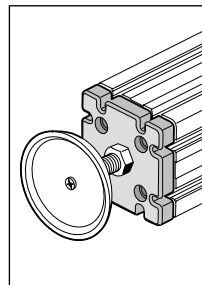
Floor Guard Foot
7-5



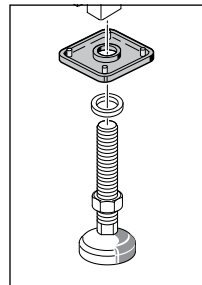
Dampening Pads
7-5



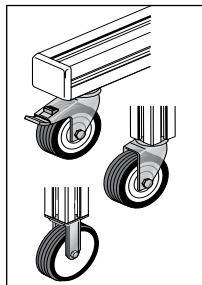
Threaded Sleeve for Leveling Feet
7-6



Leveling Foot Plates
7-6



End Caps with Hole
7-7



Heavy-Duty Casters
7-8

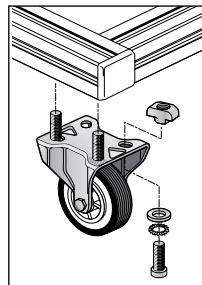
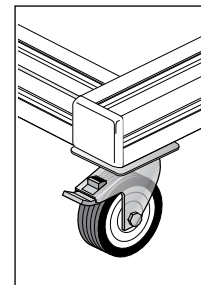
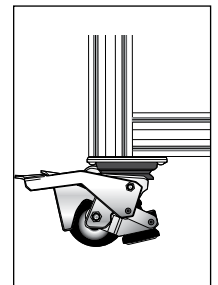


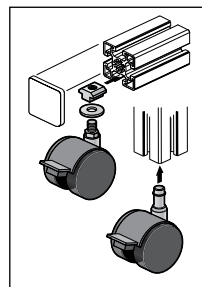
Plate-Mounted Casters
7-9



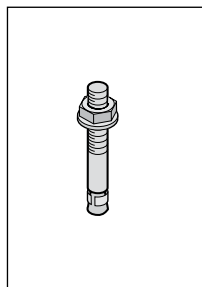
Heavy Duty Casters with Mounting Plate
7-10



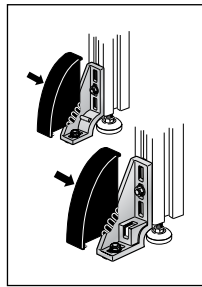
Caster Lifting Wheel
7-11



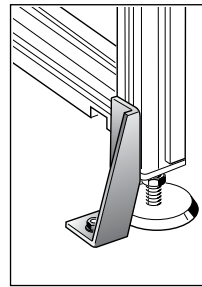
Double-Wheel Casters
7-12



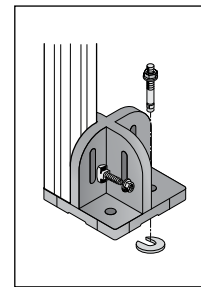
Anchor Bolts
7-13



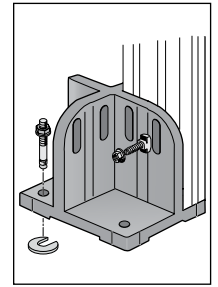
Die-Cast Foundation Brackets
7-13



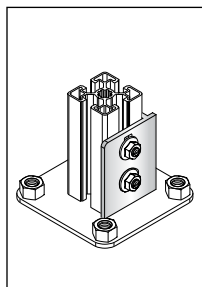
Foundation Brackets
7-14



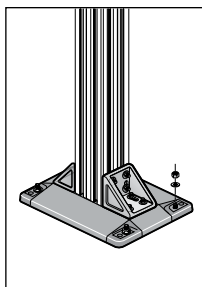
Footplate 120x120x110
7-15



Footplate 150x150x120
7-16



Steel Base Plates
7-17

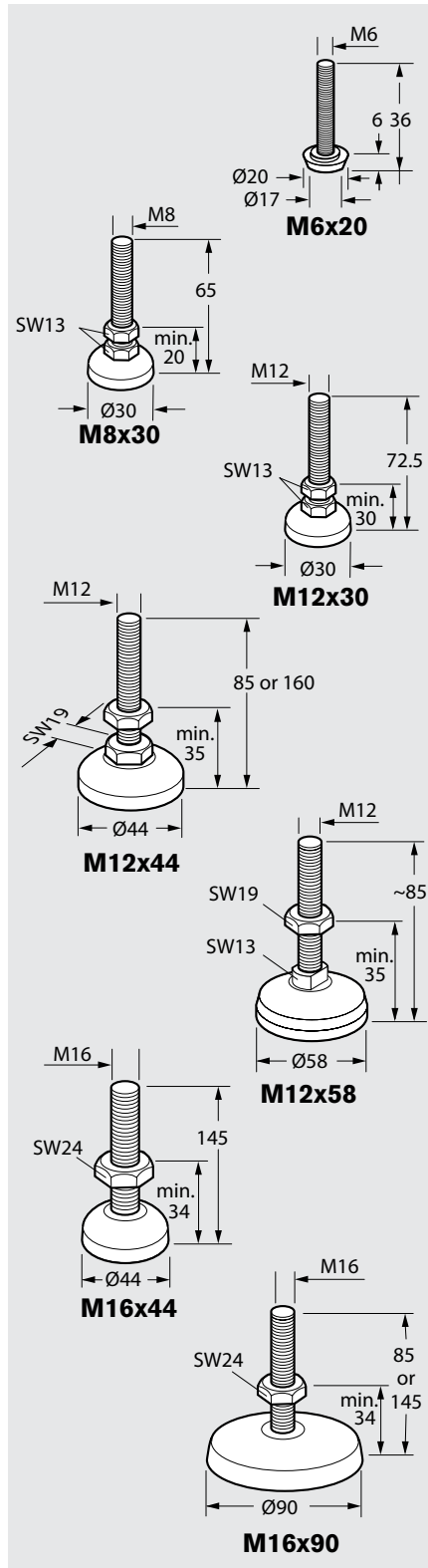
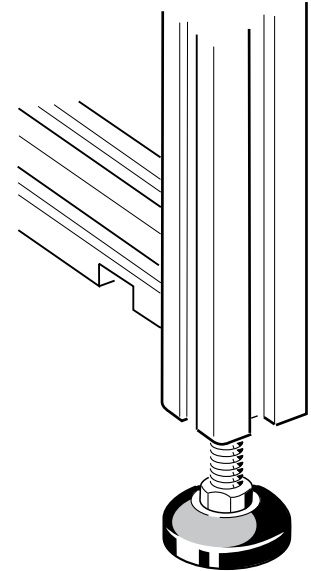


Base Plates
7-18

Section 7: Floor to Frame Elements

Leveling Feet and Accessories

Threaded Leveling Feet ⁶ ⁸ ¹⁰ *GoTo*



Features:

- Provide a sturdy foundation for machine frames, tables, workstations, conveyor supports, etc.
- All except M12x33 feature base that swivels 5° to compensate for uneven floors
- Threaded shaft allows adjustment to ensure levelness

Material:

- Threaded shaft and jam nut (where applicable): galvanized steel
- Foot: black plastic for M6x20, zinc-plated steel for all others

Description	Adjustment Range (mm)	Lot Size	Part Number
6mm T-slotted profiles ⁶			
M6x20 leveling foot	20	1	3 842 518 743
8mm T-slotted profiles ⁸			
M8x30 leveling foot	25	1	3 842 502 257 <i>GoTo</i>
10mm T-slotted profiles ¹⁰			
M12x30 leveling foot	42.5	1	3 842 529 025
M12x44 leveling foot (85mm)	30	1	3 842 352 061 <i>GoTo</i>
M12x44 leveling foot (160mm)	80	1	3 842 536 470
M12x58 leveling foot	30	1	3 842 511 893 <i>GoTo</i>
M16x44 leveling foot	80	1	3 842 311 956
M16x90x85 leveling foot	20	1	3 842 311 950
M16x90x145 leveling foot	80	1	3 842 311 951 <i>GoTo</i>

Technical Data

† Except M12x33 leveling foot, which does not swivel.

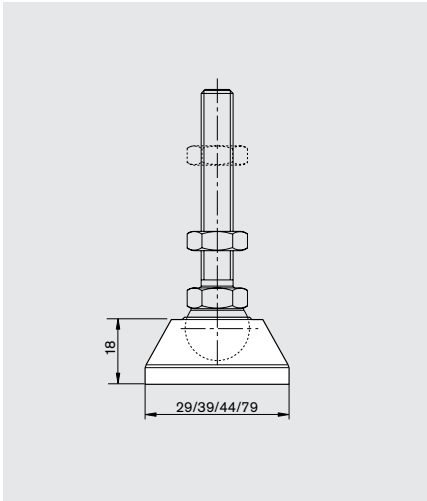
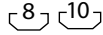
Leveling Foot	Use with profile end tap	F _{max}	Max. Adjust in mm	Swivel
M6x20	M6	N/A	20	Y
M8x30	M8	5,000N	25	Y
M12x30	M12	8,000N	42.5	Y
M12x33	M12	10,000N	20	N
M12x44x85	M12		30	Y
M12x44x160	M12		80	Y
M12x58	M12	20,000N	30	Y
M16x44	M16		80	Y
M16x90x85	M16		20	Y
M16x90x145	M16		80	Y

GoTo boschrexroth-us.com/framing to get these in stock items **FAST** from your local distributor

Section 7: Floor to Frame Elements

Leveling Bases and Spindles

Steel Leveling Base

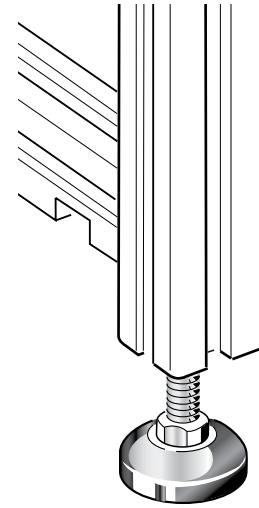


Features:

- Smooths out floor irregularities up to 10°
- Bases and spindles below can be combined in any manner
- Corrosion-resistant*

Material:

- Stainless steel*
- Diecast zinc
- PA

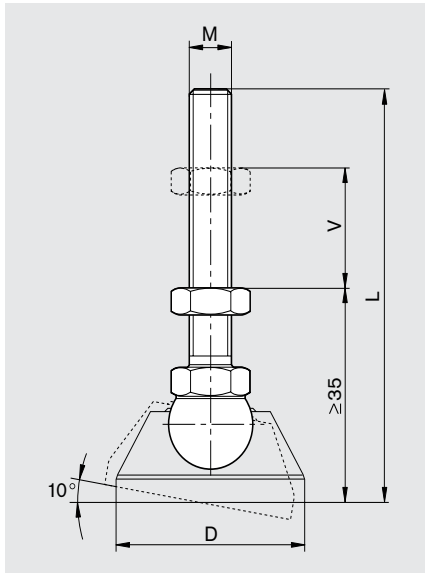


Description	Lot Size*	Part Number
29 Stainless steel base plate	20	3 842 536 694
39 Stainless steel base plate	20	3 842 536 695
44 Stainless steel base plate	20	3 842 536 696
59 Stainless steel base plate	20	3 842 538 673
79 Stainless steel base plate	20	3 842 537 206
29 Diecast zinc base plate	20	3 842 538 674
39 Diecast zinc base plate	20	3 842 538 675
44 Diecast zinc base plate	20	3 842 538 676
59 Diecast zinc base plate	20	3 842 538 677
79 Diecast zinc base plate	20	3 842 538 678
29 PA base plate	20	3 842 538 832
39 PA base plate	20	3 842 538 833
44 PA base plate	20	3 842 538 834
59 PA base plate	20	3 842 538 835
79 PA base plate	20	3 842 538 836

* For smaller quantities, please contact your local distributor.

Section 7: Floor to Frame Elements

Steel Spindle 8 10

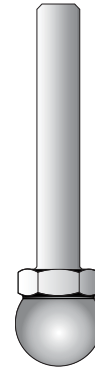


Features:

- Ball end allows base to pivot up to 10°
- Corrosion-resistant

Material:

- Stainless steel (S.S.)
- Galvanized steel (G.S.)



Description	L	V	Lot Size*	Part Number
M8 S.S. spindle	75	20	20	3 842 536 811
M12 S.S. spindle	85	30	20	3 842 536 812
M12 S.S. spindle	145	80	20	3 842 537 223
M12 S.S. spindle	200	80	20	3 842 537 225
M16 S.S. spindle	85	20	20	3 842 537 227
M16 S.S. spindle	145	80	20	3 842 537 229
M16 S.S. spindle	200	80	20	3 842 537 231

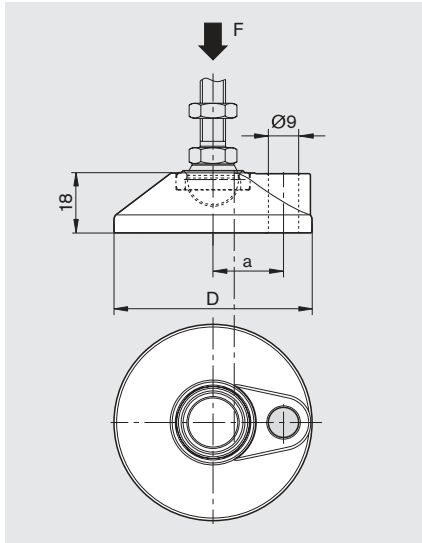
Description	L	V	Lot Size*	Part Number
M8 G.S. spindle	75	20	20	3 842 537 220
M12 G.S. spindle	85	30	20	3 842 537 222
M12 G.S. spindle	145	80	20	3 842 537 224
M12 G.S. spindle	200	80	20	3 842 537 226
M16 G.S. spindle	85	20	20	3 842 537 228
M16 G.S. spindle	145	80	20	3 842 537 230
M16 G.S. spindle	200	80	20	3 842 537 232

* For smaller quantities, please contact your local distributor.

Section 7: Floor to Frame Elements

Base Plates with Screw Hole

Base Plate with Screw Hole

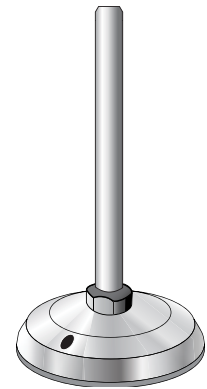


Features:

- Base plates with holes allow for simple mounting to your deck or floor

Material:

- Die cast zinc, black powder coated

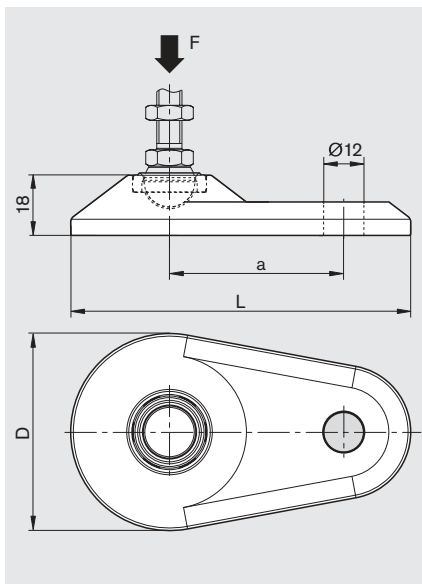


Description	D	a	Lot Size*	Part Number
Base plate with screw hole	59	21	20	3 842 538 932
Base plate with screw hole	79	31	20	3 842 538 934

* For smaller quantities, please contact your local distributor.



Oval Base Plate with Screw Hole

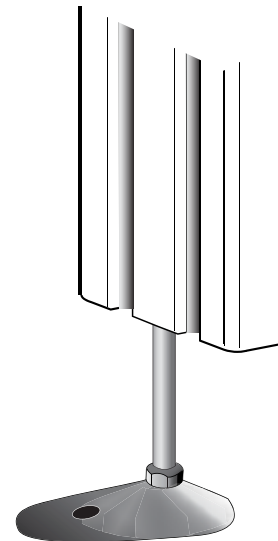


Features:

- Oval base plate has extra aluminum which extends further beyond the plate thereby making the drilling of mounting holes easier.

Material:

- Die cast zinc, black powder coated



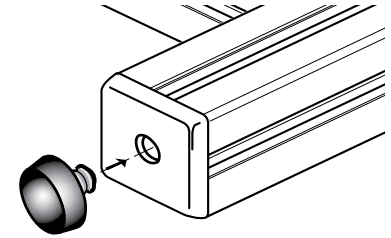
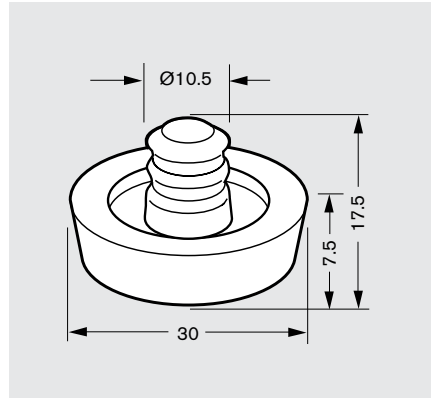
Description	D	L	a	Lot Size*	Part Number
Oval base plate w/screw hole	59	100	52	20	3 842 538 679
Oval base plate w/screw hole	79	130	65	20	3 842 538 680

* For smaller quantities, please contact your local distributor.

Section 7: Floor to Frame Elements

Leveling Feet and Accessories

Floor Guard Foot



Features:

- Used to support frames, tables to protect floors from damage
- Aesthetically pleasing shape makes it suitable for use on office partitions and furniture
- Clips into profiles with 10mm center bores (such as 40-, 45-, 50-, and 60-series)

Material:

- Thermoplastic elastomer (TPE)

Description

Floor guard foot

Lot Size

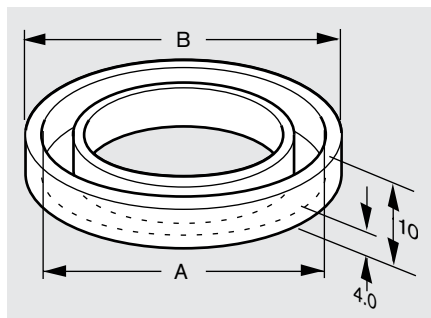
1

Part Number

3 842 514 568

7

Dampening Pads



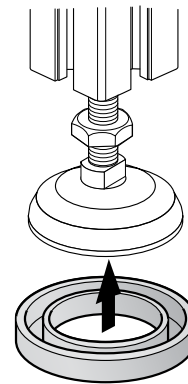
Isolation Pad Size	Dim. (in mm)		Max. Load (in N)	Fits Leveling Feet
	A	B		
30mm	30	39	1600	M8x30
				M12x30
40mm	44	52	2000	M12x44
				M16x44
58mm	58	66	2500	M12x58x85
90mm	90	98	3000	M16x90x145

Features:

- Helps prevent transfer of vibration between machine and floor
- Non-conductive material provides electrical isolation and prevents inadvertent introduction of a circuit ground
- Suitable for ESD applications
- Presses snugly onto leveling foot; will not fall off when machine is lifted

Material:

- Translucent PUR



Description

30mm dampening pad
 44mm dampening pad
 58mm dampening pad
 90mm dampening pad

Lot Size

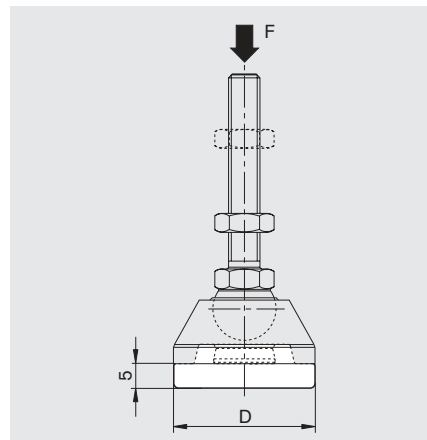
1
1
1
1

Part Number

3 842 529 024
 3 842 521 817
 3 842 522 301
 3 842 522 303



Damping Plate



Features:

- Helps prevent transfer of vibration between machine and floor
- Presses snugly onto leveling foot; will not fall off when machine is lifted

Material:

- Thermoplastic elastomer (TPE-U)

Description

29 Damping plate
 39 Damping plate
 44 Damping plate
 59 Damping plate
 79 Damping plate

Lot Size*

20
20
20
20
20

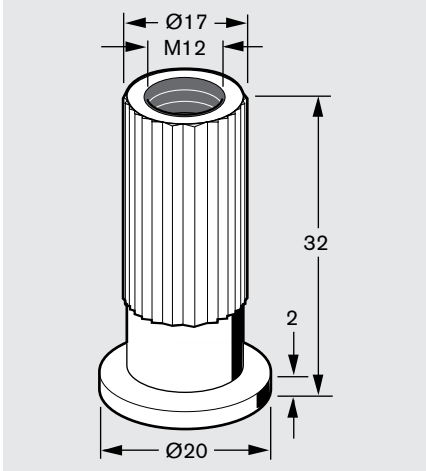
Part Number

3 842 538 555
 3 842 538 556
 3 842 538 557
 3 842 538 558
 3 842 538 559

Section 7: Floor to Frame Elements

Leveling Feet and Accessories

Threaded Sleeve for Leveling Feet ¹⁰



Features:

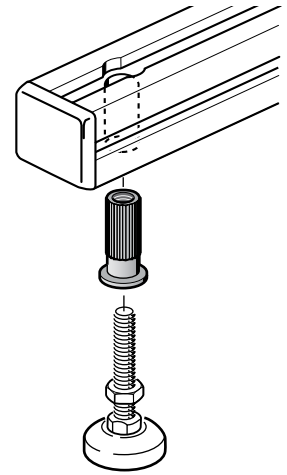
- Press-fit threaded sleeve allows installation of M12 leveling feet to the sides of profiles with 10mm T-slots (40-series or larger)

Machining Required:

- 17mm through-hole

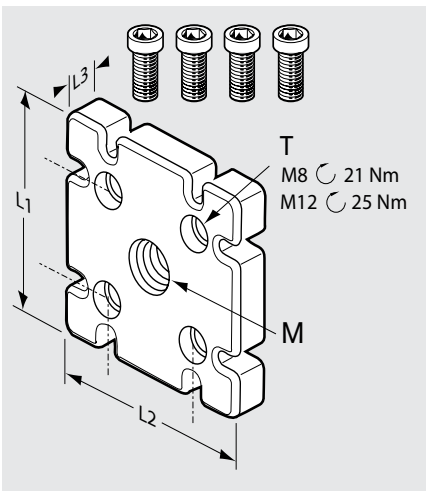
Material:

- Zinc-plated steel



Description	Lot Size	Part Number
Threaded sleeve, M12	1	3 842 504 790

Leveling Foot Plates ¹⁰



Features:

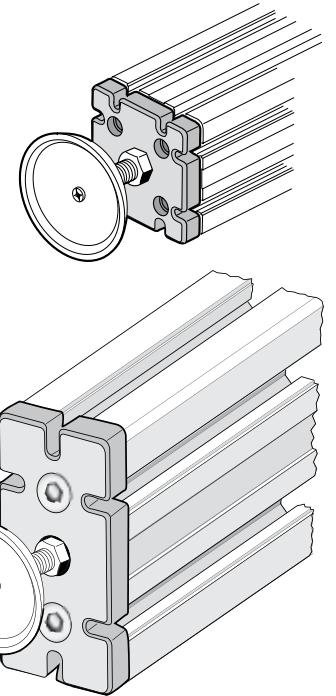
- Allow use of leveling feet with 80x80, 90x90, and 100x100 profiles
- Tapped center hole in plate accommodates shaft of leveling foot; corner holes secure to tapped corner bores of profile
- 60x60 to be used with 60x60 8S (8 mm T-slot) profile
- 80x80 plate allows use of any M12 leveling foot
- 90x90 and 100x100 plates allow use of any M16 leveling foot
- Mounting hardware included

Machining Required:

- Corner bores of profiles tapped M12

Material:

- Plate: die-cast aluminum
- Mounting hardware: zinc-plated steel



Leveling Foot Plate	Dim. (in mm)				
	L1	L2	M	L3	T
30x60	60	30	12	11	8
40x80	80	40	12	15	12
45x90	90	45	16	15	12
60x60	60	60	12	11	8
80x80	80	80	12	15	12
90x90	90	80	16	15	12
100x100	100	100	16	15	12

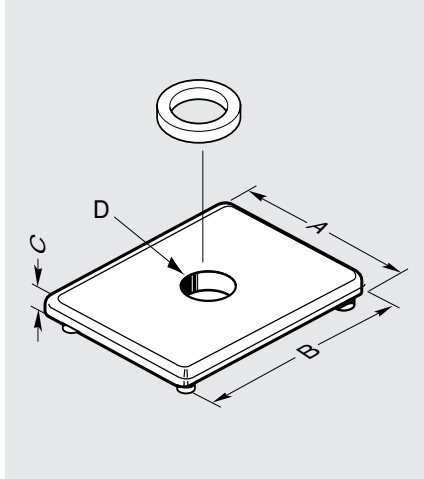
Description	Lot Size	Part Number
80x80 leveling foot plate M12	1	3 842 529 416
90x90 leveling foot plate M12	1	3 842 511 352
100x100 leveling foot plate M12	1	3 842 529 417
30x60 leveling foot plate M8	1	3 842 536 560
60x60 leveling foot plate M8	1	3 842 536 566
40x80 leveling foot plate M12	1	3 842 536 562
45x90 leveling foot plate M16	1	3 842 536 564

Section 7: Floor to Frame Elements

Leveling Feet and Accessories



End Caps with Holes and Bearing Ring 8 10 **GoTo**

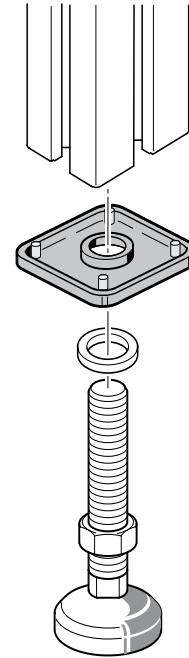


Features:

- Bearing ring prevents deformation of end cap when heavy load is present on casters or leveling feet
- Creates neat, finished appearance
- Clip easily onto end of profiles
- Center hole provides clear through-hole for leveling foot

Material:

- End cap: black polyamide 6
- Bearing ring: stainless steel



7

End Cap Size	Dimension (in mm)			
	A	B	C	D
30x30	30	30	3	8
30x45	30	45	3	8
40x40	40	40	4	12
40x80	40	80	4	12
45x45	45	45	4	12
45x60	45	60	4	12
45x90	45	90	4	12
50x50	50	50	4	12
60x60	60	60	4	12
60x90	60	90	4	12
90x90H	90	90	4	12

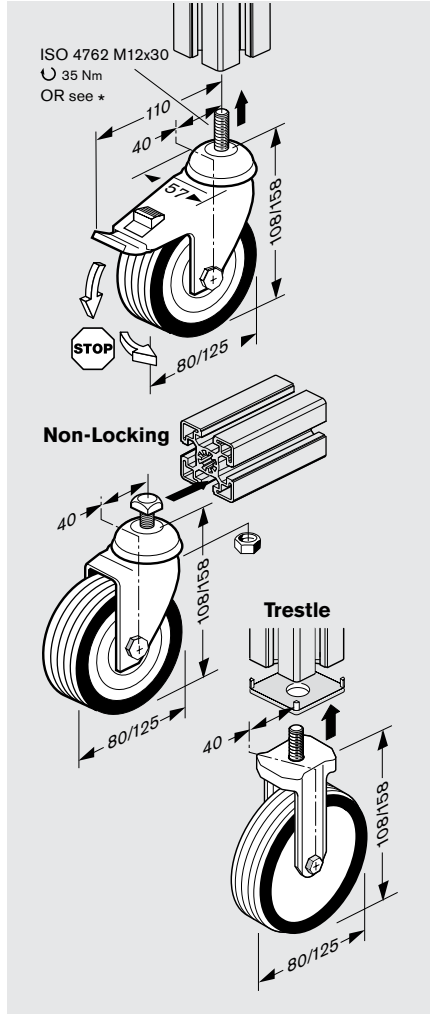
Description	Lot Size*	Part Number
30x30 end cap with hole	1	3 842 503 143
30x45 end cap with hole	1	3 842 511 419
40x40 end cap with hole	1	3 842 529 045
40x80 end cap with hole	1	3 842 529 046
45x45 end cap with hole	1	3 842 523 442 GoTo
45x60 end cap with hole	1	3 842 191 094
45x90 end cap with hole	1	3 842 511 855
50x50 end cap with hole	1	3 842 529 047
60x60 end cap with hole	1	3 842 511 876
60x90 end cap with hole	1	3 842 514 663
90x90H end cap with hole	1	3 842 514 664
Bearing Ring	100	3 842 536 321

* For smaller quantities, please contact your local distributor.

Section 7: Floor to Frame Elements

Casters

Heavy-Duty Casters

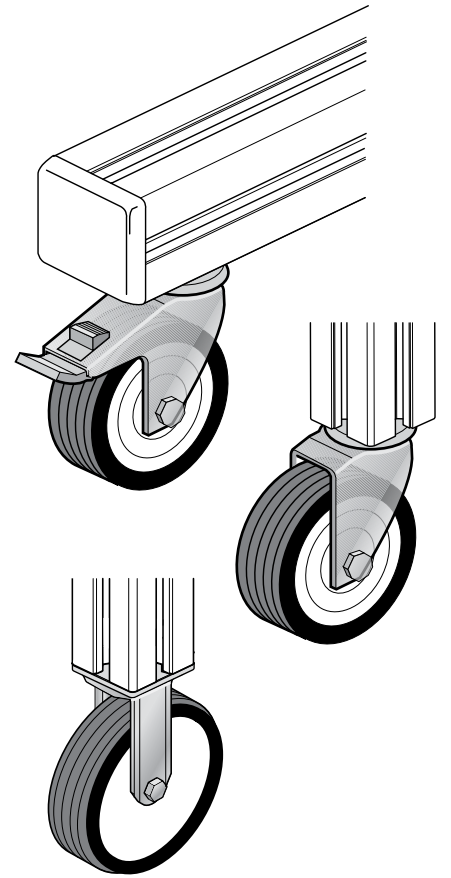


Features:











- Suitable for tool carts and small machines that must be transported from one area to another
- Available in locking or non-locking versions
- Standard width 32mm
- Four types are available:
 - 1** Conductive for ESD applications
 - 2** Chemical-resistant, reinforced wheels (resistant to petroleum and alcohol based solvents)
 - 3** Floor-protective to prevent marring of floor surfaces
 - 4** Solid core abrasion-resistant, which are suitable for ESD and clean room applications
- Types **1**, **3** and **4** are available with 80mm or 125mm diameter wheels
- Type **2** is available with 125mm diameter wheels only

Material:

- Types **1** TPE with thread pick-up protection
- Type **2**: polyamide reinforced
- Type **3**: TPE on polyamide rim
- Type **4**: TPE or solid rubber



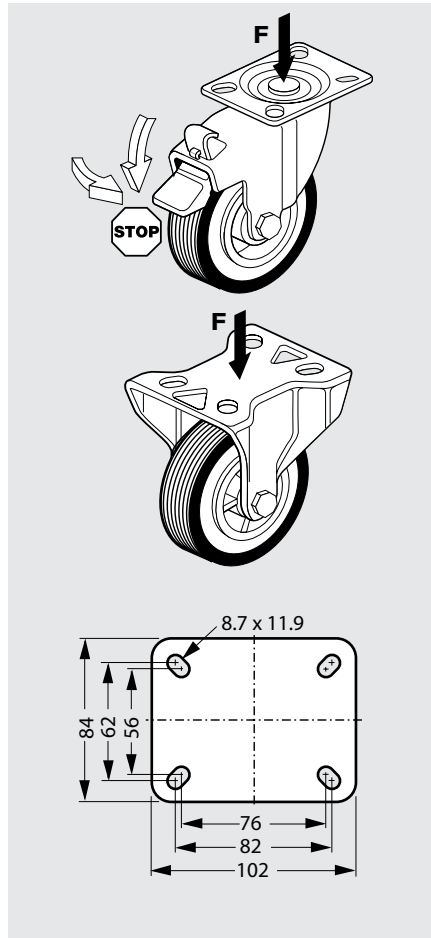
Caster Type	Max. Load in N (lbs.)	
	80mm wheel	125mm wheel
1	900 (202)	1100 (247)
2	N/A	1100 (247)
3	900 (202)	1100 (247)
4	900 (202)	1100 (247)

Description	Lot Size	Part Number
1 Locking heavy-duty caster, 80mm, conductive 	1	3 842 541 230
1 Non-locking heavy-duty caster, 80mm, conductive 	1	3 842 541 238
1 Locking heavy-duty caster, 125mm, conductive 	1	3 842 541 232
1 Non-locking heavy-duty caster, 125mm, conductive 	1	3 842 541 240
2 Locking heavy-duty caster, 125mm, chemical-resistant	1	3 842 515 367
2 Non-locking heavy-duty caster, 125mm, chemical-resistant	1	3 842 515 366
3 Locking heavy-duty caster, 80mm, floor-protective	1	3 842 541 226
3 Non-locking heavy-duty caster, 80mm, floor-protective	1	3 842 541 234
3 Locking heavy-duty caster, 125mm, floor-protective	1	3 842 541 228
3 Non-locking heavy-duty caster, 125mm, floor-protective	1	3 842 541 236
4 Locking heavy-duty caster, 125mm, solid core abrasion resistant  	1	3 842 524 499
4 Non-locking heavy-duty caster, 125mm, solid core abrasion resistant  	1	3 842 524 500
4 Heavy-duty Trestle caster, 80mm, solid core abrasion resistant 	1	3 842 541 242
4 Heavy-duty Trestle caster, 125mm, solid core abrasion resistant 	1	3 842 541 244
* M12 Hex Screw (alternate caster connector)	1	2 911 061 911

Section 7: Floor to Frame Elements

Casters

Plate-Mounted Casters ¹⁰

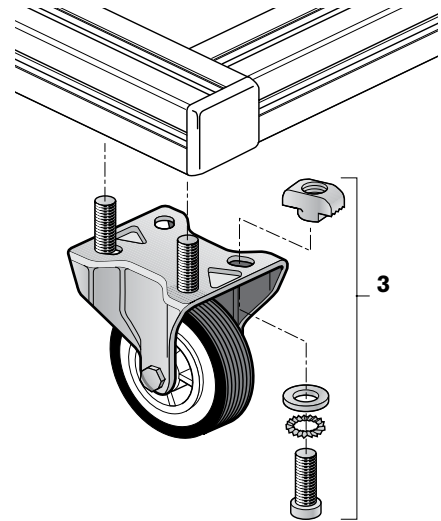


Features:

- Used for rolling heavy loads on shop floors
- Available in two sizes: with 100mm diameter wheel, or with 125mm diameter wheel
- Two types are available:
 - 1 Swiveling, with lock
 - 2 Fixed
- Mounting hardware (3) sold separately

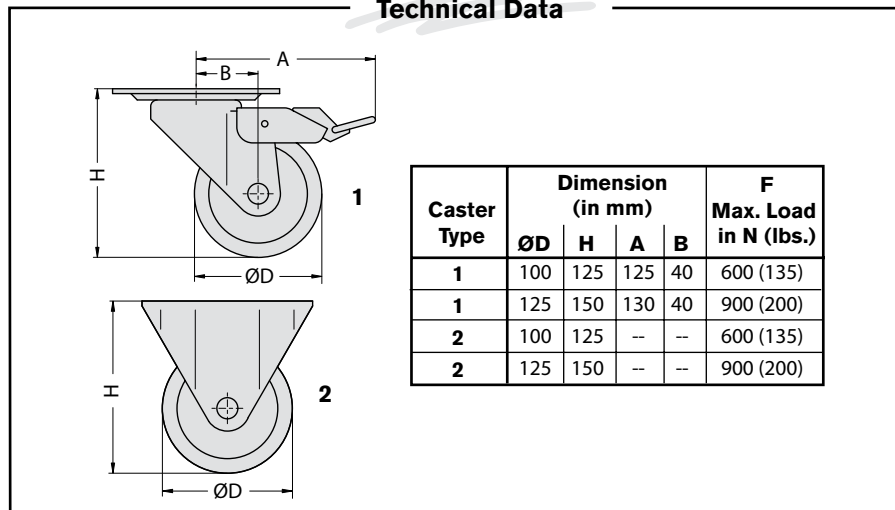
Material:

- Wheel: black plastic
- Plate housing: galvanized steel



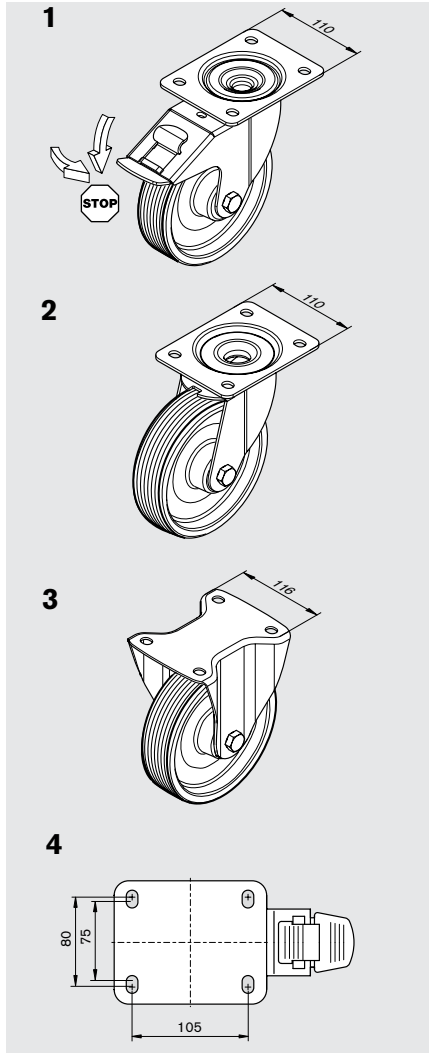
Description	Lot Size	Part Number
1 Plate-mounted caster, swivel with lock, 100mm wheel	1	3 842 259 790
1 Plate-mounted caster, swivel with lock, 125mm wheel	1	3 842 259 791
2 Plate-mounted caster, fixed, 100mm wheel	1	3 842 259 792
2 Plate-mounted caster, fixed, 125mm wheel	1	3 842 259 793
3 Mounting hardware, three sets	1	3 842 259 794

Technical Data



Section 7: Floor to Frame Elements

Heavy-Duty Casters with mounting plate 10

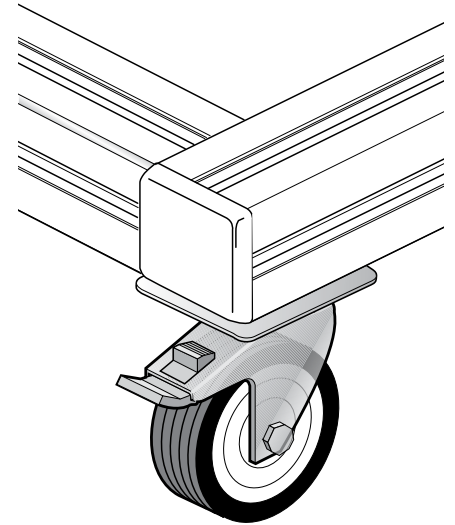


Features:

- Mounting flange makes this caster particularly suitable for the shop floor
- Maximum payload for each caster is 3000N (675 lbs)
- Ideal for movable machine frames or oversized workstations
- The mounting plate allows the casters to be fitted to a wide variety of aluminum profiles
- Caster height 195mm
- Three types are available:
 - 1 Swiveling, with lock
 - 2 Swiveling, without lock
 - 3 Fixed

Material:

- Wheel: black plastic
- Mounting plate: galvanized steel



Description	Lot Size	Part Number
1 Heavy-duty caster, swivel with lock, 160mm wheel	1	3 842 536 736
2 Heavy-duty caster, swivel without lock, 160mm wheel	1	3 842 536 737
3 Heavy-duty caster, fixed caster, 160mm wheel	1	3 842 536 738
4 Mounting Plate	1	3 842 536 701

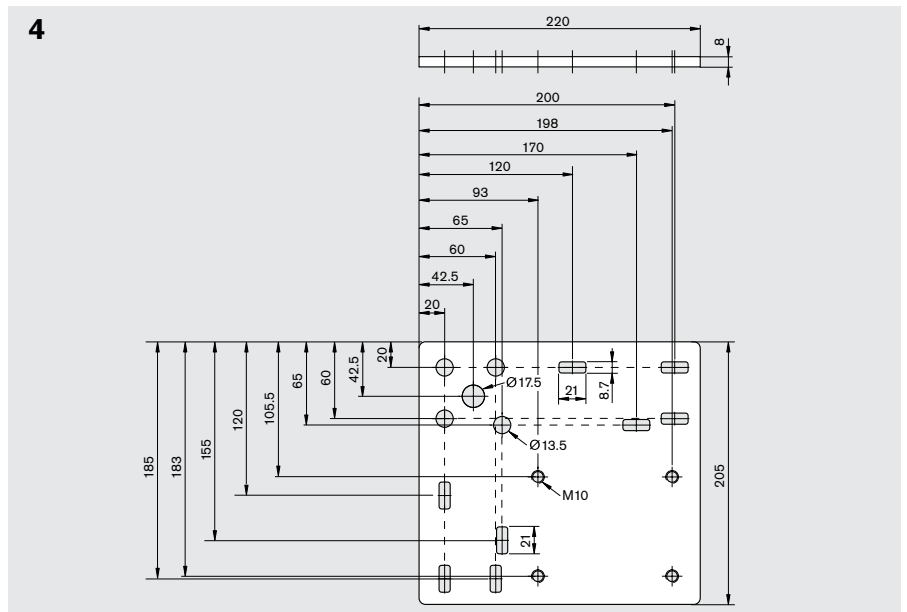
Mounting Plate for Heavy-Duty Casters

Features:

- The screw on plate makes attachment of heavy-duty caster easy

Material:

- Galvanized steel

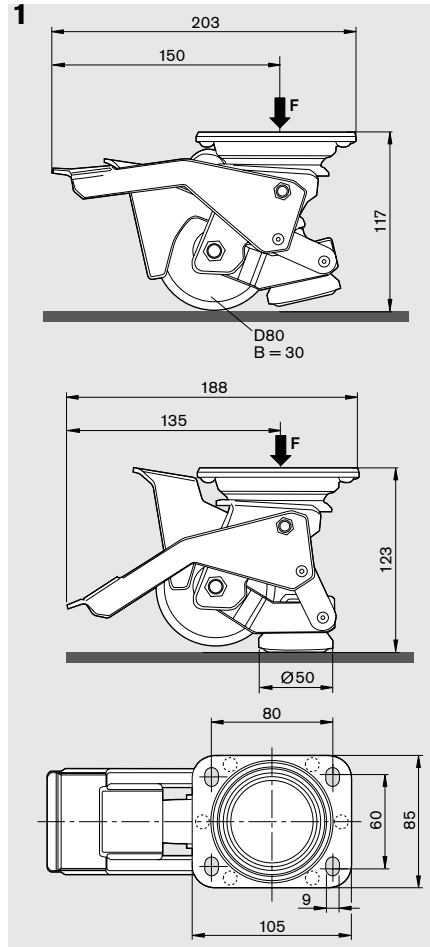


Section 7: Floor to Frame Elements

Lifting Wheel



Caster Lifting Wheel 10

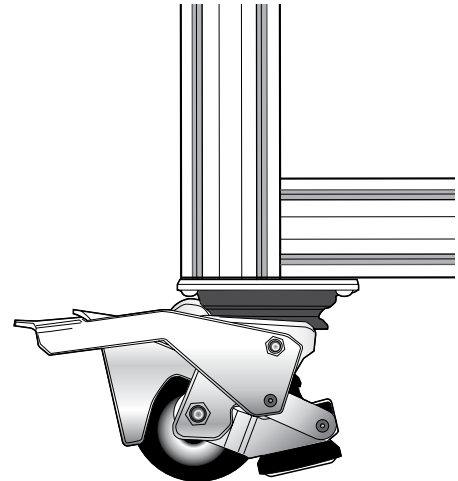


Features:

- Integrated leveling foot
- Wheel easily turns into a stable base by engaging the stop lever
- Caster allows equipment to be moved to where it's needed
- 2000N (449 LBS)

Material:

- Wheel: black plastic
- Base plate: PA, black with rubber insert



Description	Lot Size	Part Number
1 Caster lifting wheel	1	3 842 536 578
2 Mounting plate for Caster Lifting Wheel	1	3 842 536 902

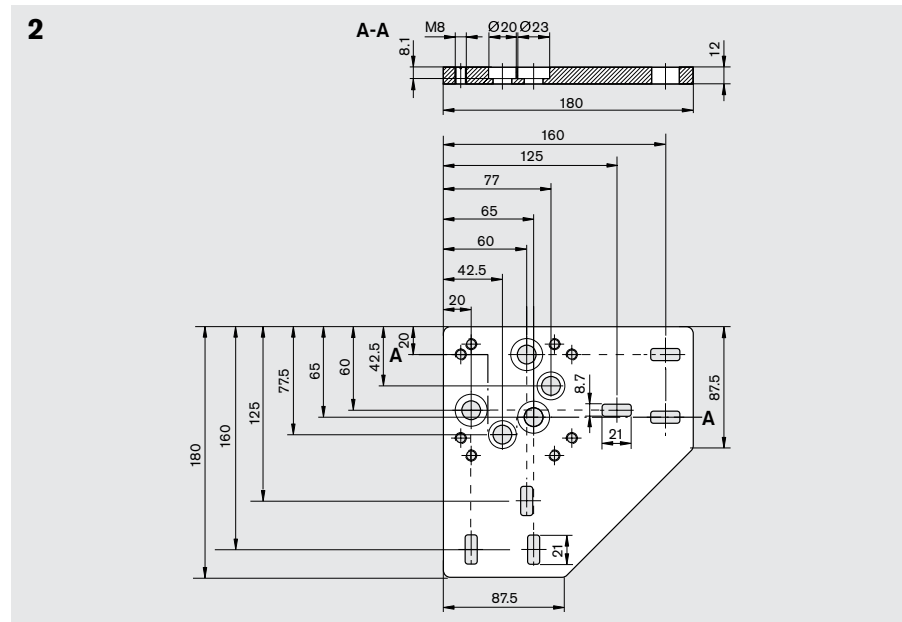
Mounting Plate for Caster Lifting Wheel

Features:

- The mounting plate makes attachment of the caster lifting wheel easy

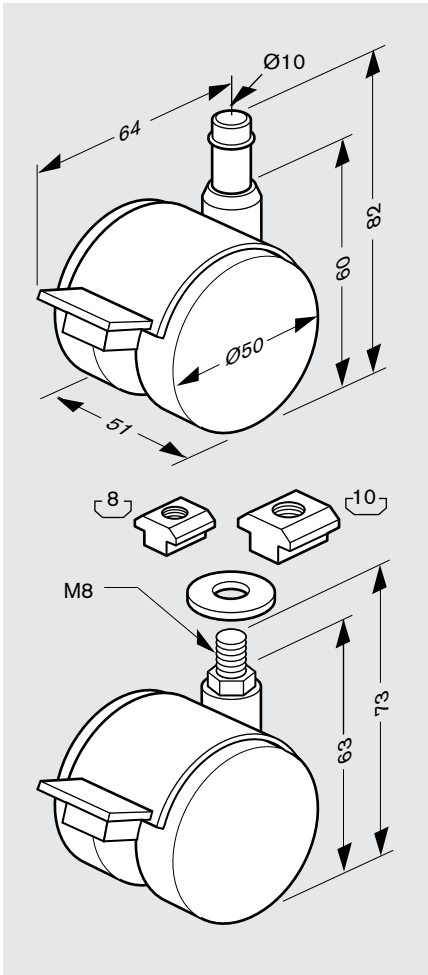
Material:

- Galvanized steel



Section 7: Floor to Frame Elements

Double-Wheel Casters  

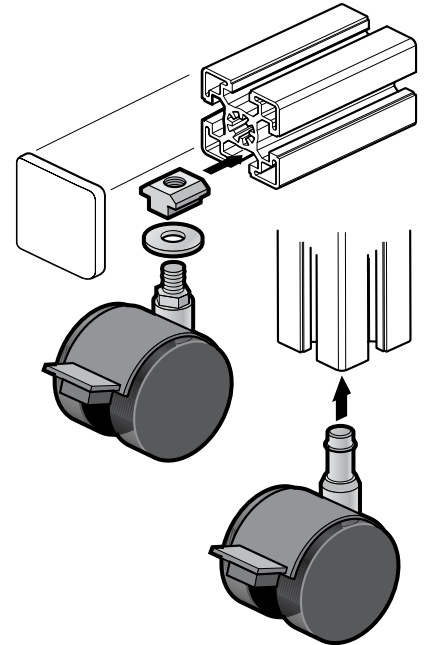


Features:

- Designed for use on smooth or carpeted floors
- Available in standard or ESD version
- Oil-resistant
- Lockable
- Capable of supporting 400N (90 lbs.) per caster
- Two types are available:
 - 1 With 10mm stem for end-mounting
 - 2 With M8 threaded stem and T-blocks for mounting to 8mm or 10mm T-slots (includes 8mm and 10mm T-blocks)
- Sold in sets of 4

Material:

- Wheel: black polyamide
- Running surface: polyurethane



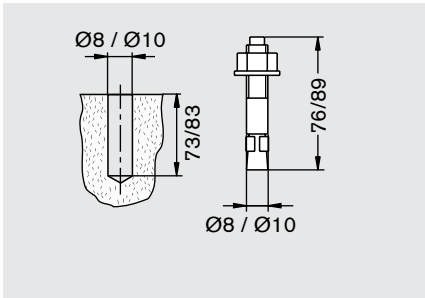
Description	Lot Size*	Part Number
1 Double-wheel caster with 10mm stem	4	3 842 515 457
1 Double-wheel caster with 10mm stem, conductive	4	3 842 515 459
2 Double-wheel caster with M8 threaded stem and T-blocks	4	3 842 535 669
2 Double-wheel caster with M8 threaded stem and T-blocks, conductive	4	3 842 535 670

* For smaller quantities, please contact your local distributor.

Section 7: Floor to Frame Elements

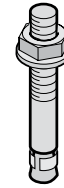
Foundation and Bracing Components

Anchor Bolts



Features:

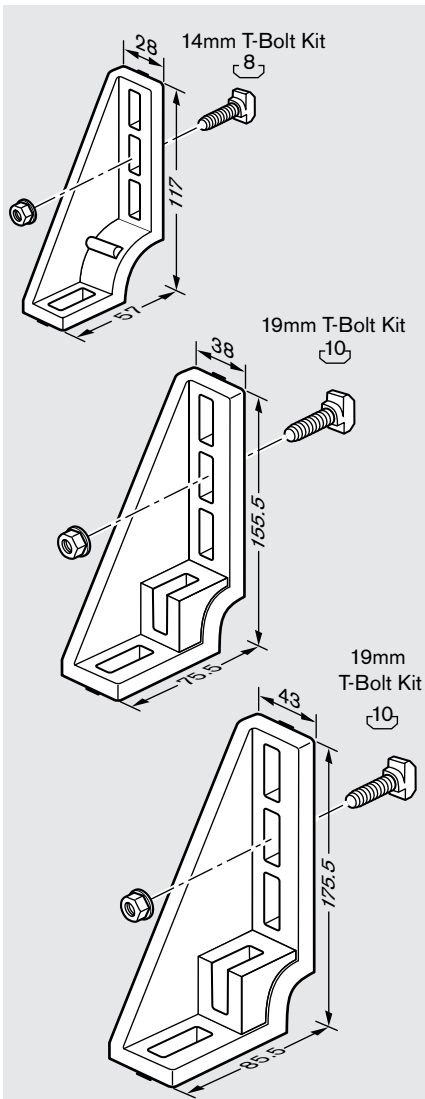
- Used with the foundation and bracing components on the following pages to secure floor elements to concrete or stone floors



Description	Lot Size	Part Number
8mm anchor bolt, L=76mm	1	3 842 526 560
10mm anchor bolt, L=89mm	1	3 842 526 561

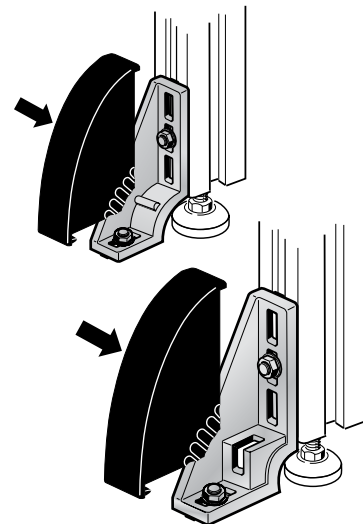
7

Die-Cast Foundation Brackets



Features:

- Used to fasten structural profiles to floors, decks, or shipping skids
- Does not interfere with leveling feet
- Available in three sizes: 30x120, 40x160, and 45x180 (for complete dimensional information, see Section 3: Profile Connectors)
- Optional cover caps provide clean, finished appearance
- Available with or without mounting hardware
- Anchor bolt must be ordered separately



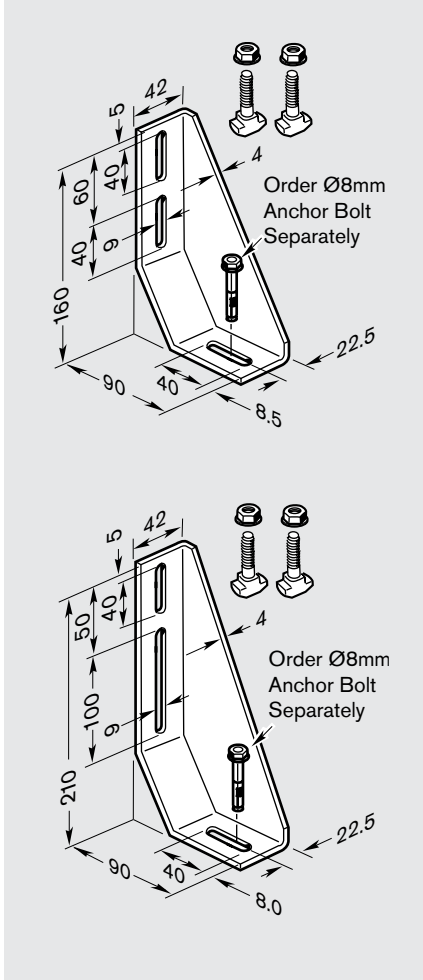
Material:

- Bracket: die-cast aluminum
- Cover cap: black polyamide 6

Description	Lot Size	Part Number
30x120 die-cast foundation bracket only	1	3 842 523 587
30x120 die-cast foundation bracket w/fasteners	1	8 981 021 023
30x120 cover cap only	1	3 842 523 589
40x160 die-cast foundation bracket only	1	3 842 529 006
40x160 die-cast foundation bracket w/fasteners	1	8 981 021 348
40x160 cover cap only	1	3 842 529 009
45x180 die-cast foundation bracket only	1	3 842 523 583
45x180 die-cast foundation bracket w/fasteners	1	3 842 527 535
45x180 cover cap only	1	3 842 523 585
8mm anchor bolt, L=76mm	1	3 842 526 560

Section 7: Floor to Frame Elements

Foundation Brackets 

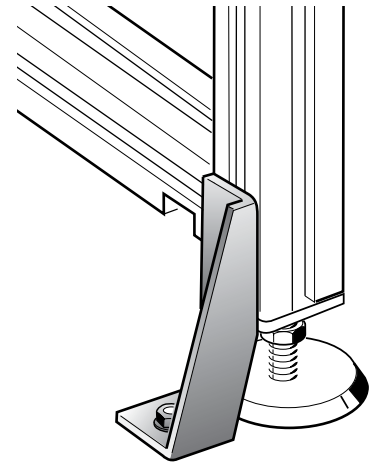


Features:

- Used to fasten structural profiles to floors, decks, or shipping skids
- Does not interfere with leveling feet
- Available in 160mm or 210mm lengths
- Available with mounting hardware (two 14mm T-bolt fastening kits), or as foundation bracket only
- Anchor bolt must be ordered separately

Material:

- Zinc-plated sheet steel



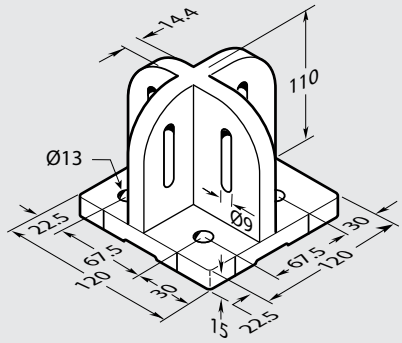
Description	Lot Size	Part Number
160mm foundation bracket and mounting hardware	1	3 842 338 979
210mm foundation bracket and mounting hardware	1	8 981 003 224
160mm foundation bracket only	1	3 842 146 815 <i>GoTo</i>
210mm foundation bracket only	1	3 842 146 848 <i>GoTo</i>
8mm anchor bolt, L=76mm	1	3 842 526 560

Section 7: Floor to Frame Elements

Foundation Components

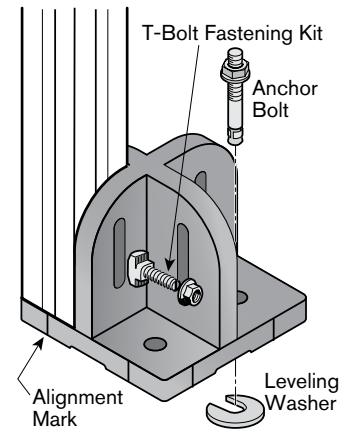
Footplate 120x120x110 ¹⁰ *GoTo*

**Footplate
120x120x110**

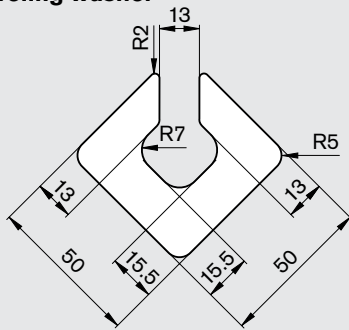


Features:

- Used to install 45x45, 45x60, and 60x60 profiles vertically for guarding applications
- Profile edges fit flush with edges of footplate to create a clean edge along aisles and walkways surrounding the guarding enclosure
- Alignment marks on the sides of the footplate align with the profile center line as an aid in positioning
- Heavy-duty die-cast aluminum construction
- Order T-bolt fastening kits, anchor bolt, and leveling washers separately



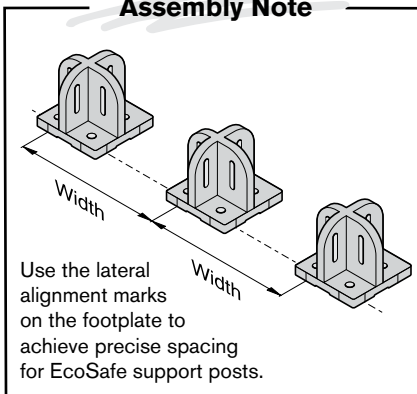
Leveling washer



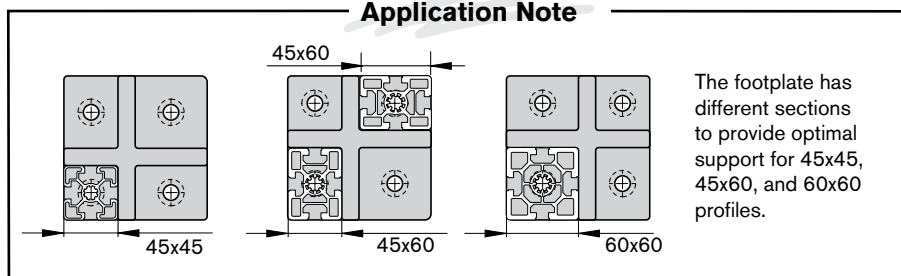
Description	Lot Size*	Part Number
120x120x110 footplate	1	3 842 527 553 <i>GoTo</i>
24mm T-bolt fastening kit	1	8 981 021 344
8mm anchor bolt, L=76mm	1	3 842 526 560
Leveling washers, 1mm thick	100	3 842 528 189
Leveling washers, 4mm thick	100	3 842 528 191

* For smaller quantities, please contact your local distributor.

Assembly Note



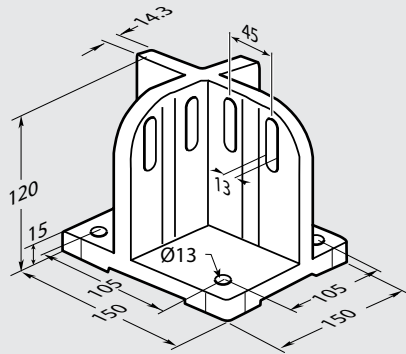
Application Note



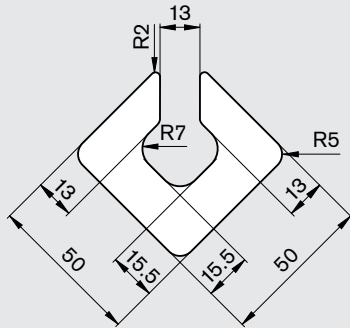
Section 7: Floor to Frame Elements

Footplate 150x150x120 

**Footplate
150x150x120**

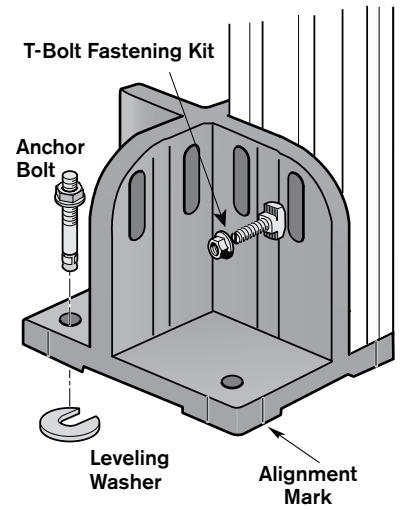


Leveling washer



Features:

- Used to install 45x45, 45x90, and 90x90 profiles vertically for guarding applications
- Suitable for applications where added strength of 90x90 profile is needed
- Profile edges fit flush with edges of footplate to create a clean edge along aisles and walkways surrounding the guarding enclosure
- Alignment marks on the sides of the footplate align with the profile center line as an aid in positioning
- Heavy-duty die-cast aluminum construction
- Order T-bolt fastening kits, anchor bolt, and leveling washers separately

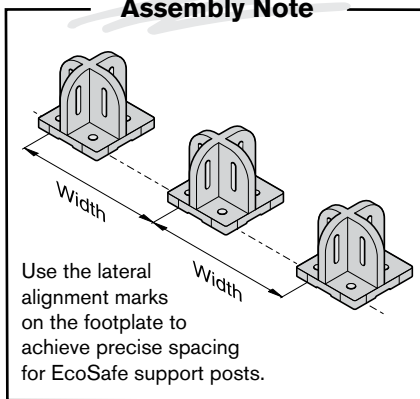


Description

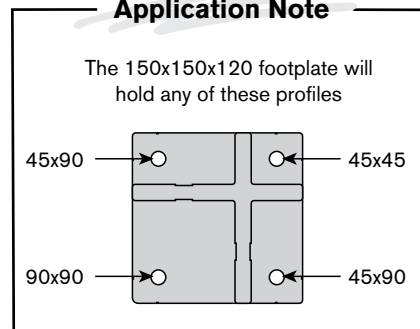
Description	Lot Size*	Part Number
150x150x120 footplate	1	3 842 524 469
24mm T-bolt fastening kit	1	8 981 021 344
10mm anchor bolt, L=89mm	1	3 842 526 561
Leveling washers, 1mm thick	100	3 842 528 189
Leveling washers, 4mm thick	100	3 842 528 191

* For smaller quantities, please contact your local distributor.

Assembly Note



Application Note



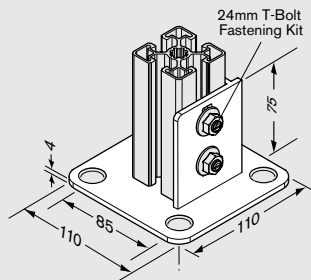
Section 7: Floor to Frame Elements

Foundation Components

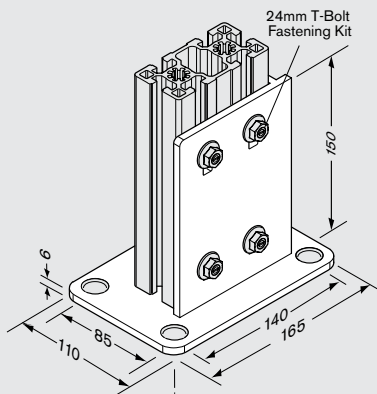


Steel Base Plates ¹⁰

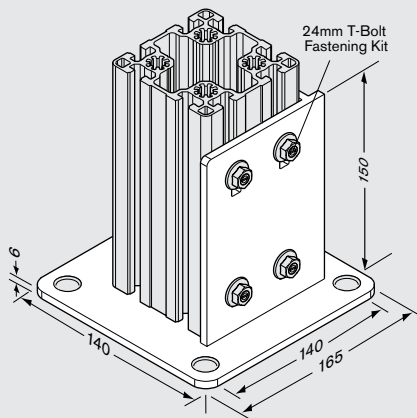
Steel Base Plate 45x45



Steel Base Plate 45x90



Steel Base Plate 90x90

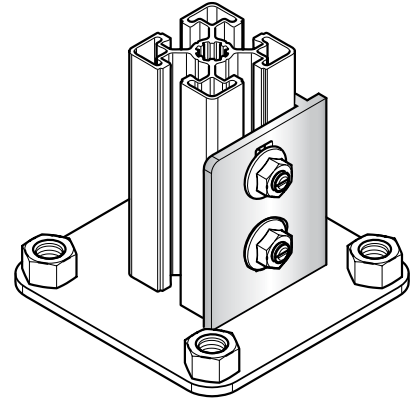


Features:

- Used for constructing supports for separating and protective walls.
- Easy to install
- Order T-bolt fastening kits, anchor bolt and leveling washers separately

Material:

- Zinc-plated sheet steel



Description

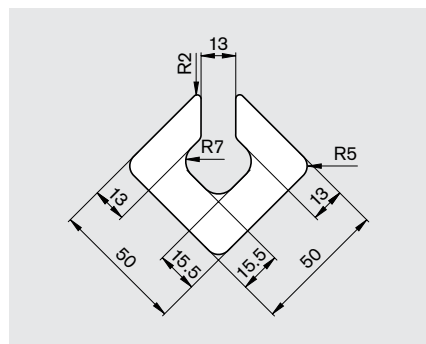
Lot Size*

Part Number

Steel Base Plate 45x45	1	3 842 536 581
Steel Base Plate 45x90	1	3 842 536 207
Steel Base Plate 90x90	1	3 842 536 746
24mm T-bolt fastening kit	1	8 981 021 344
10mm anchor bolt, L=89mm	1	3 842 526 561
Leveling washers, 1mm thick	100	3 842 528 189
Leveling washers, 4mm thick	100	3 842 528 191

* For smaller quantities, please contact your local distributor.

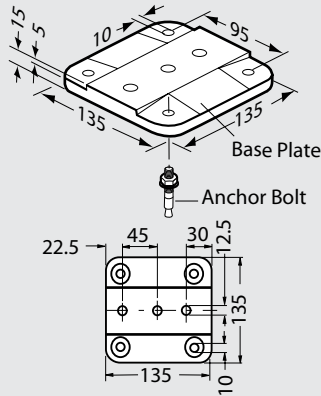
Leveling Washer



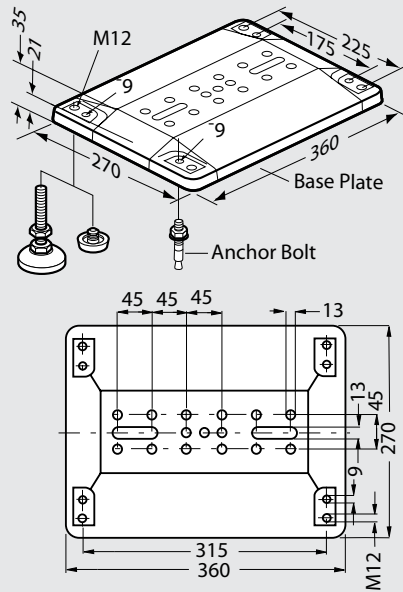
Section 7: Floor to Frame Elements

Base Plates 

135x135 Base Plate



270x360 Base Plate

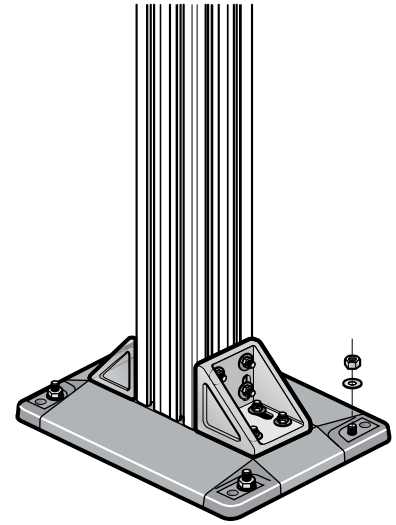


Features:

- Used to provide a stable base for profiles; can be secured to floor with anchor bolts
- 135x135 version has hole spacing ideal for 45x45, 45x60, 45x90, and 60x60 series profiles
- 270x360 version has hole spacing ideal for 45x90, 45x180, 90x90, and 90x180 series profiles
- 270x360 version also features four M12 tapped holes for installing leveling feet or floor guard feet
- Order anchor bolts separately

Material:

- 135x135 base plate: die-cast aluminum
- 270x360 base plate: gray cast iron

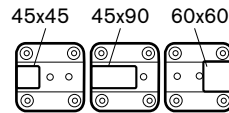


Description

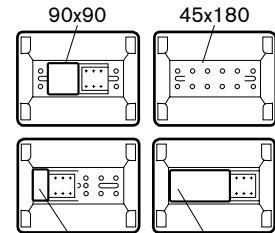
Description	Lot Size	Part Number
135x135 base plate	1	3 842 516 175
270x360 base plate	1	3 842 514 567
8mm anchor bolt, L=76mm	1	3 842 526 560

Application Note

Mounting Examples

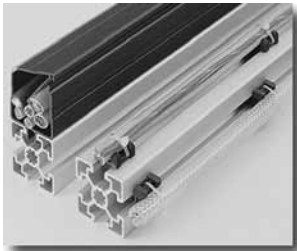


135x135 Base Plate



270x360 Base Plate

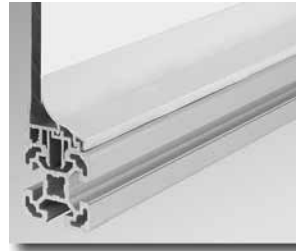
Rexroth Does More



Cable Conduit - Section 12



Pneumatic Ports - Section 8



Panel Support Inserts - Section 6



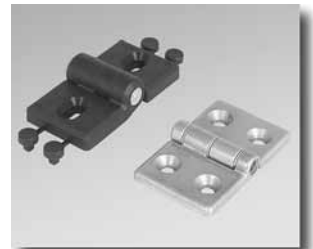
Drilling Jigs - Section 15

Not only does Rexroth offer the most extensive line-up of profiles, connectors, and other structural elements; Rexroth offers a full range of accessories, tools, and more. The photos on this page are just a small sampling of all the options available.

- End caps and cover strips to give your structure a finished look;
- Parts and accessories you need to create complete lean workcells;
- Cable conduits and pneumatic ports to help get electrical and pneumatic power where you need it,
- And much, much more!



Leveling Feet and Casters - Section 7



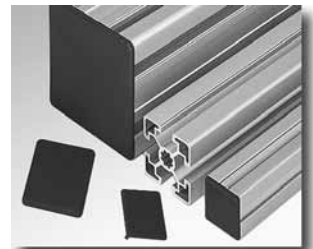
Hinges - Section 5



Door Components - Section 5



Workstations and Workplace Accessories - Section 11



End Caps - Section 9



Slider Stops - Section 5

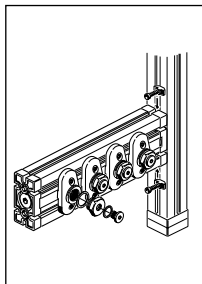
Section 8: Air Supply Elements

Overview

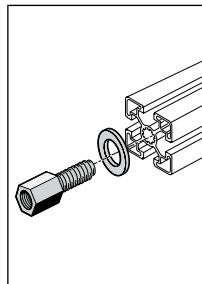
Air supply elements convert certain profiles into compressed air bars. Convenient and flexible pneumatic connections can then be placed anywhere along the compressed air bars and provide easy access to tools.

Elements can be purchased completely assembled or as separate components. The advantages of purchasing separate components are:

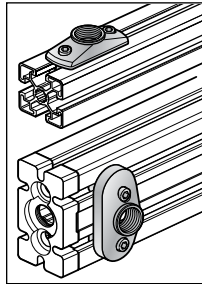
1. Allows custom lengths
2. Can have multiple ports in various locations along the profile



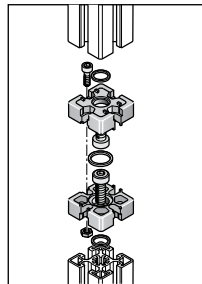
Pre-Assembled Air Bar
8-1



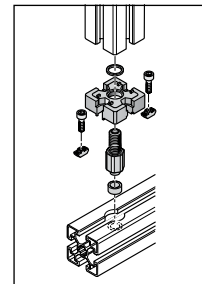
Pneumatic Fitting M12-to-G"
8-1



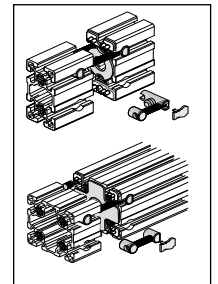
G" & G^{3/8}" Pneumatic Port Kits
8-2



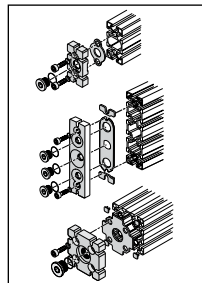
45mm Pneumatic End-to-End Kit
8-3



45mm Pneumatic T-Junction Kit
8-3



Air Gaskets
8-4

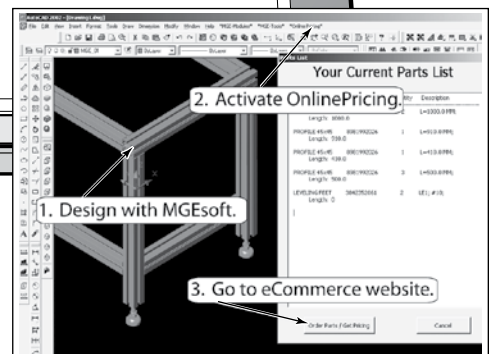


Multi-Port End Seal Kits
8-5

Design Engineering Tip

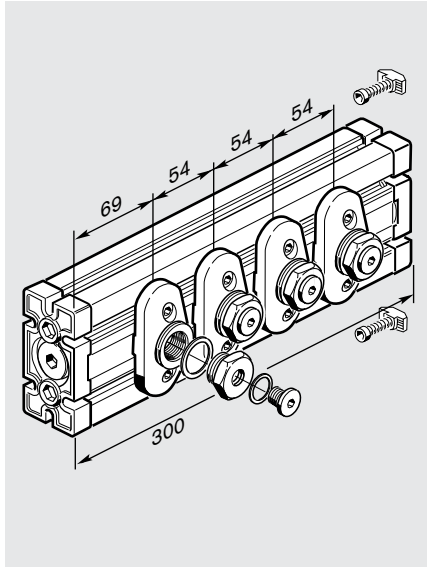
Three Steps from Design to Order

1. Use MGEsoft to design, add accessories, and automatically generate an accurate Parts List.
2. Activate Online Pricing to format your current drawing for import into the eCommerce website.
3. One click takes you to the Rexroth eCommerce shopping cart where you'll see prices. Print your price list or just proceed to the "Secure Checkout" to complete the order and send it to your distributor.

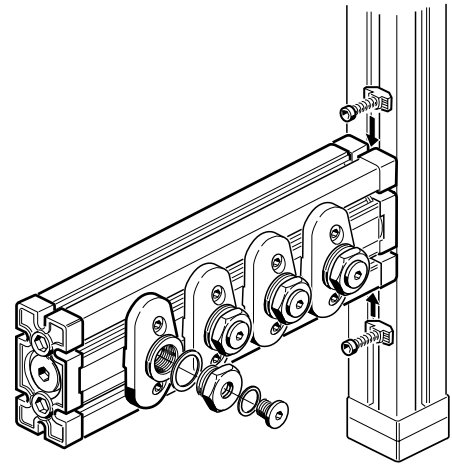


Section 8: Air Supply Elements

Air Supply Elements

Pre-Assembled Air Bar **Features:**

- Pre-assembled air bar has four evenly spaced pneumatic connections
- Fastens easily to standard profiles with 10mm T-slots
- Mounts vertically or horizontally, ideal for workstations
- Can handle up to 8 bar (≈ 120 psi)
- Constructed with 45x90H profile, 300mm long
- Air connection ports are G $1/2''$; includes G $1/2''$ to G $1/4''$ reducing nipples, as well as screw plugs for unused ports
- Additional/replacement reducing nipples and screw plugs available below
- Connectors for plastic air tube must be purchased separately



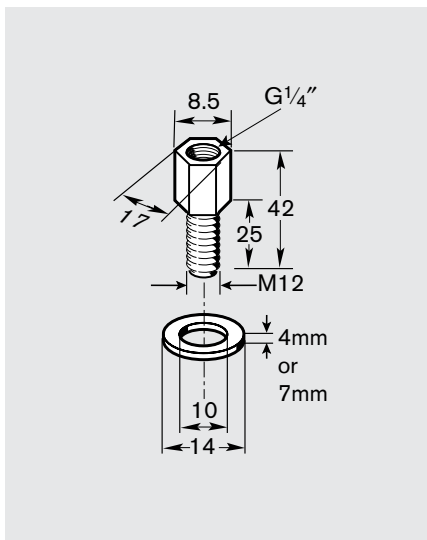
- Mounting hardware included

Material:

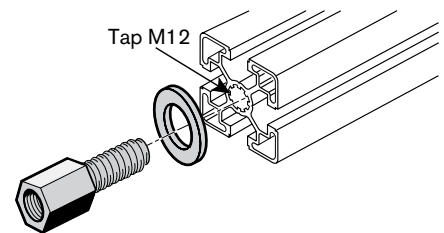
- End plates: die-cast aluminum
- Gaskets: PUR
- Pneumatic ports: die-cast zinc
- Mounting hardware: zinc-plated steel

Description**Lot Size*****Part Number**

Pre-assembled air bar	1	3 842 352 088
Reducing nipple G $1/2''$ to G $1/4''$ and seal	5	1 823 391 300
G $1/4''$ plug and seal	25	1 823 462 029

Pneumatic Fitting M12-to-G $1/4''$ **Features:**

- Allows use of center bore as a duct for compressed air up to 8 bar (≈ 120 psi)
- Works with any profile that can be tapped M12
- Can also be used to replace M12 screws on multi-port end seal kits to create additional air ports
- Two types of seals available: 4mm thick for H-series profiles, and 7mm thick for standard profiles

**Material:**

- Fitting: zinc-plated steel
- Seals: NBR

Description**Lot Size *****Part Number**

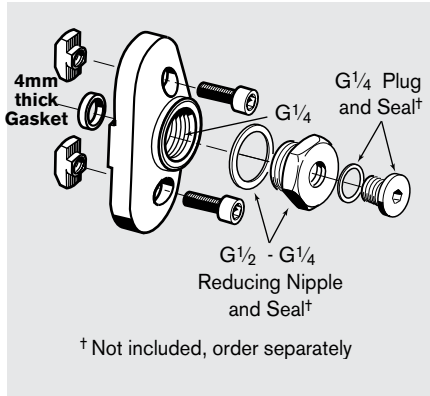
Pneumatic fitting M12-to-G $1/4''$	10	3 842 535 719
4mm thick seal for H-series profiles	10	3 842 503 242
7mm thick seal for standard profiles	10	3 842 523 102

* For smaller quantities, please contact your local distributor.

Section 8: Air Supply Elements

Air Supply Elements

Pneumatic Port Kit G^{1/2}" ¹⁰

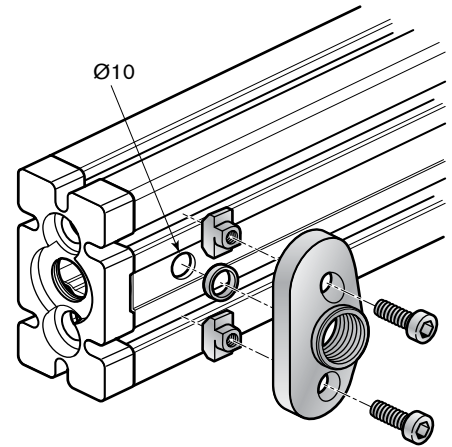


Features:

- Allows installation of a G^{1/2}" pneumatic port for compressed air tools on 45x90H, 45x180H, 90x90, and 90x180 profiles
- Can be mounted anywhere along length of profile
- Can be used with compressed air up to 8 bar (≅120 psi)
- Requires drilling a 10mm hole into center channel of profile
- Includes port, gasket, and mounting hardware
- May be used with G^{1/2}" to G^{1/4}" reducing nipples, as well as screw plugs for unused ports (order separately below)

Machining Required:

- 10mm hole (as shown above)



Material:

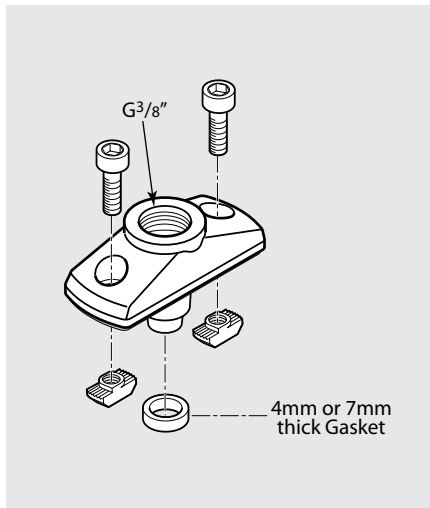
- Port: die-cast zinc
- Hardware: zinc-plated steel

Description

Description	Lot Size*	Part Number
Pneumatic port kit G ^{1/2} "	1	3 842 352 085
Reducing nipple G ^{1/2} " to G ^{1/4} " and seal	1	1 823 391 300
G ^{1/4} " plug and seal	1	1 823 462 029
Replacement Gasket 4mm thick	10	3 842 503 242

* For smaller quantities, please contact your local distributor.

Pneumatic Port Kit G^{3/8}" ¹⁰



Features:

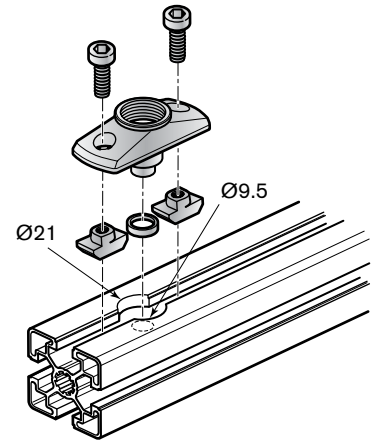
- Allows installation of a G^{3/8}" pneumatic port along the center channel of most standard profiles with 10mm T-slots
- Can be used with compressed air up to 8 bar (≅120 psi)
- Can be mounted anywhere along length of profile
- Includes port, gasket, and mounting hardware

Machining Required:

- 9.5mm hole with 21mm counterbore

Material:

- Port: die-cast zinc
- Hardware: zinc-plated steel



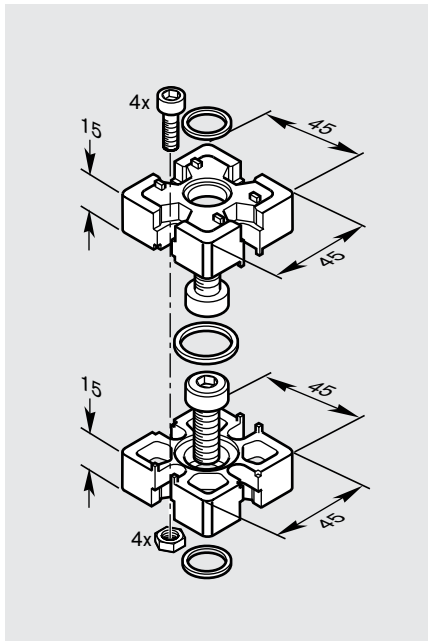
Description

Description	Lot Size*	Part Number
Pneumatic port kit G ^{3/8} "	1	3 842 523 092
Replacement Gasket 4mm thick	10	3 842 503 242
Replacement Gasket 7mm thick	10	3 842 523 102

* For smaller quantities, please contact your local distributor.

Section 8: Air Supply Elements

45mm Pneumatic End-to-End Kit 



Features:

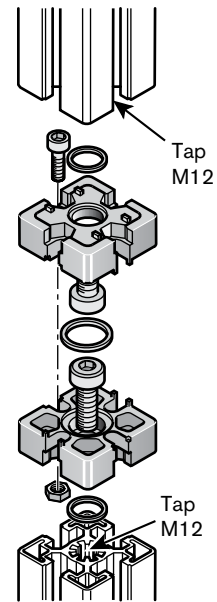
- Connects two 45x45 profiles together end-to-end to create an uninterrupted pneumatic duct via the center channel
- Can be used with compressed air up to 8 bar (≈120 psi)
- Maximum torque on profile connection is 120 Nm
- Includes all mounting hardware, seals, and two hollow M12 screws

Machining Required:

- End of both profiles tapped M12

Material:

- End plates: die-cast aluminum
- Hardware: zinc-plated steel



Description

Lot Size

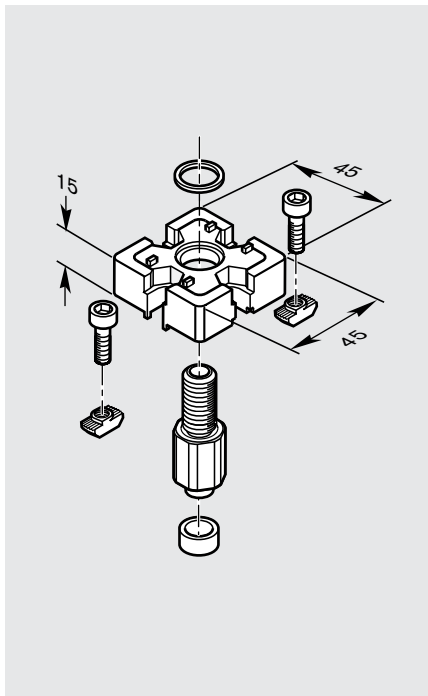
Part Number

45mm pneumatic end-to-end kit

1

3 842 523 094

45mm Pneumatic T-Junction Kit 



Features:

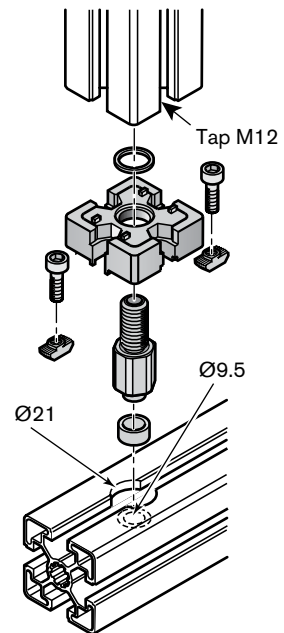
- Connects two 45x45 profiles together at right angles to create a pneumatic duct via the center channel
- Can be used with compressed air up to 8 bar (≈120 psi)
- Maximum torque on profile connection is 120 Nm
- Can be installed anywhere along length of profile
- Includes all mounting hardware, seals, and two hollow M12 screws

Machining Required:

- End of one profile tapped M12; other profile drilled 9.5mm with 21mm counterbore

Material:

- End plate: die-cast aluminum
- Hardware: zinc-plated steel



Description

Lot Size

Part Number

45mm pneumatic T-junction kit

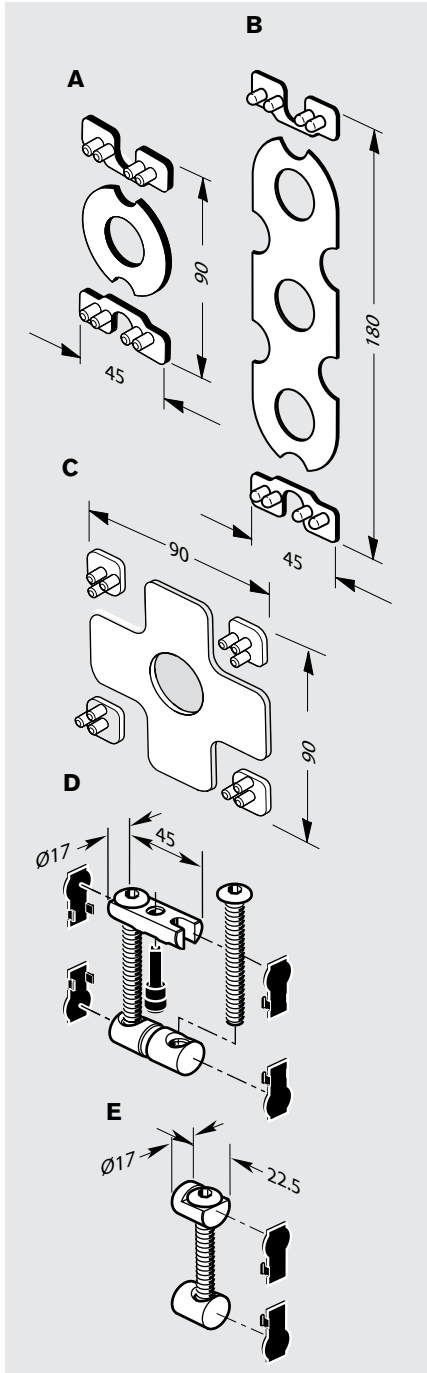
1

3 842 523 093

Section 8: Air Supply Elements

Air Supply Elements

Air Gaskets ¹⁰



Features:

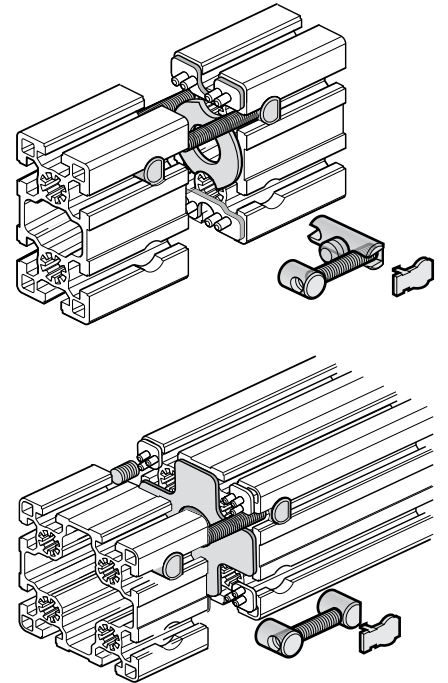
- Provide a seal between connecting ends of 45x90, 45x90H, 45x180H, 90x90, and 90x180 profiles to create a continuous linear channel
- Allows use of center channel to create an air duct for compressed air up to 8 bar (≅120 psi)
- 45x90H, and 45x180H require two end-to-end 45mm bolt connector kits (order **D** separately below)
- 90x90 and 90x180 require four universal bolt connector kits (order **E** separately below)

Machining Required:

- 17mm diameter holes for bolt connectors

Material:

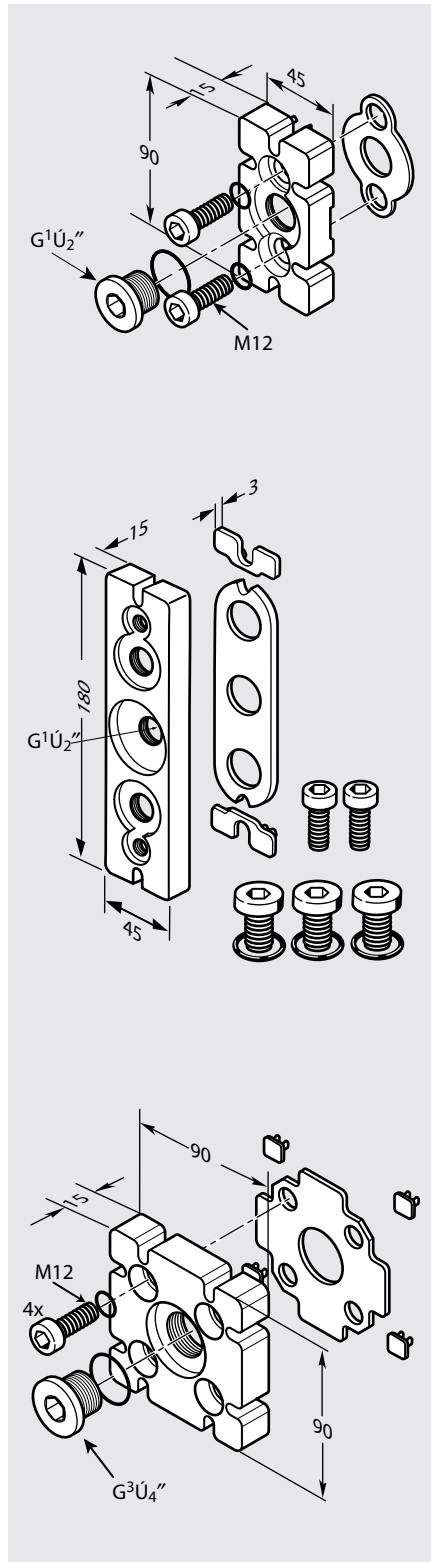
- 45x90H air gaskets: PUR
- 45x180H, 90x90, and 90x180 air gaskets: NBR



Description	Lot Size	Part Number
A 45x90H air gasket	1	3 842 508 087
B 45x180H air gasket	1	3 842 508 088
C 90x90 air gasket (two required for 90x180)	1	3 842 510 145
D End-to-end bolt connector kit, 45mm	1	3 842 529 248
E Universal end-to-end bolt connector kit	1	3 842 529 334

Section 8: Air Supply Elements

Multi-Port End Seal Kits for 45x90, 45x180H, and 90x90 Profiles



Features:

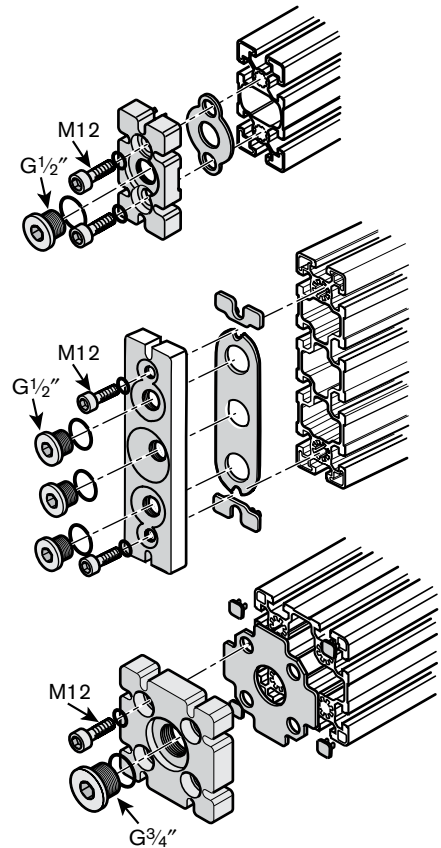
- Allows use of center channels to be used as air ducts for compressed air up to 8 bar (≈120 psi)
- Center bores of profiles can also be used to carry compressed air by replacing the M12 screws with M12-to-G^{1/4} fittings (sold separately, details on page 8-1)
- 45x90H and 45x180 feature G^{1/4} ports; 90x90 features a G^{3/4} port
- Includes end plate, gaskets, plugs, and all necessary mounting hardware
- Additional G^{1/2} plugs and seals, as well as G^{1/2}-to-G^{1/4} reducer nipples, are available separately

Machining Required:

- M12 tap in center bores of profile

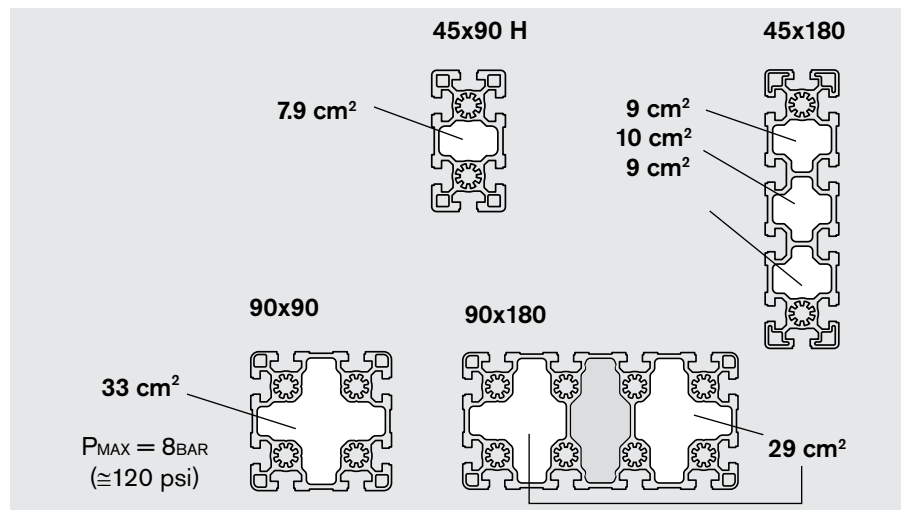
Material:

- End plate: die-cast aluminum
- Gaskets: 45x90–PUR; 45x180H and 90x90–NBR



Description	Lot Size*	Part Number
Multi-port end seal kit for 45x90H profile	1	3 842 523 097
Multi-port end seal kit for 45x180H profile	2	3 842 535 721
Multi-port end seal kit for 90x90 profile	1	3 842 523 098
Pneumatic fitting M12-to-G ^{1/4}	10	3 842 535 719
Reducing nipple G ^{1/2} to G ^{1/4} and seal	1	1 823 391 300
G ^{1/4} plug and seal	1	1 823 462 029

* For smaller quantities, please contact your local distributor.

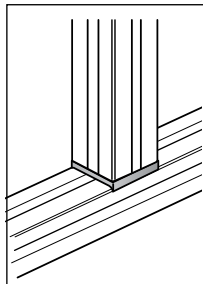


Section 9: Caps and Finishing Elements

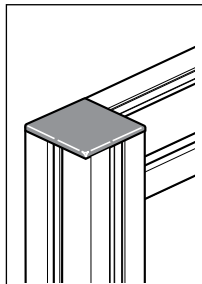
Overview

The wide variety of caps, end pieces, and T-slot covers helps you improve safety, as well as add a clean, finished appearance to your aluminum framing structure.

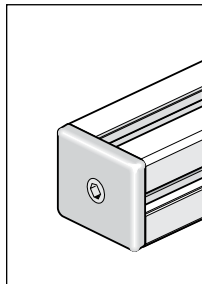
You can create your own design and style by combining different colors of end caps and T-slot covers and, at the same time, add safety by covering the open ends of profiles and enclosing cables that run along the T-slots.



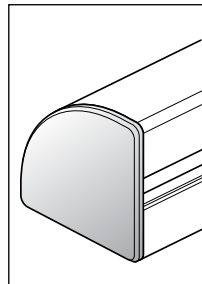
Radius Compensators
9-1



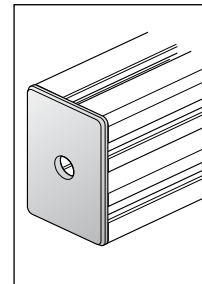
Square & Rectangular End Caps
9-2 & 9-3



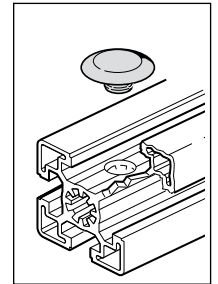
Heavy-Duty End Caps
9-3



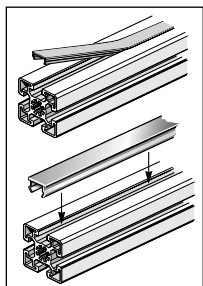
Radius & Specialty End Caps
9-4



End Caps with Holes
9-5



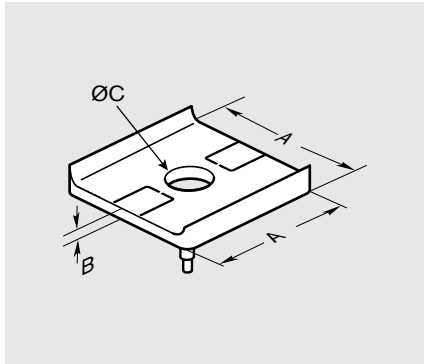
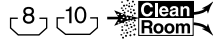
Access Hole Covers
9-5



T-Slot Covers
9-6

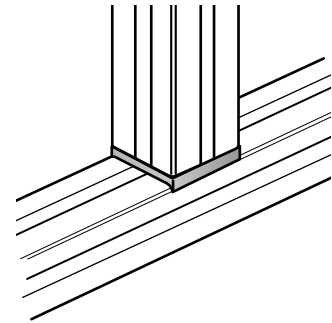
Section 9: Caps and Finishing Elements

Radius Compensators



Features:

- Eliminates gaps and edges created when two profiles are connected in a T-junction
- Available for 30x30, 40x40, and 45x45 profiles
- Ideal for use in clean rooms or any other location where a smooth surface is a must



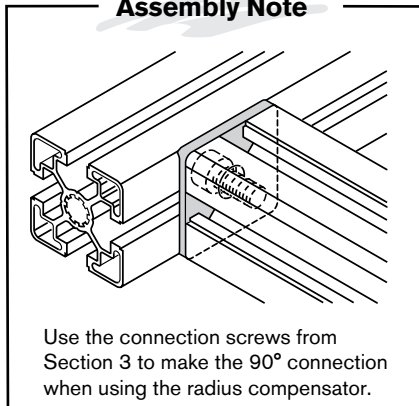
Material:

- Light gray polyamide 6

Radius Compensator	Dimension in mm		
	A	B	ØC
30x30	30	3	8.3
40x40	40	3	12.3
45x45	45	3	12.3

Description	Lot Size	Part Number
Radius compensator, 30x30	1	3 842 524 415
Radius compensator, 40x40	1	3 842 529 026
Radius compensator, 45x45	1	3 842 524 414

Assembly Note



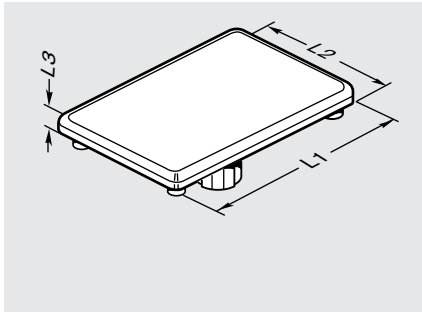
Technical Data

	⌀ (±5%)			
30x30	8	⌀ 25Nm	600 N	37 Nm 28 Nm
	8→8	⌀ 12Nm	600 N	37 Nm 28 Nm
40x40	10	⌀ 30Nm	1000 N	47 Nm 55 Nm
	10→10	⌀ 22Nm	1000 N	47 Nm 55 Nm
45x45	10	⌀ 35Nm	1200 N	53 Nm 59 Nm
	10→10	⌀ 25Nm	1200 N	53 Nm 59 Nm

The above values were determined under static conditions and are guide values only. Allow appropriate safety margins during planning!

Section 9: Caps and Finishing Elements

End Caps and Covers

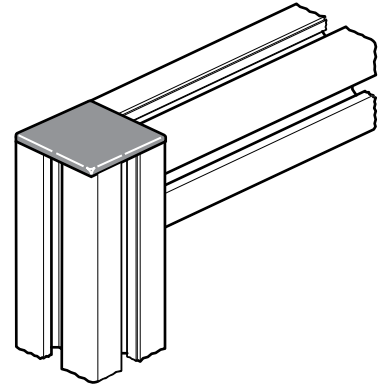


Features:

- Provide clean, finished appearance
- Available in several colors
- Conductive ESD-safe versions available in several sizes
- Easy installation—no tools needed

Material:

- Standard end caps: polyamide 6
- ESD-safe end caps: polyamide 12



Description	Use with Profile		Thickness (mm)		ESD-Safe	Lot Size	Part Number
	L1	L2	L3	Color			
End cap	11	x 20	3	Black		1	3 842 513 584
End cap	15	x 22.5	3	Black		1	3 842 537 594
End cap	20	x 20	2	Black		1	3 842 517 243 <i>GoTo</i>
End cap	20	x 20	2	Gray		1	3 842 517 614
End cap	20	x 60	2	Black		1	3 842 523 354
End cap	22.5	x 45	4	Black		1	3 842 501 577
End cap	22.5	x 180	4	Black		1	3 842 503 844
End cap	30	x 30	3	Black		1	3 842 501 232 <i>GoTo</i>
End cap	30	x 30	3	Black		1	3 842 517 057
End cap	30	x 30	3	Light Gray		1	3 842 516 506
End cap	30	x 45	3	Black		1	3 842 531 219
End cap	60	x 60 8S	3	Gray		1	3 842 535 586
End cap	40	x 40	4	Black		1	3 842 528 968
End cap	40	x 40	4	Gray		1	3 842 536 437
End cap	40	x 80	4	Black		1	3 842 529 036
End cap	40	x 80	4	Gray		1	3 842 536 436
End cap	45	x 45 (& 45x45H)	4	Black		1	3 842 502 674 <i>GoTo</i>
End cap	45	x 45 (& 45x45H)	4	Black		1	3 842 517 058
End cap	45	x 45 (& 45x45H)	4	Light Gray		1	3 842 517 059

Section 9: Caps and Finishing Elements

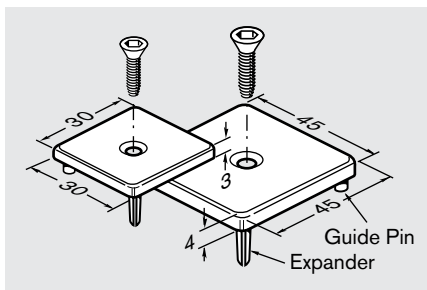
Square and Rectangular End Caps for Structural Profiles (continued)



Description	Use with Profile		Thickness (mm)		Color	ESD-Safe	Lot Size	Part Number
	L1	L2	L3					
End cap	45	x 60H	4		Black		1	3 842 515 122
End cap	45	x 60H	4		Black		1	3 842 517 855
End cap	45	x 90 (& 45x90H)	4		Black		1	3 842 511 783 GoTo
End cap	45	x 90	4		Grey		1	3 842 536 438
End cap	45	x 180H	4		Black		1	3 842 503 845
End cap	50	x 50*	4		Black		1	3 842 528 969
End cap	50	x 150	4		Black		1	3 842 529 052
End cap	60	x 60 (& 60x60H)	4		Black		1	3 842 511 874 GoTo
End cap	60	x 90H	4		Black		1	3 842 510 293
End cap	80	x 80	4		Black		1	3 842 529 039
End cap	80	x 120	4		Black		1	3 842 529 053
End cap	90	x 90	4		Black		1	3 842 516 214
End cap	90	x 90H	4		Black		1	3 842 242 400
End cap	100	x 100	4		Black		1	3 842 529 042

* Use two end caps for 50 x 100 applications

Heavy-Duty End Caps

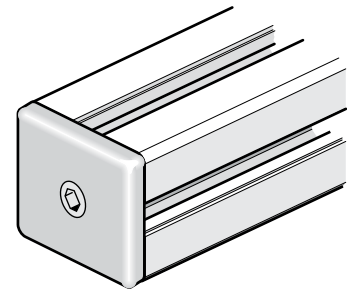


Features:

- Shockproof—suitable for heavy usage
- Guide pin aids in alignment
- Center expander securely locks end cap in place when self-tapping screw (included) is inserted

Material:

- End cap: Die cast zinc
- Screw: Zinc plated steel



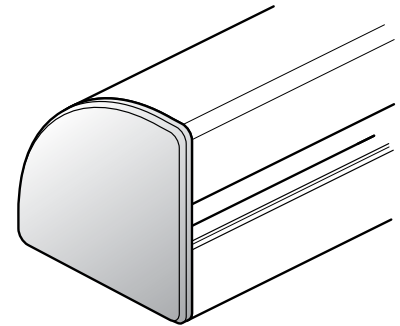
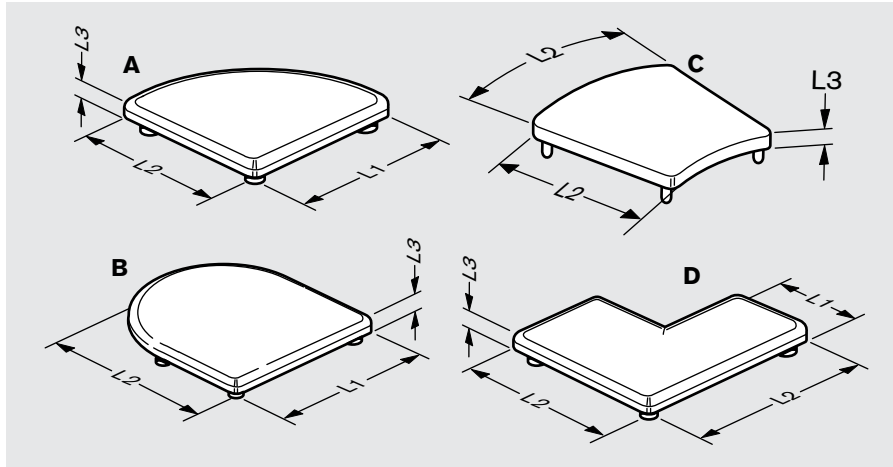
Description	Lot Size	Part Number
30x30 heavy-duty end cap, 3mm thick	1	3 842 518 204
45x45 heavy-duty end cap, 4mm thick	1	3 842 518 205

GoTo boschrexroth-us.com/framing to get these in stock items **FAST** from your local distributor

Section 9: Caps and Finishing Elements

End Caps and Covers

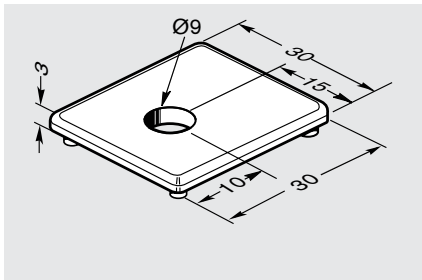
Radius and Specialty End Caps



- Provide clean, finished appearance
- Easy installation—no tools needed
- Standard end caps: polyamide 6
- ESD-safe end caps: polyamide 12

Description	Use with Profile		Thickness (mm)	Color	ESD-Safe	Lot Size	Part Number
	L1	L2					
End cap	20	x 20R	(Drawing A)	2	Black	1	3 842 517 247
End cap	30	x 30R	(Drawing A)	3	Black	1	3 842 517 248
End cap	40	x 40R	(Drawing A)	4	Black	1	3 842 529 044
End cap	40	x 40HR	(Drawing B)	4	Black	1	3 842 530 136
End cap	45	x 45R	(Drawing A)	4	Black	1	3 842 517 250
End cap	45	x 45HR	(Drawing B)	4	Black	1	3 842 521 265
End cap	30	x 30°R	(Drawing C)	3	Black	1	3 842 524 050
End cap	30	x 45°R	(Drawing C)	3	Black	1	3 842 524 051
End cap	30	x 60°R	(Drawing C)	3	Black	1	3 842 524 052
End cap	45	x 30°R	(Drawing C)	4	Black	1	3 842 524 053
End cap	45	x 45°R	(Drawing C)	4	Black	1	3 842 524 054
End cap	45	x 60°R	(Drawing C)	4	Black	1	3 842 524 055

EcoSafe End Cap



Features:

- Provide clean, finished appearance
- Easy installation—no tools needed
- Center hole allows use with leveling feet, casters, and some end connectors
- Designed specifically for EcoSafe frame profiles

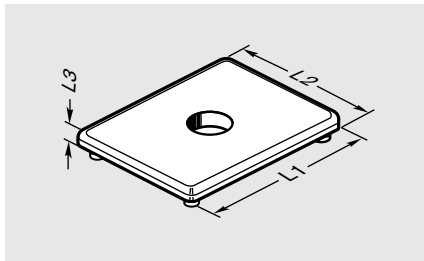
Material:

- Polyamide 6

Description	Lot Size	Part Number
EcoSafe end cap w/hole for 30x30 WG30 & WG40 profiles	1	3 842 522 345

Section 9: Caps and Finishing Elements

End Caps with Holes *GoTo*

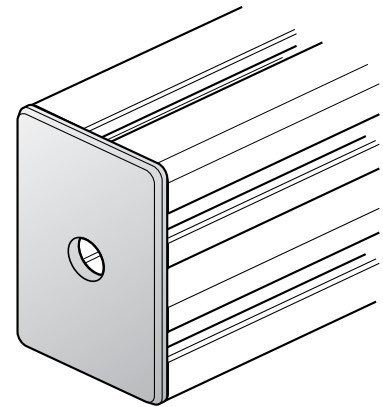


Features:

- Provide clean, finished appearance
- Easy installation—no tools needed
- Center hole allows use with leveling feet, casters, and some end connectors

Material:

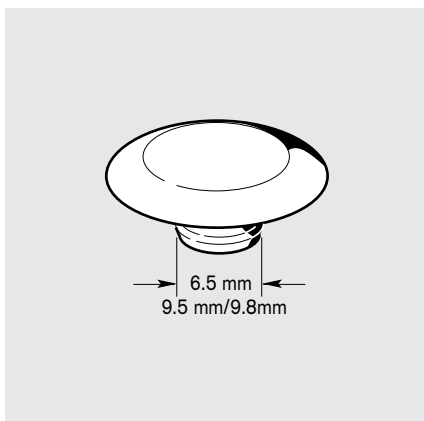
- Standard end caps: polyamide 6



Description	Use with Profile		Thickness (mm)		Color	ESD-Safe	Lot Size	Part Number
	L1	L2	L3					
End cap w/hole	30	x 30	3		Black		1	3 842 503 143
End cap w/hole	30	x 45	3		Black		1	3 842 531 220
End cap w/hole	45	x 45	4		Black		1	3 842 523 442 <i>GoTo</i>
End cap w/hole	45	x 60	4		Black		1	3 842 191 094
End cap w/hole	45	x 90	4		Black		1	3 842 511 855
End cap w/hole	60	x 60	4		Black		1	3 842 511 876
End cap w/hole	60	x 90	4		Black		1	3 842 514 663
End cap w/hole	90	x 90	4		Black		1	3 842 514 664

9

Access Hole Covers

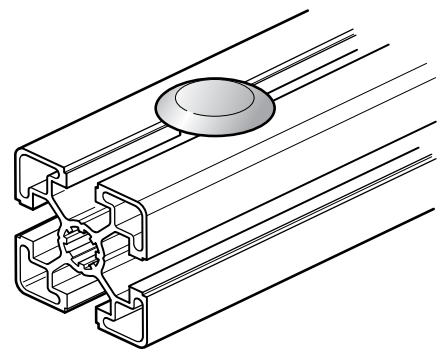


Features:

- Used to cover access holes in profiles
- Provide neat, finished appearance
- Easy installation—no tools needed

Material:

- Polyamide 6



Description	Lot Size	Part Number
6.5mm access hole cover, black [†]	1	8 981 005 305
9.5/9.8mm access hole cover, black	1	8 981 005 306

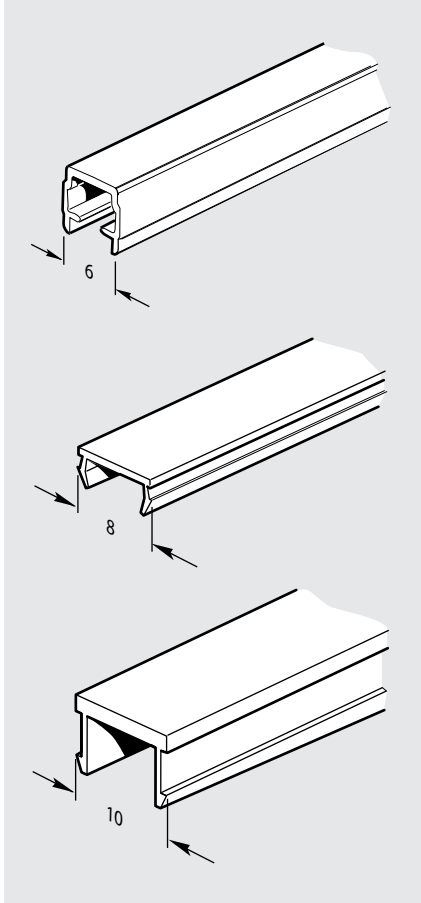
[†] NOTE: Can NOT be used with 7.8mm access holes.

GoTo boschrexroth-us.com/framing to get these in stock items **FAST** from your local distributor

Section 9: Caps and Finishing Elements

End Caps and Covers *GoTo*

T-Slot Covers 6 8 10

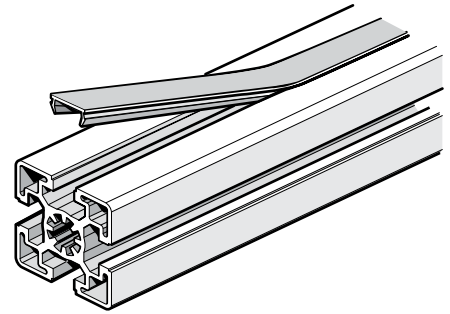


Features:

- Provide clean, finished appearance
- Can be used to conceal wires
- Prevent accumulation of dirt and debris in the T-slot
- Available in several colors

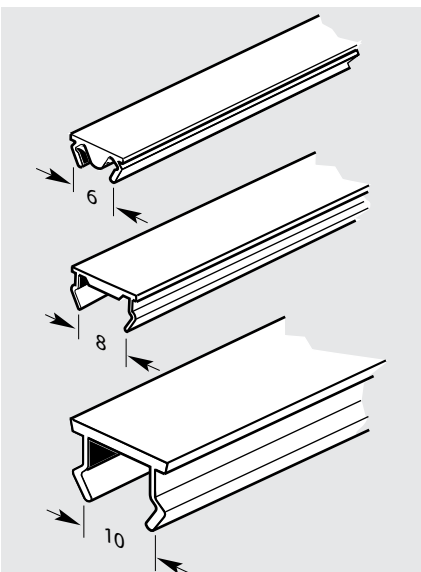
Material:

- Rigid PVC



Description	L = Length		Color	Lot Size	Part Number
6mm T-slot cover	2000 mm	6	black	1	3 842 518 343
6mm T-slot cover	10 m	6	light gray	1	3 842 542 435
8mm T-slot cover	2000 mm	8	black	1	3 842 501 962 <i>GoTo</i>
8mm T-slot cover	2000 mm	8	opaque	1	3 842 503 073
8mm T-slot cover	2000 mm	8	light gray	1	3 842 518 375
8mm T-slot cover	2000 mm	8	red	1	3 842 518 376
8mm T-slot cover	2000 mm	8	yellow	1	3 842 518 377
8mm T-slot cover	2000 mm	8	blue	1	3 842 538 956
8mm T-slot cover	2000 mm	8	orange	1	3 842 538 958
10mm T-slot cover	2000 mm	10	black	1	3 842 146 901 <i>GoTo</i>
10mm T-slot cover	2000 mm	10	clear	1	3 842 191 182
10mm T-slot cover	2000 mm	10	light gray	1	3 842 518 367 <i>GoTo</i>
10mm T-slot cover	2000 mm	10	red	1	3 842 518 368
10mm T-slot cover	2000 mm	10	yellow	1	3 842 518 369
10mm T-slot cover	2000 mm	10	blue	1	3 842 538 955
10mm T-slot cover	2000 mm	10	orange	1	3 842 538 957

Aluminum T-Slot Covers 6 8 10 *GoTo*

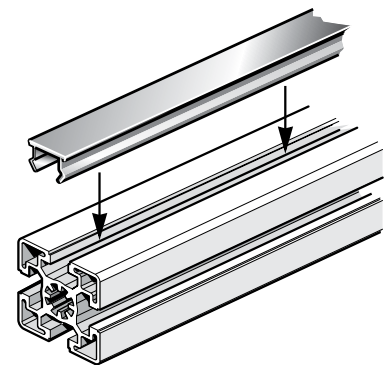


Features:

- Matches aluminum profile to create clean, finished appearance
- Can be used to conceal wires
- Prevents accumulation of dirt and debris in the T-slot
- Perfect for clean room applications
- Sold in 2000mm lengths

Material:

- Anodized aluminum



Description		Lot Size	Part Number
6mm aluminum T-slot cover	6	1	3 842 523 254
8mm aluminum T-slot cover	8	1	3 842 523 256
10mm aluminum T-slot cover	10	1	3 842 523 258 <i>GoTo</i>

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Section 9: Caps and Finishing Elements

Notes

Section 10: EcoFlow™ Conveyor and Transport Components

Overview

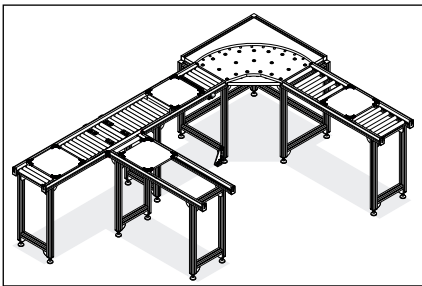
The EcoFlow manual palletized conveyor system, along with a full line of roller elements, roller profiles, support rollers, and other components are perfect to set up lean manufacturing work cells. These non-powered roller elements make material transfer within and between work cells easy.

Bosch also offers a complete line of modular powered conveyors. Call 1-800-REXROTH (1-800-739-7684) for a free brochure.

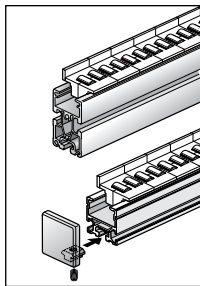
Modular conveyors for flexible manufacturing from Bosch Rexroth



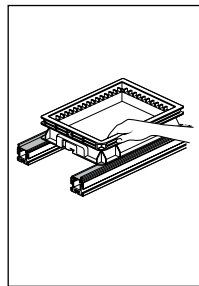
Powered Conveyor Brochure



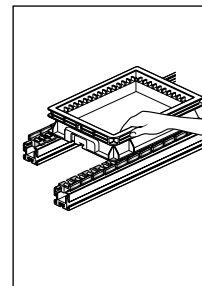
**EcoFlow
Conveyor Components**
10-2 to 10-12



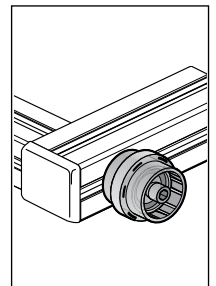
Roller Profiles
45x30RP,
45x45RP,
45x50RP, &
45x75SP2/B
10-13



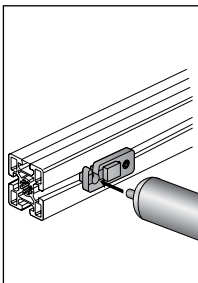
**FP2/B Guide
Profile**
10-14



Roller Elements
10-15



Support Rollers
10-16



**Track Roller
Mounting Blocks**
10-17

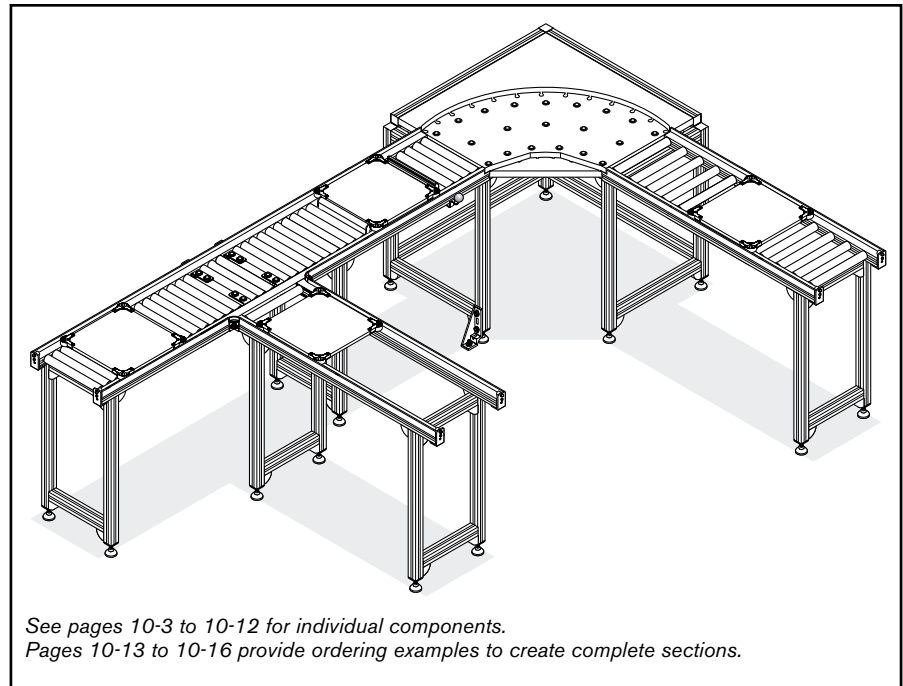
Section 10: EcoFlow™ Conveyor and Transport Components

EcoFlow Manual Conveyors

With the growing emphasis on lean manufacturing and semi-automated production, it is important to have a workpiece pallet-based manual conveyor system that is flexible enough to accommodate the rapidly changing demands of today's manufacturing environment.

EcoFlow offers a totally modular approach to manual conveyors. Extruded aluminum and PVC profiles can be quickly cut to length and assembled into custom length manual conveyor sections. Ball roller transfers and roller corners provide smooth, controlled routing of pallets. EcoFlow can use simple pallets constructed of wood, plastic, or steel.

The use of modular components makes it extremely easy to modify workstation or workcell designs. As a result, manufacturing process changes no longer lead to extended down times. The modular, bolt-together technology ensures rapid changeovers.



See pages 10-3 to 10-12 for individual components.
Pages 10-13 to 10-16 provide ordering examples to create complete sections.

The worker has complete control of the line as manual stops hold the pallets safely in position while work is being performed.

All of this is accomplished without electrical or pneumatic power. Workstations with workcells can be rapidly swapped out to allow for multiple part production on a single assembly line.

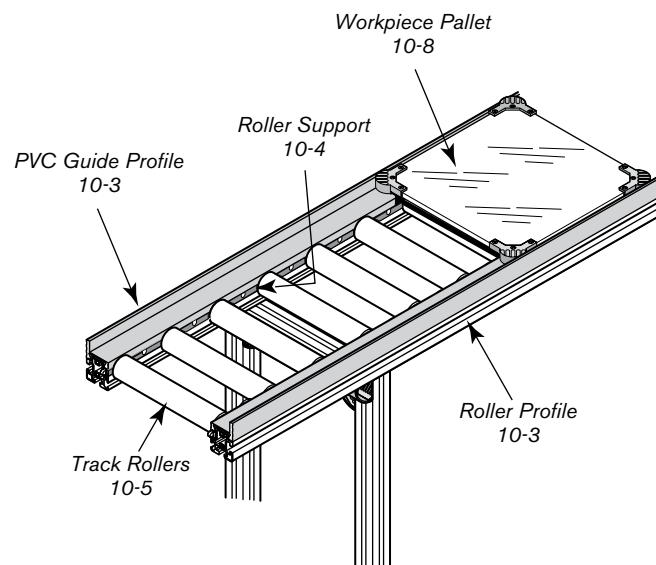
10

EcoFlow Components

The heart of the EcoFlow system is the roller conveyor section. This consists of an extruded aluminum Roller Profile, a die-cast plastic Roller Support, an extruded, low-friction PVC Guide Profile, and plastic or steel Track Rollers. The workpiece pallet rolls smoothly across the track rollers, or the conveyor can be set up as a slide line without the Track Rollers.

Additional components, such as roller ball transfers and pallet stops, provide additional layout versatility.

The components are ordered individually, allowing you to build the configuration perfect for your needs.



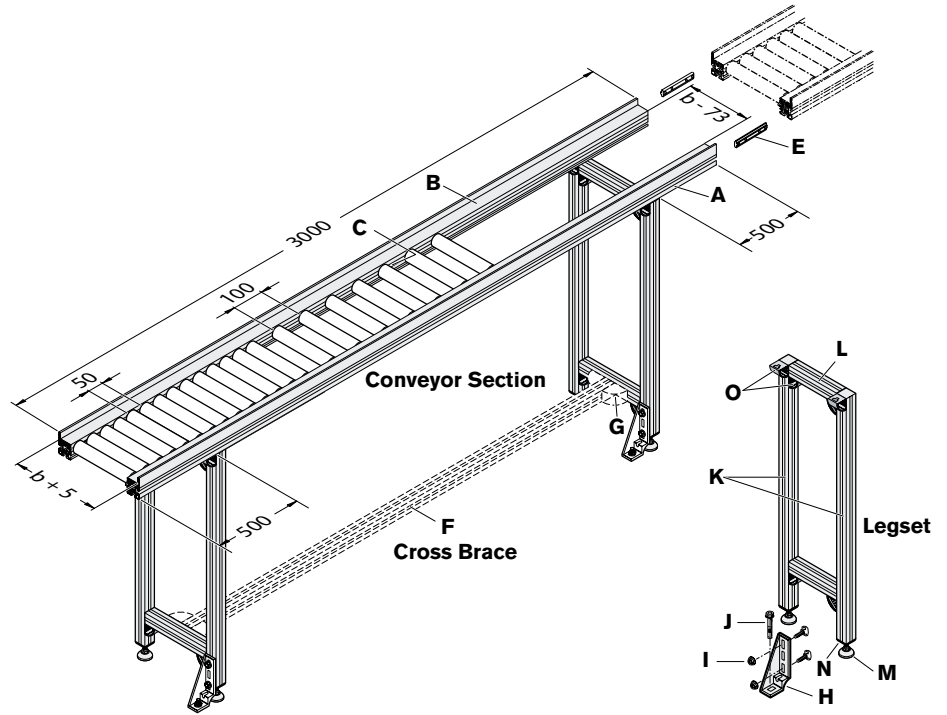
Section 10: EcoFlow™ Conveyor and Transport Components

EcoFlow Conveyor Sections

EcoFlow conveyor sections are often mounted to workstation tabletops. However, if needed, EcoFlow can also be used to create freestanding conveyors similar to the 3000mm long example shown here. Leg sets are constructed using 45x45 profile and gussets. Leveling feet provide 30mm of adjustment range.

- Three separate assemblies are shown:
- 1) EcoFlow Conveyor Section
 - 2) Leg Set
 - 3) Cross Brace

Cross braces are required for freestanding conveyors that are not secured to the floor with floor anchors.



Ref.	W (mm)	Qty. Req.	Part Number	Description	Section
A		See note	3 842 993 029/...mm¹	EcoFlow Roller Profile	10
B		See note	3 842 525 443 (3000mm)¹	EcoFlow Guide 3000mm	10
		See note	3 842 526 034 (3000mm)¹	EcoFlow Guide, ESD, 3000mm	10
C		See note	3 842 535 683²	EcoFlow Roller Support, Lot Size = 10, 300mm	10
D	300	20/m max	3 842 525 740	225mm Roller, Plastic	10
	400	20/m max	3 842 525 741	325mm Roller, Plastic	10
	500	20/m max	3 842 525 742	425mm Roller, Plastic	10
	300	20/m max	3 842 525 737	225mm Roller, Steel, ESD	10
	400	20/m max	3 842 525 738	325mm Roller, Steel, ESD	10
	500	20/m max	3 842 525 739	425mm Roller, Steel, ESD	10
E		2	3 842 528 746⁶	10mm Connection Link Kit	3
F		1	8 981 992 026/1910mm³	Profile 45x45 -/-	2
G		4	3 842 523 561	Gusset 45x45 with Fasteners	3
H		1	3 842 523 583	Gusset 45x180 (Foundation Bracket)	3
I		2	8 981 021 343	19mm T-Bolt Kit	4
J		1	3 842 526 560	Anchor Bolt FBN 8/10+23	7
K		2	8 981 992 027/...mm⁴	Profile 45x45 M12/-	2
L	300	2	8 981 992 026/227mm⁵	Profile 45x45 -/-	2
	400	2	8 981 992 026/327mm⁵	Profile 45x45 -/-	2
	500	2	8 981 992 026/427mm⁵	Profile 45x45 -/-	2
M		2	3 842 352 061	Leveling Foot M12x44	7
N		2	3 842 523 442	End Cap with Hole 45x45	7
O		6	3 842 523 561	Gusset 45x45 with Fasteners	3

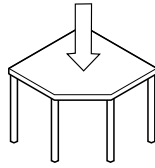
1 Cut to desired length of EcoFlow Conveyor.
 2 Roller Supports provide minimum roller spacing of 50mm. Determine required spacing to specify roller quantity.
 3 1910mm length for 3000mm EcoFlow conveyor section shown. (Only needed if conveyor is not anchored to floor.)
 4 Specify length for the desired line height. Line height = specified length + 90mm.
 5 Select one for desired line width.
 6 Only required if connecting two lines end to end.

Section 10: EcoFlow™ Conveyor and Transport Components

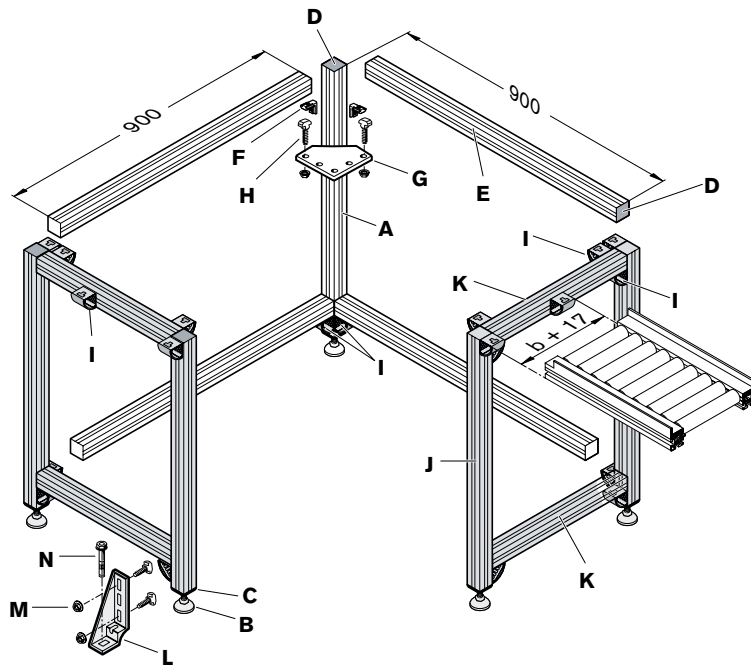
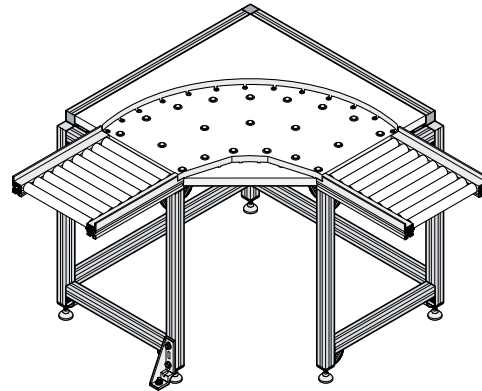
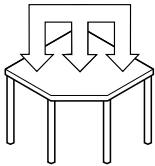
EcoFlow Corner Frame

The EcoFlow Corner Frame provides a frame to support the EcoFlow Corner Tabletop. The frame and legs are constructed using 45x45 profile and gussets. Leveling feet provide 30mm of adjustment range. A corner joining plate supports the tabletop flush with the upper surface of the 45x45 frame, creating a smooth, easy-to-maintain surface.

$F_{max} = 1000N$



$F_{max} = 1500N$



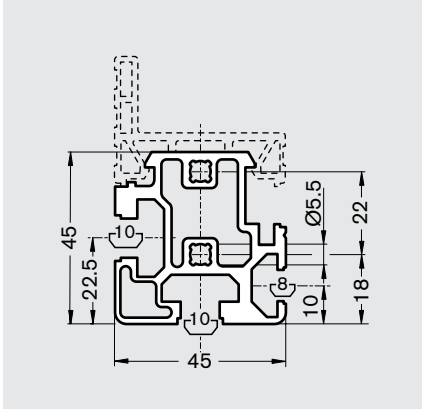
Ref.	Qty. Req.	Part Number	Description	Section
A	1	8 981 992 027/...mm ¹	Profile 45x45 M12/-	2
B	5	3 842 352 061	Leveling Foot M12x44	7
C	5	3 842 523 442	End Cap with Hole 45x45	7
D	3	3 842 502 674	End Cap 45x45	9
E	4	8 981 992 026/900mm	Profile 45x45 -/-	2
F	2	3 842 535 571	10mm Inside-to-Inside Gusset, Lot Size = 10	3
G	1	8 981 019 448	Corner Joining Plate 45	3
H	2	8 981 021 343	19mm T-Bolt Kit	4
I	20	3 842 523 561	Gusset 45x45 with Fasteners	3
J	4	8 981 992 027/...mm ²	Profile 45x45 M12/-	2
K	4	8 981 992 026/510mm	Profile 45x45 -/-	2
L	1 (or as needed)	3 842 523 583	Gusset 45x180 (Use as required)	3
M	2	8 981 021 343	19mm T-Bolt Kit	4
N	1	3 842 526 560	Anchor Bolt FBN 8/10+23	7

¹ L = Tabletop height - 40mm

² L = Tabletop height - 85mm

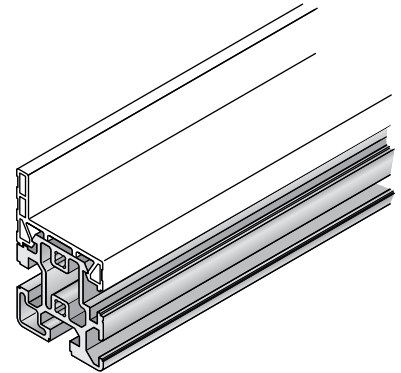
Section 10: EcoFlow™ Conveyor and Transport Components

EcoFlow Roller Profile 



Features:

- Forms the structural framework for the EcoFlow conveyor
- Features two 10mm T-slots (on the outside face and bottom of profile) and one 8mm T-slot on the inside face of the profile
- Special top shape holds the EcoFlow guide profile securely in place



Material:

- Anodized aluminum

Non-Machined End Finish Options

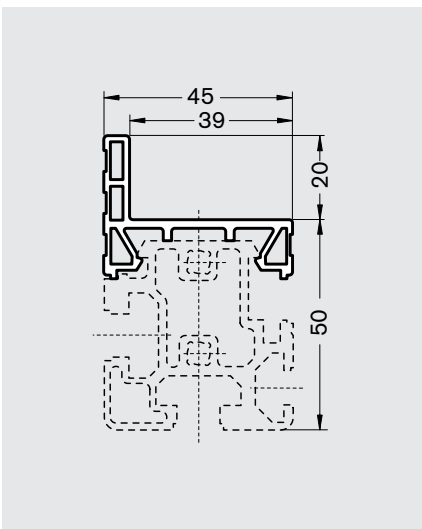
	Part Number
EcoFlow roller profile, pkg. of 20, 6070mm long	3 842 537 321
EcoFlow roller profile, 6070mm long	3 842 537 357

Machined Options

	End Finish	Part Number
EcoFlow roller profile, -/-, specify length $\geq 40\text{mm} \leq 6000\text{mm}$		3 842 993 029/ _mm

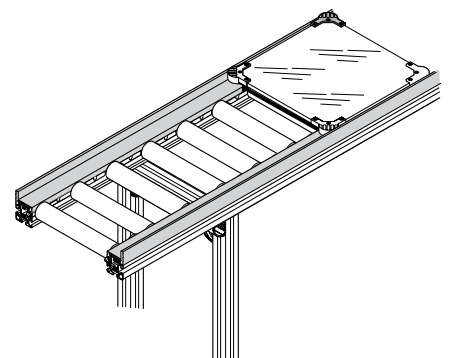
Please contact your distributor for other machining options.

EcoFlow Guide Profile 



Features:


- Serves as a low-friction slider surface
- Creates a guiding edge for pallets
- Holds track rollers and roller support in place
- Easy clip-on installation
- Available in ESD or standard versions
- For light loads, can also be used in slide lines without rollers



Material:

- Standard version: gray PVC
- ESD version: black PVC

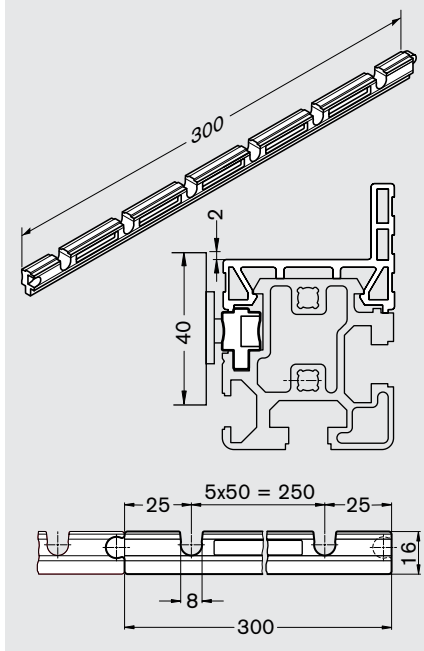
Description

Description	Lot Size	Part Number
EcoFlow guide profile, 3000mm long	10	3 842 525 443
EcoFlow guide profile, ESD, 3000mm long 	10	3 842 526 034

Section 10: EcoFlow™ Conveyor and Transport Components

EcoFlow Manual Conveyors

EcoFlow Roller Supports

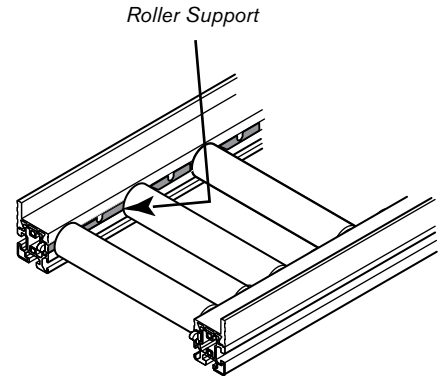



Features:

- Provides proper spacing and secure installation for track rollers
- Ends interlock with tab-slot design to create longer sections
- For shorter lengths, roller supports can be easily trimmed to length with a conventional saw
- Slide easily into place
- ESD-safe

Material:

- Black ABS plastic

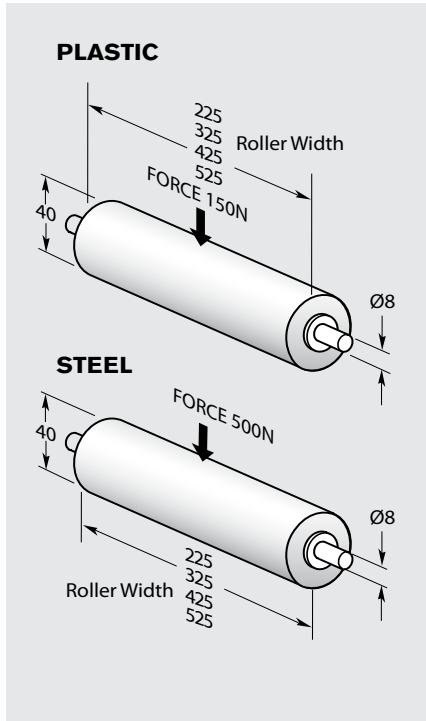


Description	Lot Size*	Part Number
EcoFlow roller supports, 300mm long 	10	3 842 535 683

* For smaller quantities, please contact your local distributor.

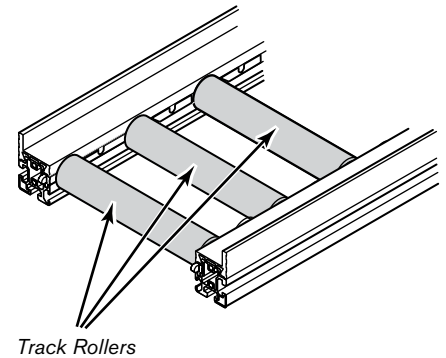
Section 10: EcoFlow™ Conveyor and Transport Components

EcoFlow Track Rollers 







Features:

- Snap easily into roller support
- Allow smooth movement of pallets along the conveyor line
- Three standard widths
- Available in ESD or standard versions
- Fit into U-shaped notch on roller support; guide profile locks them into place
- Standard versions are durable plastic; ESD rollers made of steel

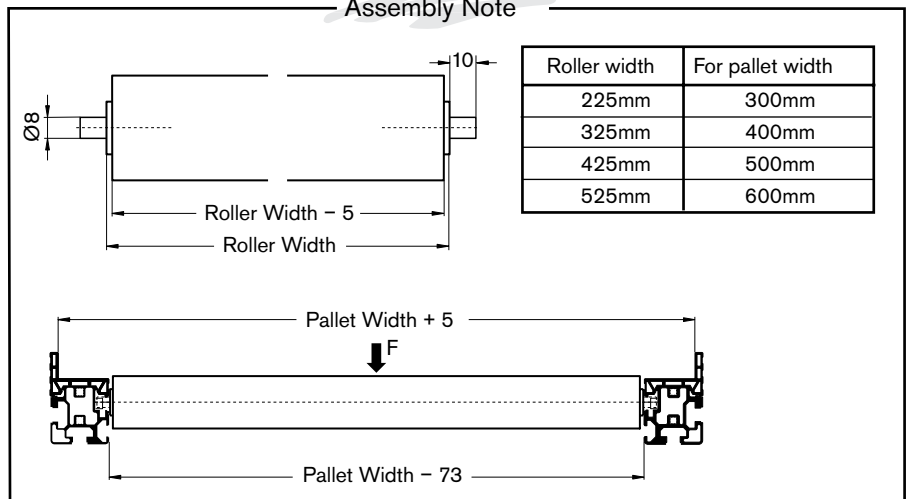


Material:

- Standard roller: plastic
- ESD roller: steel

Description	Lot Size	Part Number
Plastic track roller, 225mm wide	1	3 842 525 740
Plastic track roller, 325mm wide	1	3 842 525 741
Plastic track roller, 425mm wide	1	3 842 525 742
Plastic track roller, 525mm wide	1	3 842 537 164
Steel track roller, 225mm wide 	1	3 842 525 737
Steel track roller, 325mm wide 	1	3 842 525 738
Steel track roller, 425mm wide 	1	3 842 525 739
Steel track roller, 525mm wide 	1	3 842 537 163

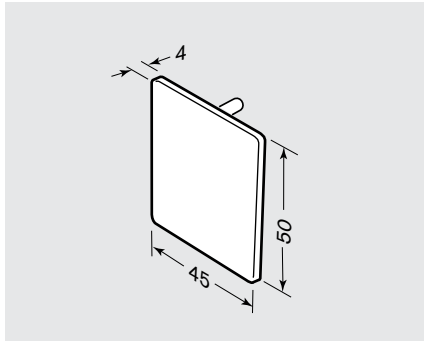
Assembly Note



Section 10: EcoFlow™ Conveyor and Transport Components

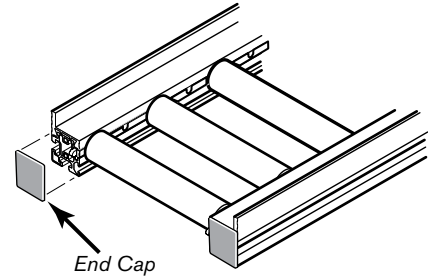
EcoFlow Manual Conveyors

EcoFlow End Cap



Features:

- Provides aesthetically pleasing finish for Roller Profiles and eliminates end crevices where dust and dirt can accumulate
- Prevents potential injuries or damage from exposed profile ends
- Easy press-on installation
- Can NOT be used with EcoFlow End Stops on the same profile end



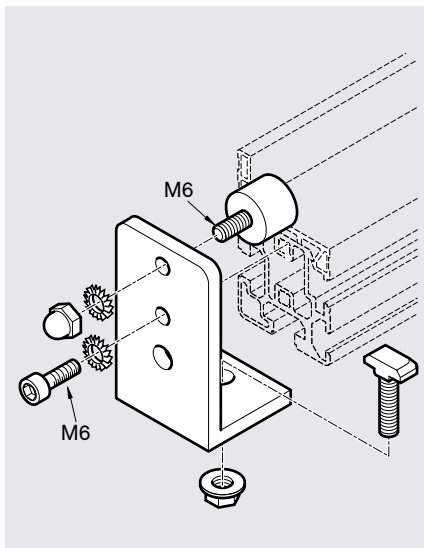
Material:

- Black polyamide

Description	Lot Size	Part Number
EcoFlow end cap	1	3 842 525 457

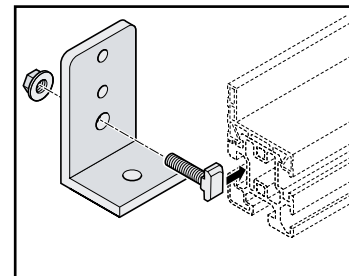
EcoFlow End Stops

10



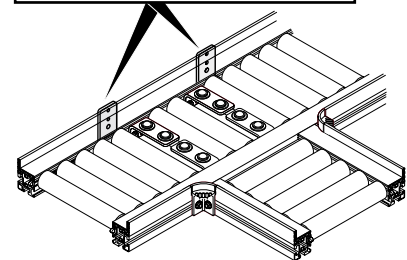
Features:

- Provides easy and efficient way to stop workpiece pallets at the end of conveyor sections
- Rubber bumper absorbs shock and protects the pallet and product
- Can also be used at T-intersections to reinforce the guide profile
- Includes mounting hardware



Material:

- Bracket: aluminum
- Bumper: black PUR
- Hardware: zinc-plated steel



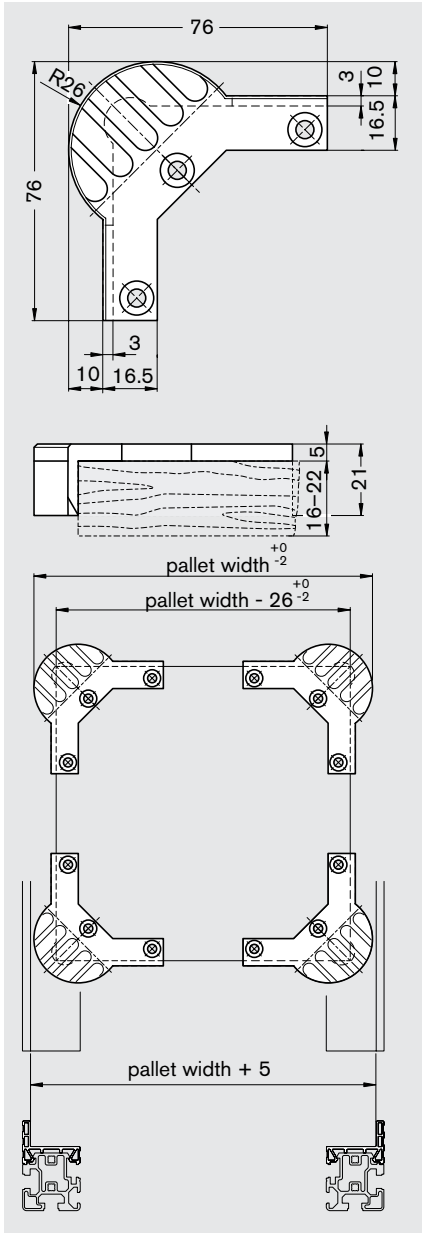
Alternative End Stop Installation

Description	Lot Size*	Part Number
EcoFlow end stop kit	2	3 842 536 057

* For smaller quantities, please contact your local distributor.

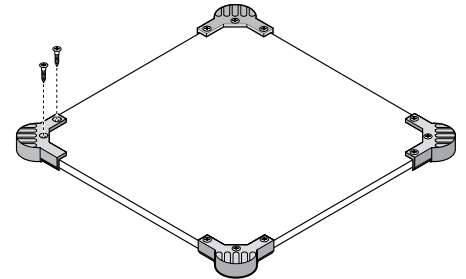
Section 10: EcoFlow™ Conveyor and Transport Components

EcoFlow Pallet Corners 



Features:

- Allow construction of workpiece pallets from a variety of materials, including plywood, chipboard, plastic, metal, etc.
- Attach quickly and easily with 12 wood screws (included) or machine screws (not included) depending on the material used for the pallet plate
- Provide smoother pallet movement in curves and intersections
- Create a cushion between pallets to reduce shock and noise
- Provide proper pallet spacing for use with EcoFlow Pallet Stops
- **Required** when using an EcoFlow Pallet Stop as a rebound stop



Material:

- Conductive black polyamide

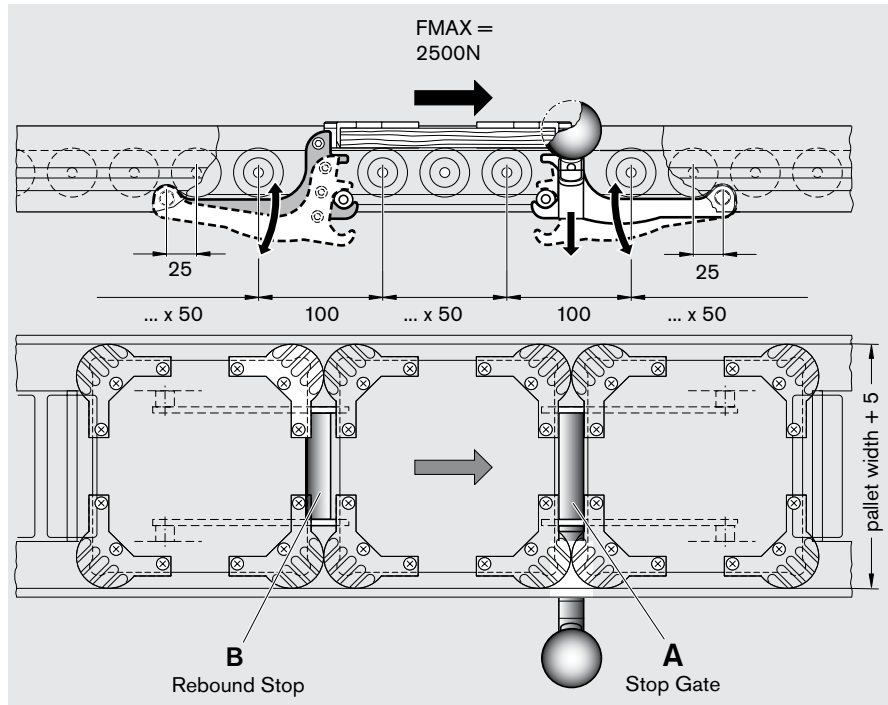
Description	Lot Size*	Part Number
EcoFlow pallet corners (with 12 wood screws)	4	3 842 536 054

* For smaller quantities, please contact your local distributor.

Section 10: EcoFlow™ Conveyor and Transport Components

EcoFlow Manual Conveyors

EcoFlow Pallet Stop and Stop Handle



Features:

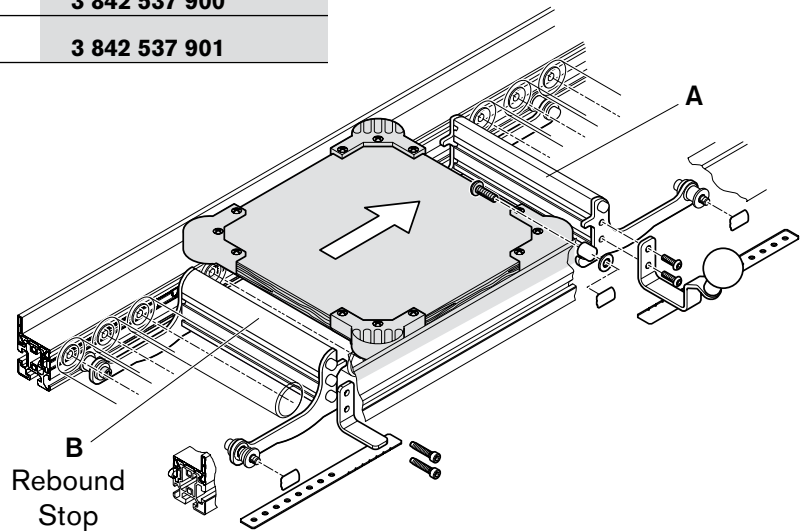
- Effective way to stop pallets at workstations or intersections
- Spring-loaded, reversible design allows use as a self-resetting in-line stop, or as a rebound stop
- Four sizes available to match standard EcoFlow line widths: 300mm, 400mm, 500mm and 600mm
- To ensure proper operation, all pallets **must** be equipped with EcoFlow Pallet Corners
- Mounting hardware included

Material:

- Stops: anodized aluminum and conductive black polyamide
- Hardware: zinc-plated steel

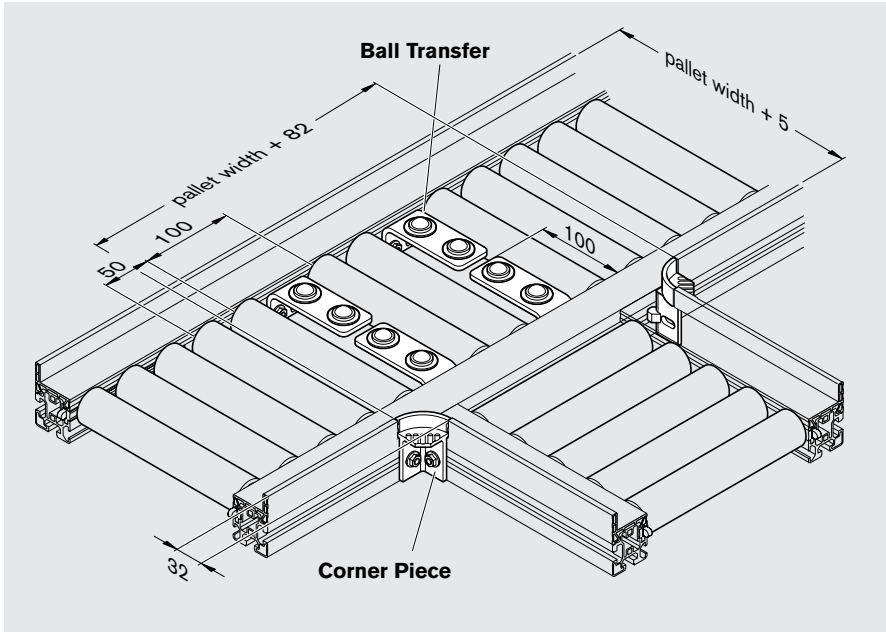
10

Description	Lot Size	Part Number
A EcoFlow pallet stop gate, 300mm	1	3 842 537 894
A EcoFlow pallet stop gate, 400mm	1	3 842 537 895
A EcoFlow pallet stop gate, 500mm	1	3 842 537 896
A EcoFlow pallet stop gate, 600mm	1	3 842 537 897
B EcoFlow pallet rebound stop, 300mm	1	3 842 537 898
B EcoFlow pallet rebound stop, 400mm	1	3 842 537 899
B EcoFlow pallet rebound stop, 500mm	1	3 842 537 900
B EcoFlow pallet rebound stop, 600mm	1	3 842 537 901



Section 10: EcoFlow™ Conveyor and Transport Components

EcoFlow Ball Cross Transfer and EcoFlow Corner Piece



EcoFlow Ball Cross Transfer

Features:

- Used to change workpiece pallet direction at a 90° junction
- Ball rollers provide smooth pallet movement
- Can be used with any standard sized pallet; use of pallet corners is recommended for all pallets
- No pallet lift required
- Mounts easily to 8mm T-slot on inside of EcoFlow profile
- Mounting hardware for 8mm T-slot included

Material:

- Galvanized steel bracket with stainless steel roller balls

EcoFlow Corner Piece

Features:

- Ensures smooth pallet transfer, prevents pallets from getting hung up
- Mount to outer 10mm T-slots of EcoFlow profiles
- Mounting hardware for 10mm T-slot included

Material:

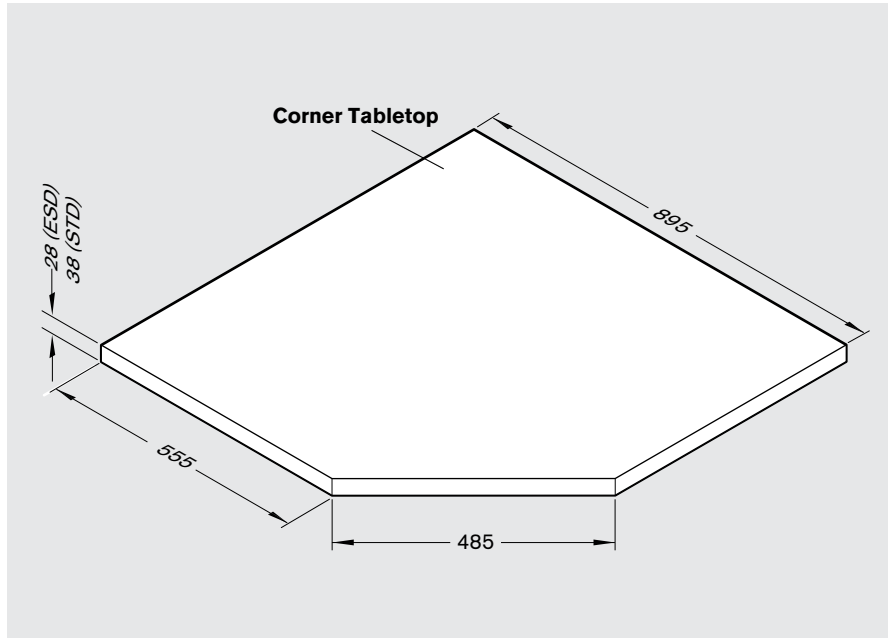
- Conductive black polyamide

Description	Lot Size	Part Number
EcoFlow ball cross transfer with hardware (includes 4)	1	3 842 536 055
EcoFlow corner piece with hardware (includes 2)	1	3 842 536 056

Section 10: EcoFlow™ Conveyor and Transport Components

EcoFlow Manual Conveyors

EcoFlow Roller Ball and EcoFlow Corner Tabletop



Features:

- Construct a roller curve to connect two straight sections
- Allows smooth pallet flow while maintaining leading edge orientation
- Corner Tabletops available in economy and ESD versions

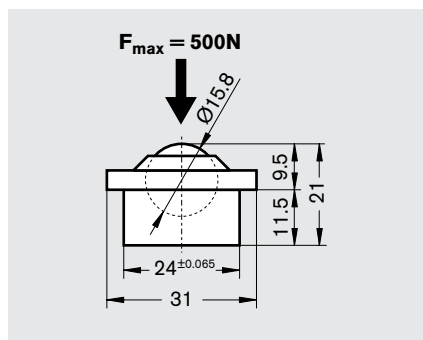
Material:

- Roller balls: stainless steel ball with galvanized steel case
- Tabletops: hard-coated chipboard

10

Description	Lot Size	Part Number
EcoFlow corner tabletop, economy	1	R980025275
EcoFlow corner tabletop, ESD	1	R980025276

EcoFlow Roller Ball

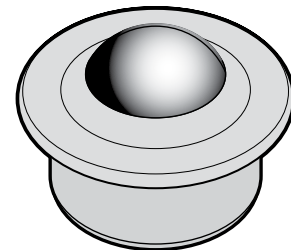


Features:

- Construct custom roller curves or roller transfer tables
- Ensure smooth pallet movement
- Replace worn or damaged rollers
- Easy installation; for proper installation use a 24mm Forstner bit to prepare a hole in the tabletop

Material:

- Stainless steel ball with galvanized steel case

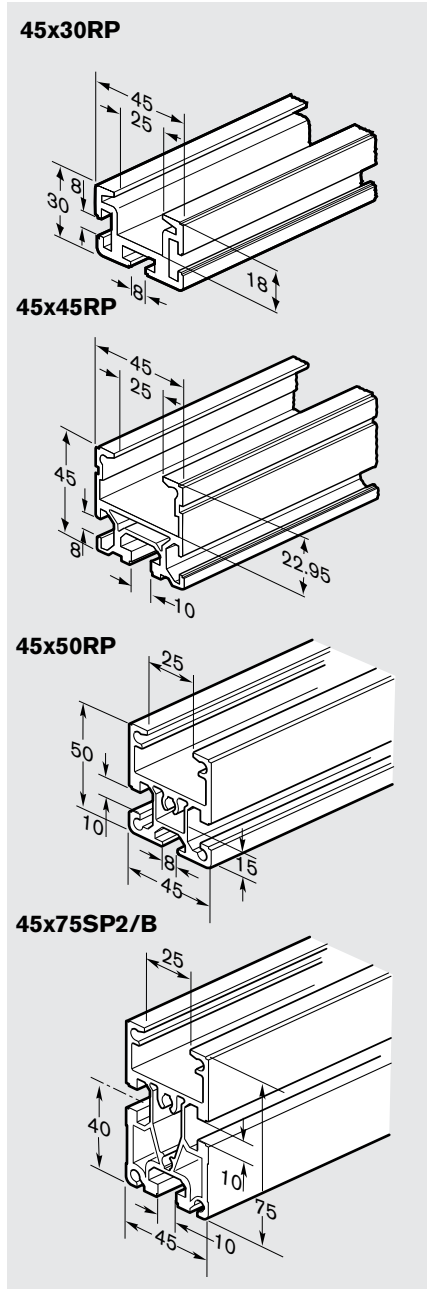


Description	Lot Size	Part Number
EcoFlow roller ball	1	3 842 541 008

Section 10: EcoFlow™ Conveyor and Transport Components

Roller and Guide Elements

Roller Profiles

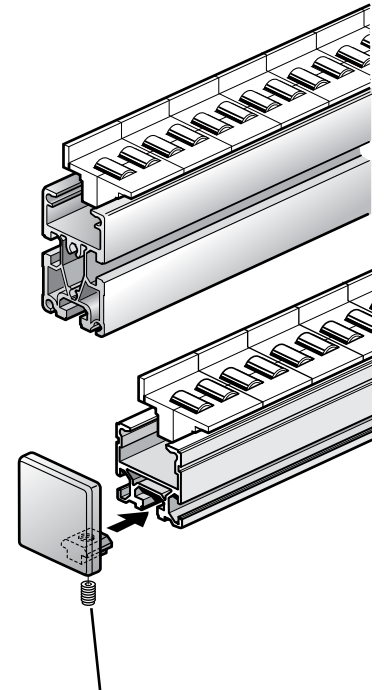


Features:

- Designed to hold roller elements or guide profiles to create non-powered conveyor sections for material transfer or gravity feed
- Suitable for distributed loads up to 90 kg/m (60 lbs./ ft.)
- Vertical supports should be placed at intervals of every 2m (≈ 6.5 ft.), or more often as needed, along the entire length of the profile
- 45x30RP has an 8mm T-slot on each side and on the bottom (three total)
- 45x45RP has an 8mm T-slot on each side and a 10mm T-slot on the bottom
- 45x50RP has a 10mm T-slot on each side and an 8mm T-slot on the bottom
- 45x75SP2/B has 10mm T-slots on each side and on the bottom (three total)

Material:

- Natural anodized aluminum



45x45 End Stop can be used as an impact resistant end cap for 45x45RP (details in Section 5)

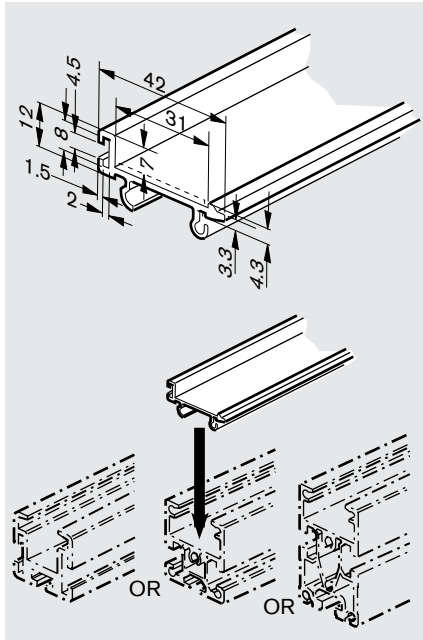
Non-Machined End Finish Options	Lot Size	Part Number
Roller profile 45x30RP, single, 6000mm long		3 842 508 553
Roller profile 45x45RP, pkg. of 20, 5600mm long		3 842 511 376
Roller profile 45x45RP, single, 5600mm long		3 842 511 377
45x45 end stop kit	1	3 842 191 194
Roller profile 45x50RP, pkg. of 20, 6000mm long		3 842 532 697
Roller profile 45x50RP, single, 6000mm long		3 842 532 670
Roller profile 45x75SP2/B single, 6000mm long		3 842 532 592

Machined Options	End Finish	Part Number
Roller Profile 45x30RP, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	3 842 992 676/ __mm
Roller Profile 45x45RP, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$	<input type="checkbox"/>	3 842 990 408/ __mm
Roller Profile 45x50RP, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$	<input type="checkbox"/>	3 842 992 903/ __mm
Roller Profile 45x75SP2/B, -/-, specify length $\geq 30\text{mm} \leq 6000\text{mm}$	<input type="checkbox"/>	3 842 992 884/ __mm

Section 10: EcoFlow™ Conveyor and Transport Components

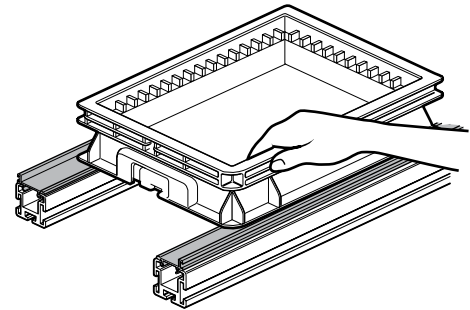
Roller and Guide Elements

FP2/B Guide Profile



Features:




- Perfect for any manual push-type material transfer application, or for gravity-feed conveyors and feed racks
- Low coefficient of friction allows easy pallet movement
- Conductive material suitable for ESD applications
- Fits 45x30RP, 45x45RP, 45x50RP, and 45x75SP2/B profiles
- Easy clip-in installation



Material:

- Conductive polyamide 12

Non-Machined End Finish Options

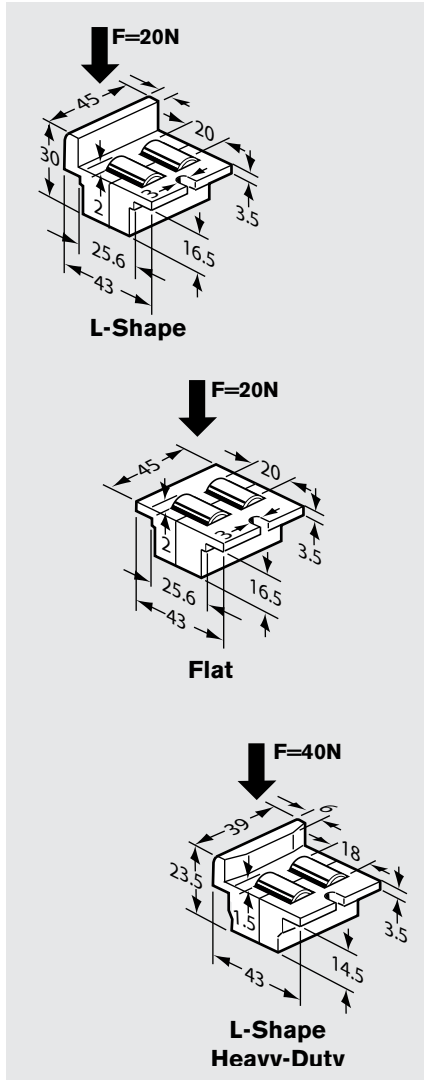
		Part Number
Guide profile FP2/B, single, 6000mm long		3 842 532 594
Guide profile FP2/B, pkg. of 16, 6000mm long		3 842 532 675

Machined Options

		End Finish	Part Number
Guide profile FP2/B, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$			3 842 992 651/ _ mm

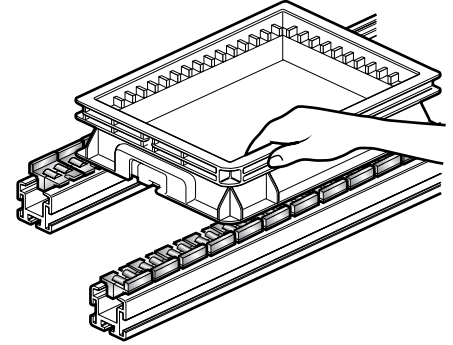
Section 10: EcoFlow™ Conveyor and Transport Components

Roller Elements



Features:

- Perfect for any manual push-type material transfer application, or for gravity-feed conveyors and feed racks
- Ideal for manual operations at workstations, such as loading, unloading, and assembly
- Fits 45x30RP, 45x45RP, 45x50RP, and 45x75SP2/B profiles
- Easy slide-in installation
- Three styles are available:
 - 1) L-shape, for holding pallets, bins, trays, etc. between rails; and
 - 2) Flat, for applications where no guide is needed, or an alternative guide exists
- Maximum load per roller element is 20N (≈ 4.5 lbs.) for standard version, or 40N (≈ 9 lbs.) for heavy-duty version



Material:

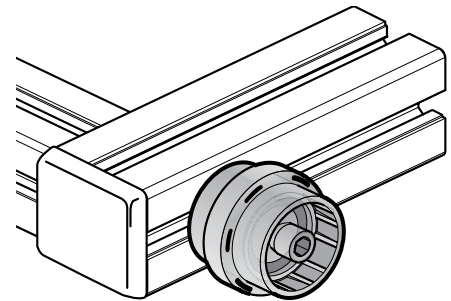
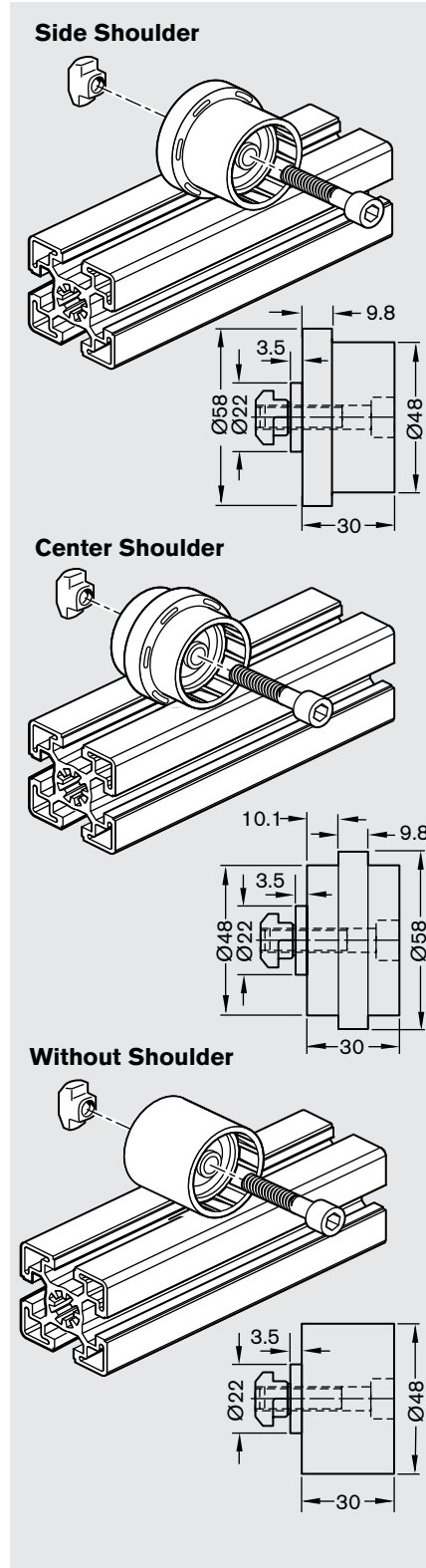
- Black polyamide
- Heavy-duty version has steel axle pin

Description	Lot Size	Part Number
L-shape roller element	100	3 842 319 500
Flat roller element	100	3 842 319 501
L-shape heavy-duty roller element	1	3 842 520 000

Section 10: EcoFlow™ Conveyor and Transport Components

Roller and Guide Elements

Support Rollers 10



Features:

- Used to move components along the surface of 10mm T-slotted profiles
- Common applications include pallets, large sliding doors, and linear motion where critical tolerances aren't essential
- Ball-bearings ensure smooth movement
- Three styles are available:
 - 1) roller with side shoulder
 - 2) roller with center shoulder
 - 3) roller without shoulder
- Ball-bearings ensure smooth movement
- Maximum load capacities:
Downward forces = 150N (34 lbs.)
Side forces = 100N (23 lbs.)
- Includes installation hardware

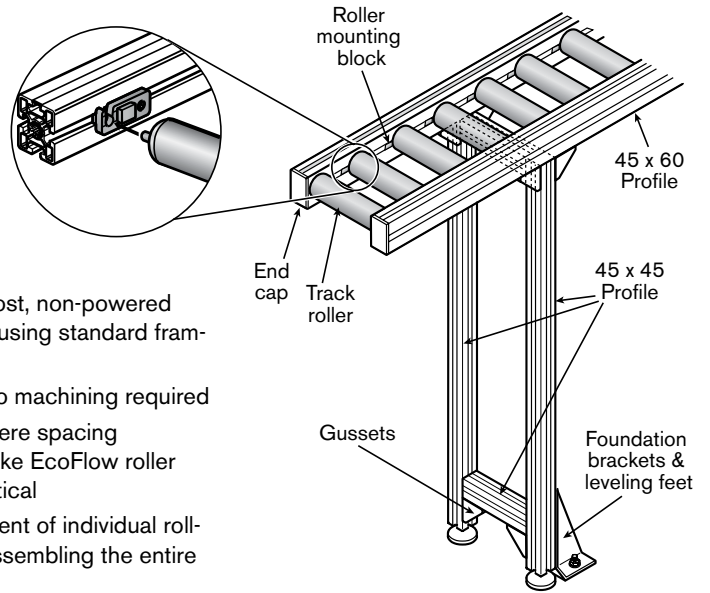
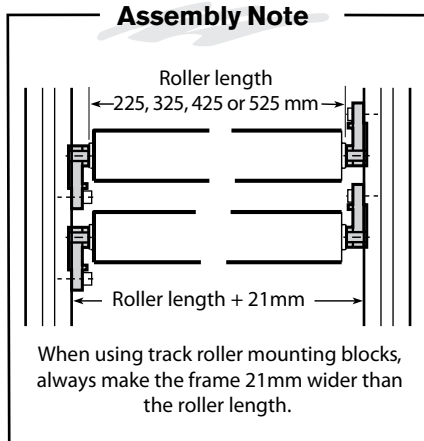
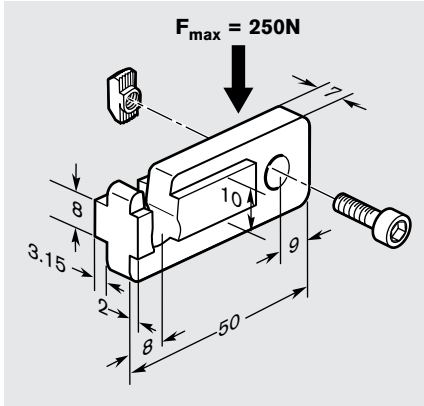
Material:

- Roller: black polyamide
- Screw and T-nut: zinc-plated steel

Description	Lot Size	Part Number
Support roller with side shoulder	1	3 842 218 941
Support roller with center shoulder	1	3 842 218 940
Support roller without shoulder	1	3 842 218 942

Section 10: EcoFlow™ Conveyor and Transport Components

Track Roller Mounting Block  

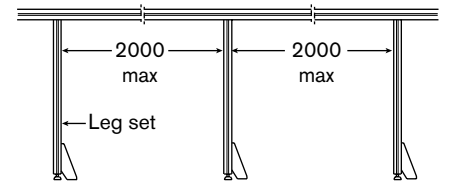


Features:







- Construct low-cost, non-powered roller conveyors using standard framing components
- Easy to install; no machining required
- Can be used where spacing requirements make EcoFlow roller supports impractical
- Allows replacement of individual rollers without disassembling the entire system
- Reversible block can be used in either 8mm or 10mm T-slots; available with hardware for 8mm or 10mm T-slots
- See EcoFlow Track Rollers in this section for more detailed information on track rollers

Material:

- Roller mounting block: black polyamide 6
- Standard roller: plastic
- ESD roller: steel



Do not exceed maximum spacing for leg sets

Description	Lot Size*	Part Number
Track roller mounting block 	10	3 842 535 667
Track roller mounting block 	10	3 842 535 668
Plastic track roller, 225mm wide	1	3 842 525 740
Plastic track roller, 325mm wide	1	3 842 525 741
Plastic track roller, 425mm wide	1	3 842 525 742
Plastic track roller, 525mm wide	1	3 842 537 164
Steel track roller, 225mm wide 	1	3 842 525 737
Steel track roller, 325mm wide 	1	3 842 525 738
Steel track roller, 425mm wide 	1	3 842 525 739
Steel track roller, 525mm wide 	1	3 842 537 163

* For smaller quantities, please contact your local distributor.

Section 10: EcoFlow™ Conveyor and Transport Components

Notes

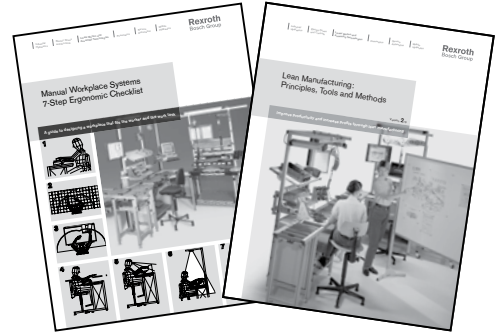
Section 11: Ergonomic Workplace Equipment

Overview

Quick and easy access to parts is made possible by the wide variety of trays, bins, and framing components available from Bosch Rexroth. Individual workstation grab trays, containers, and ledges place parts within easy reach of workers, and mobile tool carts permit the transport of parts from one work area to another.

Bosch Rexroth also publishes a 7-Step Ergonomic Checklist that will help you design a workplace that fits the worker to the task.

The "Lean Manufacturing" guidebook provides valuable information that will help you increase profits through lean manufacturing. These documents are available through your local Bosch Rexroth Structural Framing Distributor.



7-Step Ergonomic Checklist

Lean Manufacturing Guidebook

Worktables

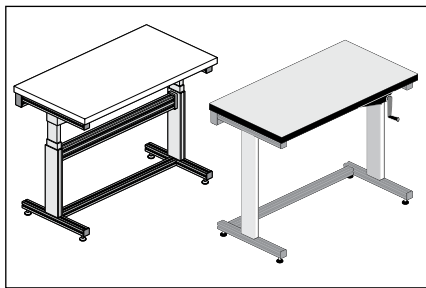
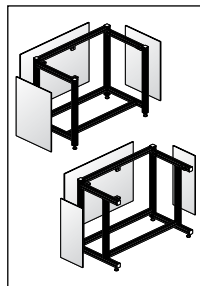
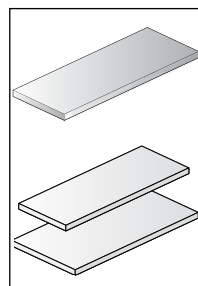


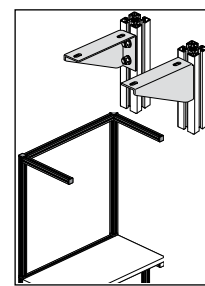
Table Frames and Adjustable Height Manually Operated Components
11-4 & 11-6



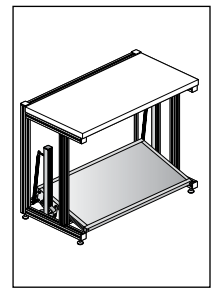
Side Panel Kits
11-6



Tabletops
11-7

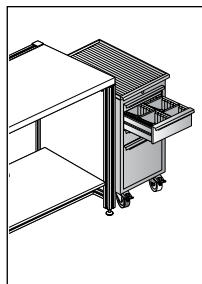


Extension Struts, Posts, Uprights & Shelf Brackets
11-8 & 11-9

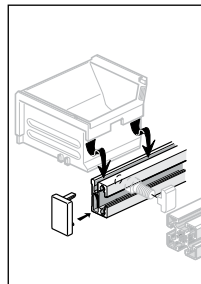


Footrests
11-10

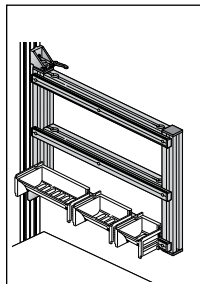
Storage and Grab Containers



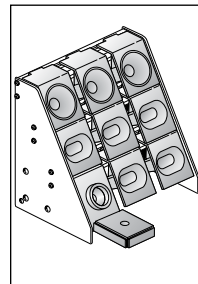
Drawer Cabinets
11-11



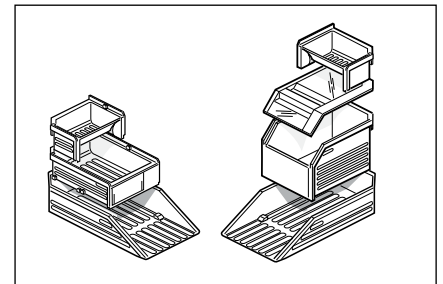
Hanging Profile
11-12



Support Frame
11-12

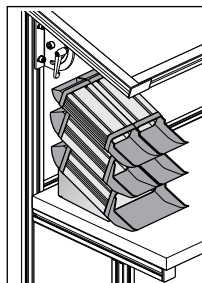


Tool/Bin Rack & Tool Holders
11-13

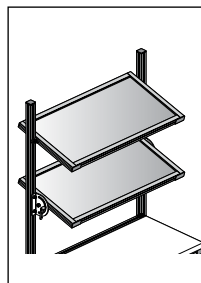


Grab Containers, Trays, Ledges, & Accessories
11-14 to 11-16

Storage and Grab Containers

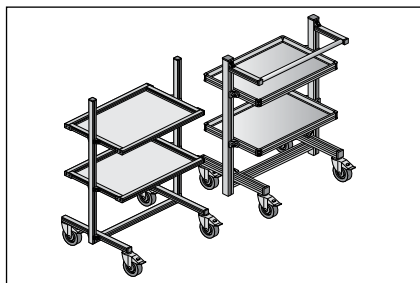


VarioGrab Containers
11-17

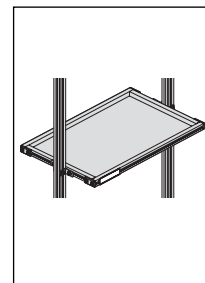


Adjustable Shelves
11-18

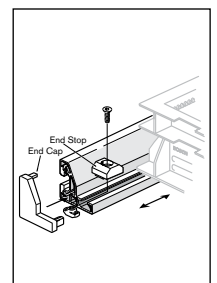
Tool and Material Shuttles



Tool/Material Shuttles & Components
11-19 to 11-22



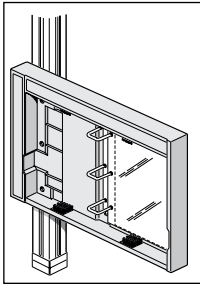
Lettering Clips
11-23



45x45T Tray Profile
11-23

Section 11: Ergonomic Workplace Equipment

Information Presentation

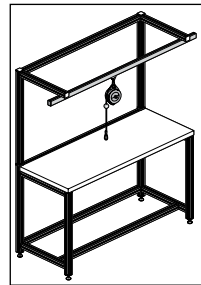


Information Board
11- 24

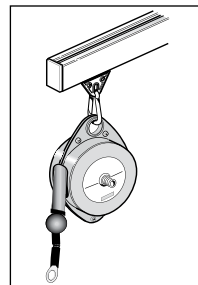


Wall Boards & Bulletin Boards
11- 24 & 11- 25

Tool Management

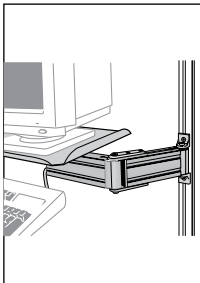


Tool Rail Kits & Components
11- 26



Tool Balancers
11- 27

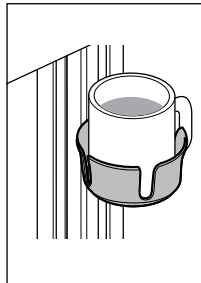
Comfort and Convenience Accessories



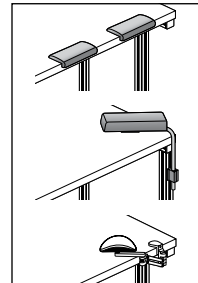
Monitor Arm Kit
11- 28



Flat Panel Monitor Arm Bracket
11- 28

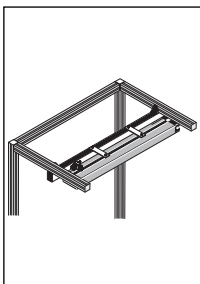


Cup, Bottle & Cloth Holders
11- 29

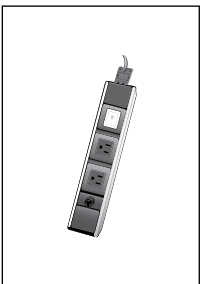


Armrests
11- 30

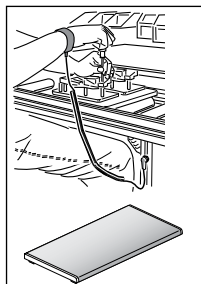
Electrical and ESD Components



Overhead Lamp with Electronic Ballast
11- 31

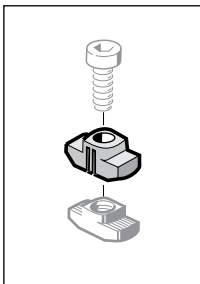


Power Strips
11- 32

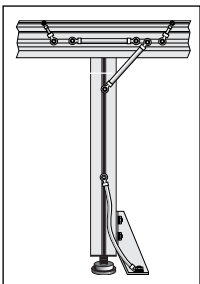


ESD Grounding Strap & Protective Mat
11- 33

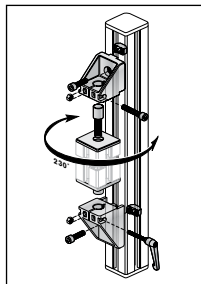
Other Workstation Components



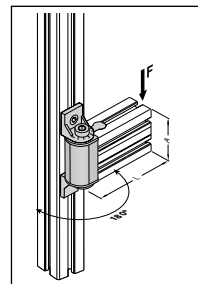
Isolation Cap for 8mm T-Nuts
11- 34



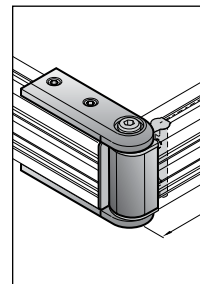
ESD Grounding Strap
11- 34



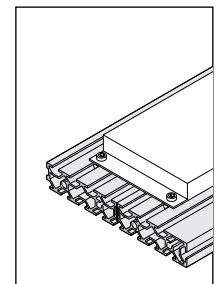
Swivel Hanger Kit
11- 35



Pivot Joint Kit
11- 36



Swivel Arm Joint Kits
11- 37



Fixture Plate Components
11- 38

Section 11: Ergonomic Workplace Equipment

Choosing and Equipping a Worktable

Getting started

Bosch Rexroth makes it easy to design and equip ergonomic worktables tailored to your specific application.

A wide selection of frames, tabletops, footrests, and accessories is available to create an efficient and flexible workplace. Ergonomic design ensures maximum comfort and safety.

Step 1: Select a table frame

Choose the table frame and size that is best suited for your application. Adjustable Height frames are ideal for workstations where the worker must stand or change between standing and sitting positions. VarioFrame table frames can be custom-ordered to your specific needs for height, length, and width. Or choose from our economy fixed-size Box Type and Desk Type table frames. Extension struts can be added to hold parts bins, tool hangers, lights, etc.

Step 2: Select a tabletop

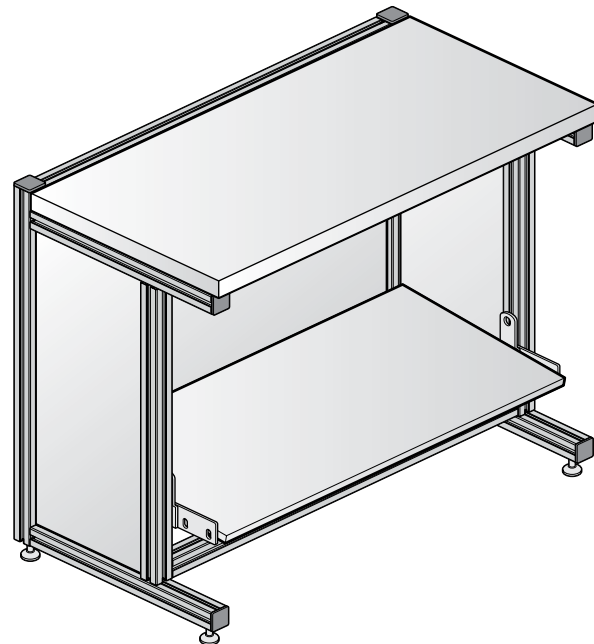
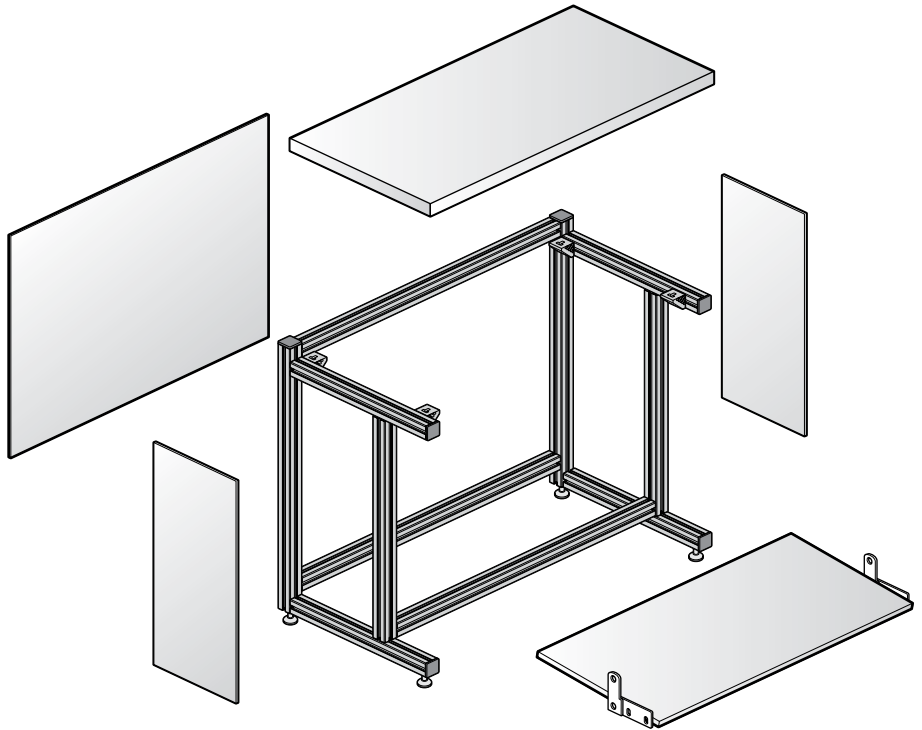
Choose from economy, standard, or ESD tabletops, depending on your application.

Step 3: Select a footrest

Workstations where the worker will stand at all times don't typically require a footrest. However, a footrest is an ergonomic must for any seated worker, and should also be considered for workstations where the worker will alternate between standing and sitting. Choose between fixed Economy and adjustable Universal Footrests.

Step 4: Add side panels

You may wish to add side panels to your worktable. Side panels are not a structural necessity, but instead function as modesty panels or a splash/dust guard. They also help provide a more finished appearance.



Section 11: Ergonomic Workplace Equipment

Step 5: Accessories

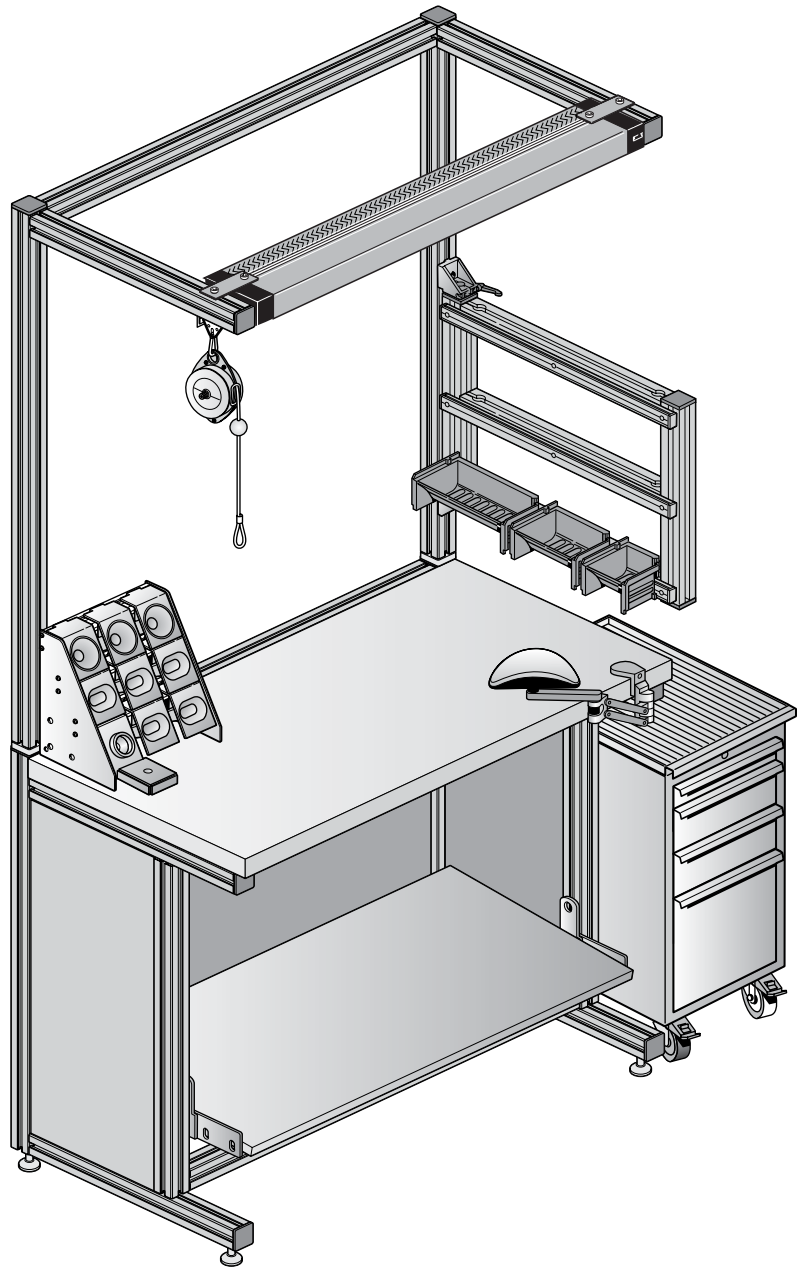
Bosch Rexroth offers a wide selection of accessories to customize worktables and maximize ergonomics.

Arm rests reduce shoulder and wrist strain from repetitive operations.

Bin wings, case holders, material shuttles, and grab trays and containers keep parts and equipment readily at hand.

Tool hangers and balancers, power strips, and swiveling tool arms provide quick access to tools to maximize safety and efficiency.

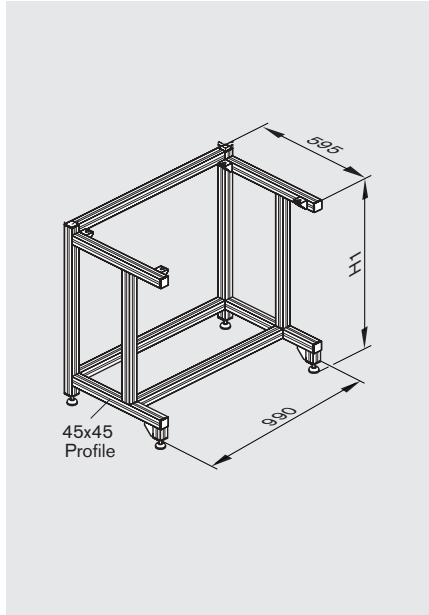
Other accessories, such as bulletin boards, ESD ground straps, fixture plates, bottle and cloth holders, and much more, help maximize ergonomics and efficiency.



Section 11: Ergonomic Workplace Equipment

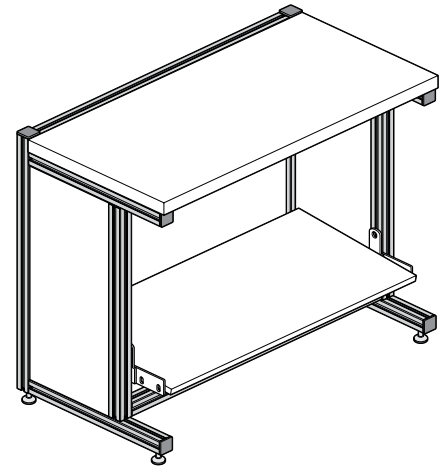
Worktables

Desk-Type Table Frame ¹⁰



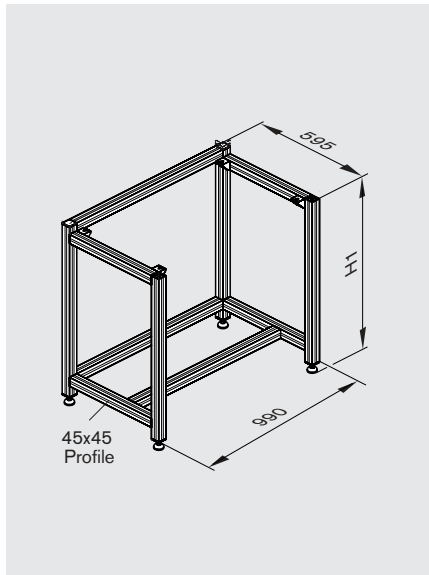
Features:

- Standard sized platform for mounting a tabletop, conveyor section, or other equipment
- Recessed front legs help prevent seated workers from bumping knees
- Features 10mm T-slots to allow easy installation of accessories
- Supports centered loads of 450 lbs. and distributed loads up to 900 lbs. when used with Bosch Rexroth standard or ESD tabletops
- Leveling feet allow 25mm height adjustment range
- 900mm height is ergonomically correct for average standing woman; 1000mm height is ergonomically correct for an average standing man



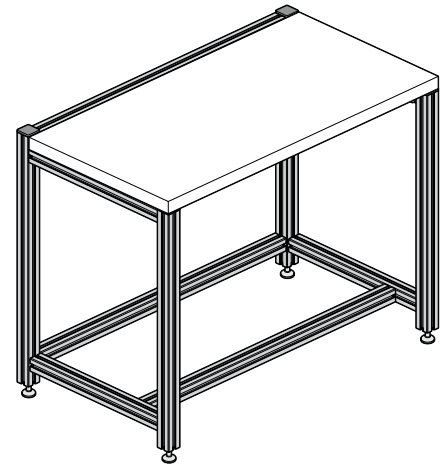
Description	Lot Size	Part Number
Desk-Type Table Frame, 900mm height	1	3 842 537 249
Desk-Type Table Frame, 1000mm height	1	3 842 537 250

Box-Type Table Frame ¹⁰



Features:

- Standard sized platform for mounting a tabletop, conveyor section, or other equipment
- Features 10mm T-slots to allow easy installation of accessories
- Supports centered loads of 450 lbs. and distributed loads up to 900 lbs. when used with Bosch Rexroth standard or ESD tabletops
- Leveling feet allow 25mm height adjustment range
- 900mm height is ergonomically correct for average standing woman; 1000mm height is ergonomically correct for an average standing man



Description	Lot Size	Part Number
Box-Type Table Frame, 900mm height	1	3 842 537 251
Box-Type Table Frame, 1000mm height	1	3 842 537 252

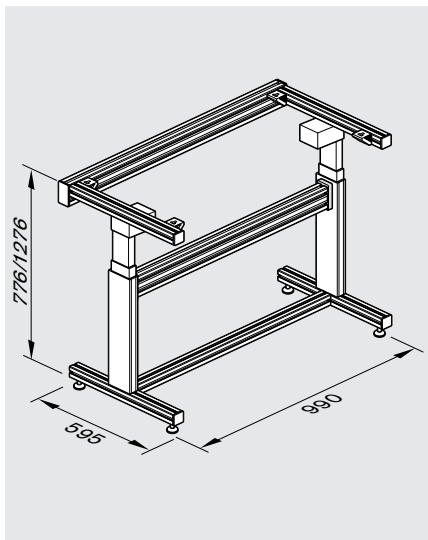
Custom Table Frames

Can't find a worktable in the right size for your application? Your local Bosch Rexroth distributor can assist you in creating a custom worktable that meets your specific requirements.

Simply call your local distributor, or visit our website at: www.boschrexroth-us.com/framing and download MPScalc and Design your own custom workstation.

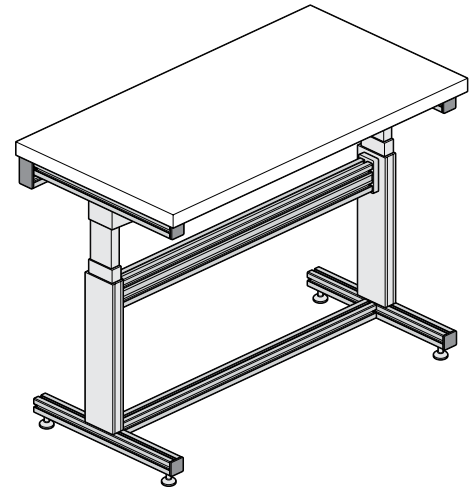
Section 11: Ergonomic Workplace Equipment

Adjustable Height Table Frame Kit 



Features:

- Two electric motors with synchronizing control raise and lower the table top to adjust to different working heights
- 500mm adjustment range can ergonomically accommodate body sizes from the 5th to 95th percentile
- Easy push button control, operates on standard 110 VAC, 60 Hz current
- Easily supports distributed loads of 450 lbs. when used with Bosch Rexroth standard or ESD tabletops
- Leveling feet allow adjustment for irregular floor surfaces
- Mounting bar across the rear of the frame allows installation of accessory uprights and other components

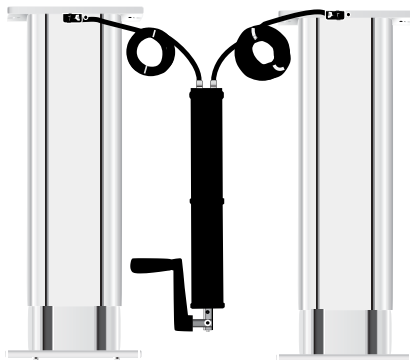


Description	Lot Size	Part Number
Adjustable height table kit, frame and lift unit	1	8 981 021 140*
Telescoping actuator set only (incl. controls & cables)	1	8 981 021 127
Actuator mounting plate	1	8 981 021 129
Actuator mounting template	1	8 981 500 290

* 2 Actuator mounting plates and 1 actuator mounting template included

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Adjustable Height Manually Operated Components 



Features:

- System ships fully charged and ready-to-install
- Smooth, quiet operation
- Flexible tubing: 1" bend radius
- Five revolutions per inch travel
- Retractable handle
- Capacity: 250 lbs (113 kgs per cylinder) per column - 500 lbs total (226 kgs total)
- Adjustment range 12" (305mm)
24" (610mm) fully retracted
36" (914mm) fully extended

Material:

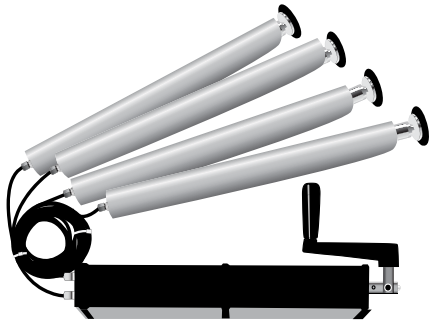
- extruded aluminum with clear matte anodized finish



Description	Lot Size	Part Number
Adjustable Height Manually Operated System	1	R 980 024 916

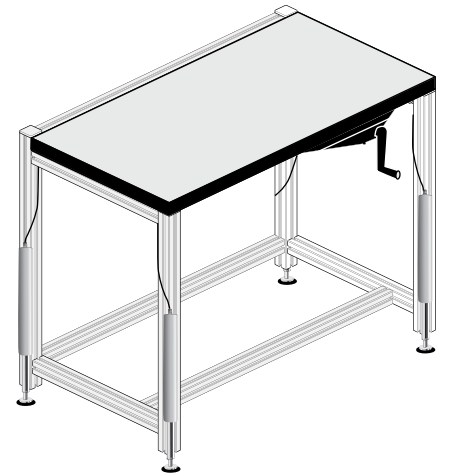
Section 11: Ergonomic Workplace Equipment

Adjustable Height Manually Operated Components



Features:

- System capacity: 250 lbs (113 kgs per cylinder, 1,000 lbs (452 kg) total
- Weight: Typical 4 post manual unit with 12 inch stroke cylinder: 27 lbs (12.25 kg)
- Smooth, quiet operation
- System ships fully charged and ready-to-install
- Flexible tubing: 1" bend radius
- System must be guided
- Retractable handle
- Five revolutions per inch travel



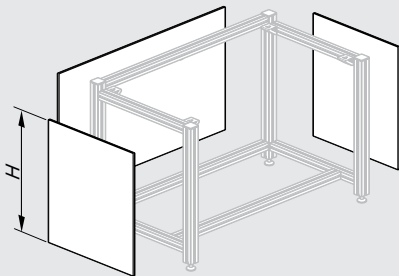
Material:

- Powder coated housing finish

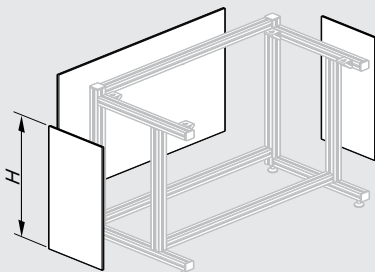
Description	Lot Size	Part Number
Adjustable Height Manually Operated System	1	R 980 024 917

Side Panel Kits

Box-type



Desk-type

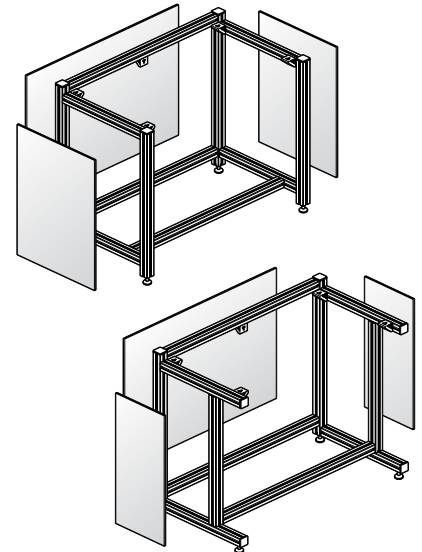


Features:

- Available for standard box-type and desk-type table frames
- Suitable for use as modesty panels or splash guard
- Attach quickly and easily using Vari-oFix connectors (included); can be retrofitted to worktables at any time
- Available in basic, ESD and economic versions
- Fits 990mm wide table frames

Material:

- Economic, light gray coated hardboard 3.0mm thick
- Basic: aluminum sandwich panel 2.0mm thick
- ESD: dusty gray sheet steel 2.0mm thick

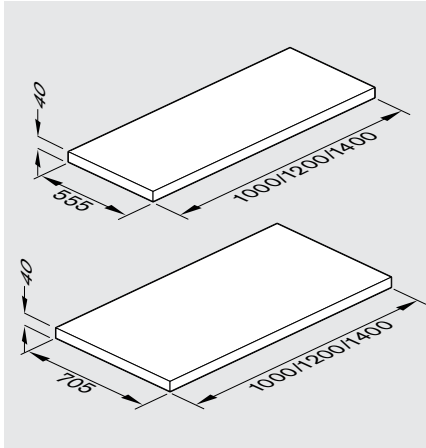


Description	Lot Size	Part Number
Box-type side panel kit, 900mm, ESD	1	3 842 537 080
Box-type side panel kit, 900mm (Economic)	1	3 842 537 072
Box-type side panel kit, 1000mm, ESD	1	3 842 537 081
Box-type side panel kit, 1000mm (Economic)	1	3 842 537 073
Desk-type side panel kit, 900mm, ESD	1	3 842 537 078
Desk-type side panel kit, 900mm (Economic)	1	3 842 537 070
Desk-type side panel kit, 1000mm, ESD	1	3 842 537 079
Desk-type side panel kit, 1000mm (Economic)	1	3 842 537 071

Section 11: Ergonomic Workplace Equipment

Worktables

Standard Tabletops

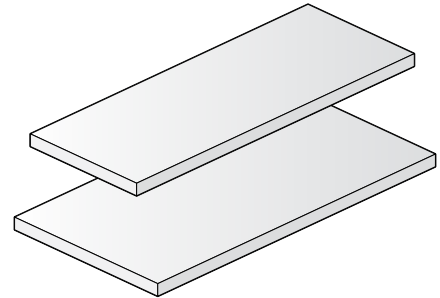


Features:

- Basic: Supports centered loads of 450 lbs and distributed loads up to 900 lbs. (depending on table frame).
- Economic: For worktables where lighter loads are used
- Includes wood screws and washers for mounting

Material:

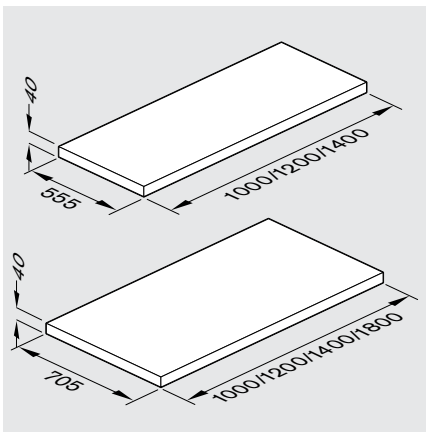
- Light gray hard-coated chipboard with plastic wear strip on edge
- Surface layer thickness 0.1 mm (Economic)
- Surface layer thickness 0.8mm (Basic)



Description	Lot Size	Part Number
Basic tabletop, 555x1000mm	1	3 842 535 489
Basic tabletop, 555x1200mm	1	3 842 535 490
Basic tabletop, 555x1400mm	1	3 842 535 491
Economic tabletop, 555x1000mm	1	3 842 535 470
Economic tabletop, 555x1200mm	1	3 842 535 471
Economic tabletop, 555x1400mm	1	3 842 535 472
Economic tabletop, 705x1000mm	1	3 842 535 473
Economic tabletop, 705x1200mm	1	3 842 535 474
Economic tabletop, 705x1400mm	1	3 842 535 475

11

ESD Tabletops

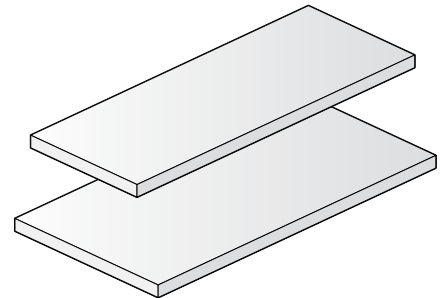


Features:

- Supports centered loads of 450 lbs. and distributed loads up to 900 lbs. (depending on table frame)
- Volume resistivity (R_v) is 10^5 to 10^7 ohm-centimeters
- Includes wood screws and washers for mounting

Material:

- Light gray laminate covered volume conductive chipboard
- Surface layer thickness 0.1 mm (Economic)
- Surface layer thickness 0.8mm (Basic)

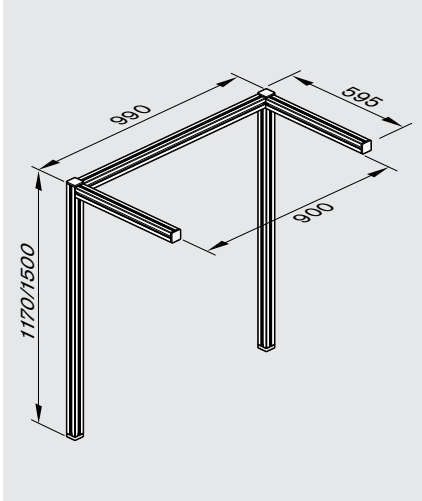


Description	Lot Size	Part Number
Economic ESD tabletop, 555x1000mm	1	3 842 535 476
Economic ESD tabletop, 555x1200mm	1	3 842 535 477
Economic ESD tabletop, 555x1400mm	1	3 842 535 478
Economic ESD tabletop, 705x1000mm	1	3 842 535 479
Economic ESD tabletop, 705x1200mm	1	3 842 535 480
Economic ESD tabletop, 705x1400mm	1	3 842 535 481
Basic ESD tabletop, 555x1000mm	1	3 842 535 482
Basic ESD tabletop, 555x1200mm	1	3 842 535 483
Basic ESD tabletop, 555x1400mm	1	3 842 535 484

Section 11: Ergonomic Workplace Equipment

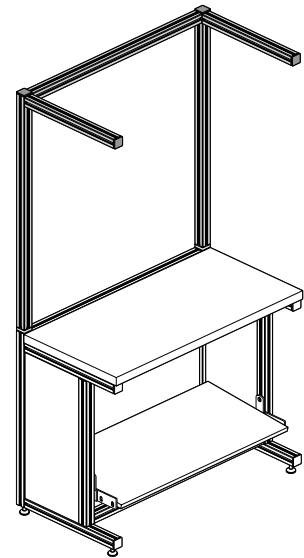
Worktables

Extension Strut Kits



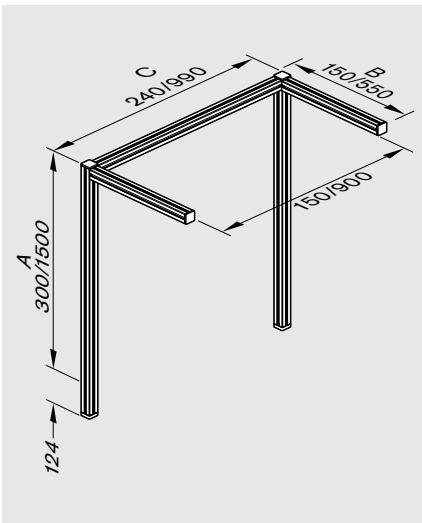
Features:

- Provides a frame for mounting tool hangers, powerstrips, bins, lights, and other accessories
- Features 10mm T-slots to allow easy installation of accessories
- Two standard heights available: 1200mm and 1500mm
- Designed to fit standard 990mm wide desk-type and box-type table frames
- Easy installation; mounting hardware included



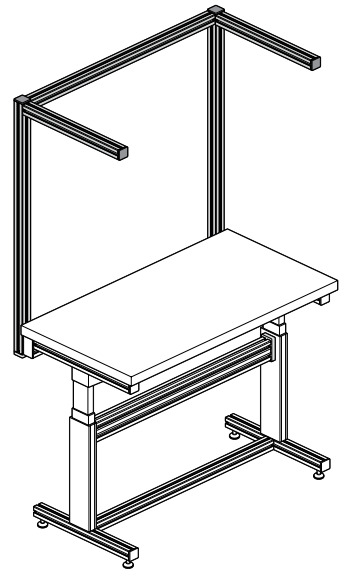
Description	Lot Size	Part Number
Extension strut kit, 1200mm	1	3 842 519 530

Accessory Uprights



Features:

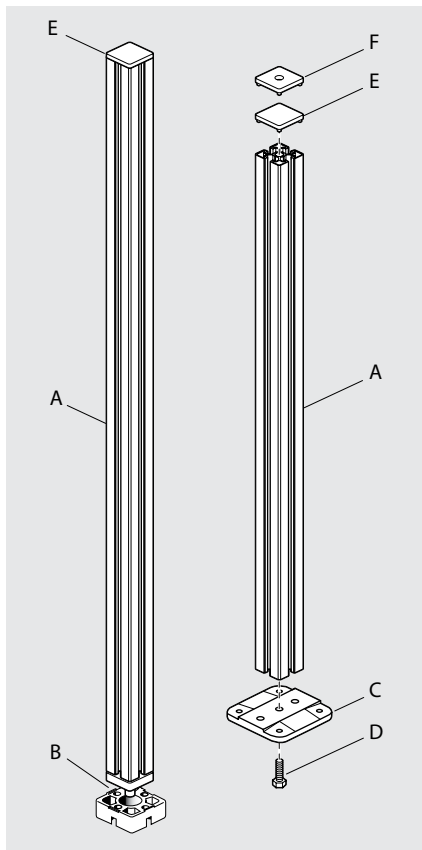
- Create custom extension struts for adjustable height table frames
- Provides a support for mounting lamps, tool hangers, power strips, parts bins, etc.
- Accessory Upright (A) available in 1mm increments from 300mm to 1500mm above worktable surface (actual length includes additional 124mm for mounting to table) Includes end caps and mounting hardware
- Lamp/Tool Extension (B) holds tool hangers, lamps, etc. and attaches to the upright Available in 1mm increments from 150mm to 550mm Includes end cap and mounting hardware
- Cross Piece (C) is used to stabilize uprights and provide a mounting structure for power strips, bins, etc.
- Available in 1mm increments from 150mm to 900mm
- Includes mounting hardware



Description	Lot Size	Part Number
A Accessory upright, specify $L \geq 300\text{mm} \leq 1500\text{mm}$	1	8 981 992 300/ __mm
B Lamp/tool extension, specify $L \geq 150\text{mm} \leq 550\text{mm}$	1	8 981 992 301/ __mm
C Cross piece, specify $L \geq 150\text{mm} \leq 900\text{mm}$	1	8 981 992 302/ __mm

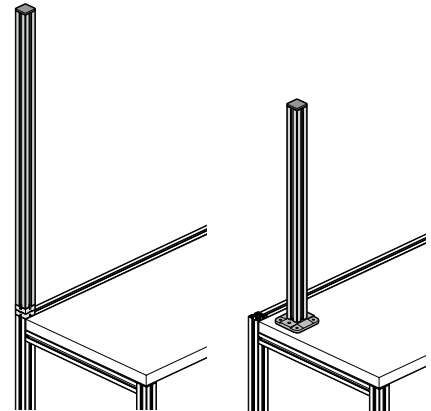
Section 11: Ergonomic Workplace Equipment

Extension Post



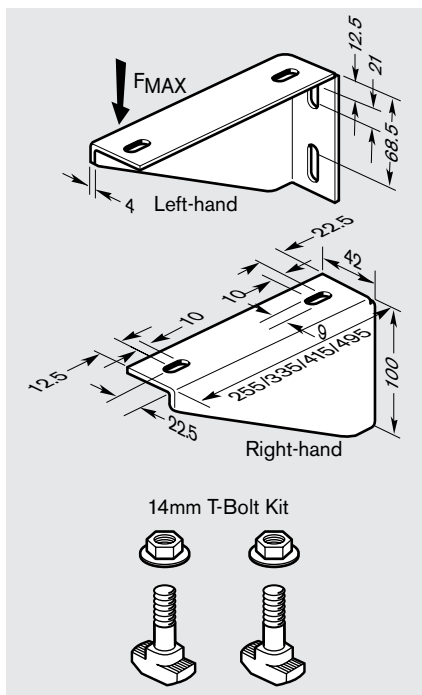
Features:

- Used to retrofit an existing worktable with a single upright
- Ideal for installing 180° or 360° tool hangers, bin wings, etc.
- Specify desired length of 45x45H upright post
- Can be mounted to the existing table frame using a 45x45 end connector kit (B) or to the tabletop with a 135x135 base plate (C)
- Be sure to order S12x30 connection screw (D) when using base plate
- End cap provides clean, finished appearance; end cap with hole available for use with 360° tool hanger



Description	Lot Size	Part Number
A Vertical extension post, specify length $\geq 150\text{mm} \leq 2000\text{mm}$	1	3 842 990 520/ __mm
B 45x45 end connector kit	1	3 842 191 175
C 135x135 base plate	1	3 842 516 175
D S12x30 connection screw, hex-socket head	1	8 981 021 302
E End cap, 45x45, black	1	3 842 502 674
F End cap with hole, 45x45, black	1	3 842 523 442

Shelf Brackets

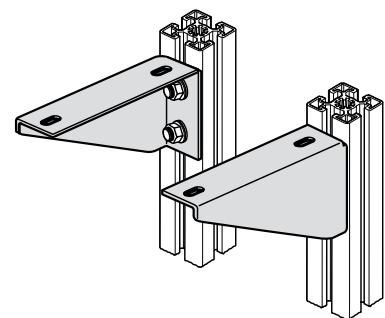


Features:

- Used to attach shelves and tabletops to profiles with 10mm T-slots; includes two 14mm T-bolt kits
- Four standard lengths available in both left-hand and right-hand versions

Material:

- Sheet metal, gray powder coated

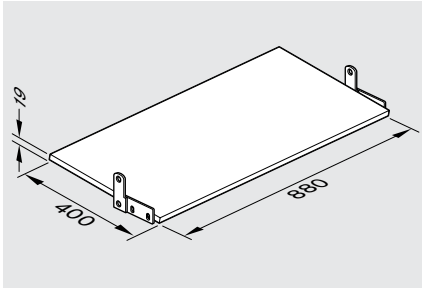


Description	Fmax	Lot Size	Part Number
Shelf bracket, 255mm long, left-hand	40Nm	1	3 842 536 119
Shelf bracket, 255mm long, right-hand	40Nm	1	3 842 536 120
Shelf bracket, 335mm long, left-hand	30Nm	1	3 842 536 121
Shelf bracket, 335mm long, right-hand	30Nm	1	3 842 536 122
Shelf bracket, 415mm long, left-hand	24Nm	1	3 842 536 123
Shelf bracket, 415mm long, right-hand	24Nm	1	3 842 536 124
Shelf bracket, 495mm long, left-hand	20Nm	1	3 842 536 125
Shelf bracket, 495mm long, right-hand	20Nm	1	3 842 536 126

Section 11: Ergonomic Workplace Equipment

Worktables

Economic Footrest

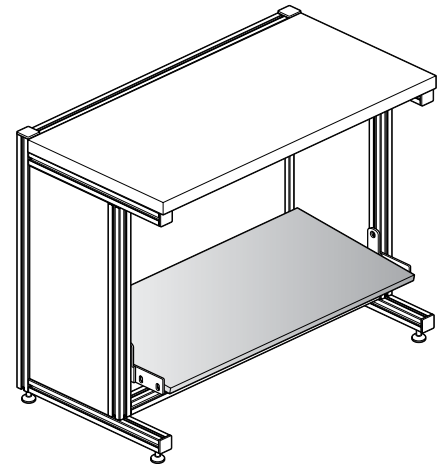


Features:

- Mounts easily to either desk-type or box-type table frames
- Attaches to the vertical T-slots in the worktable legs to allow for height adjustment (hex key required)
- Side plates can also be ordered separately to construct custom footrests

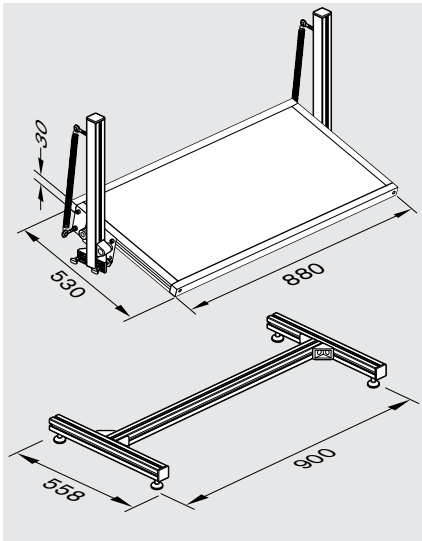
Material:

- Footrest: Hard-coated gray laminate over chipboard
- Side plates: galvanized steel



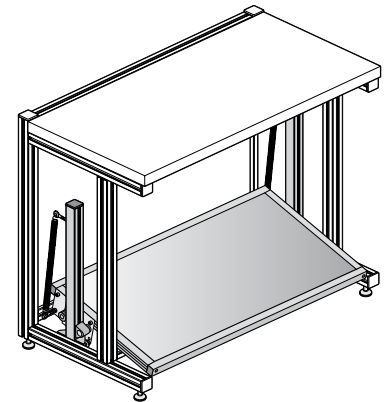
Description	Lot Size	Part Number
Economic footrest	1	3 842 538 771
Economic footrest, ESD	1	3 842 538 772
Side plate, R.H.	1	3 842 512 322
Side plate, L.H.	1	3 842 512 323

Basic Footrest



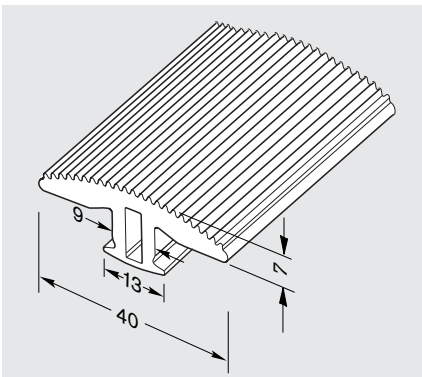
Features:

- Mounts easily to either desk-type or box-type table frames, or can be used freestanding with the optional support frame
- Adjusts up or down with a simple foot movement
- Available in standard or ESD versions



Description	Lot Size	Part Number
Basic footrest, standard	1	3 842 519 735
Basic footrest, ESD	1	3 842 538 409
Basic footrest support frame	1	3 842 521 013

Rubber Profile Footrest

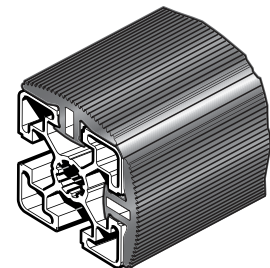




Features:

- Designed to prevent exposed hard edges
- Simple, cost-efficient alternative to other footrests
- Use on 40x40 and 45x45 profile

Material:

- EPDM



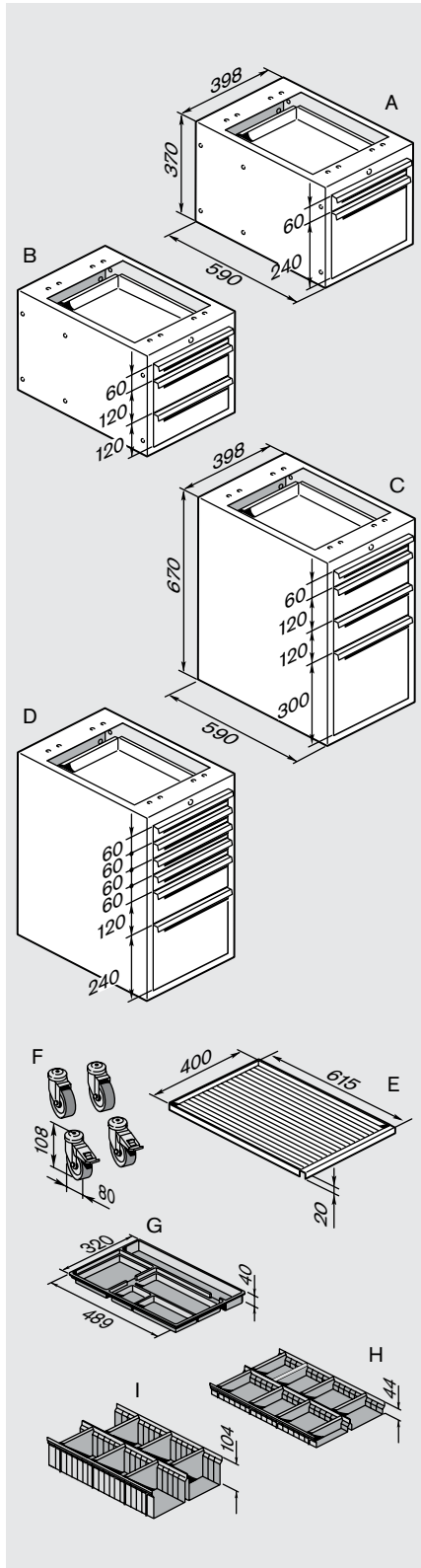
Description	Lot Size*	Part Number
Rubber profile footrest, L= 2000mm 	10	3 842 537 135
Rubber profile footrest, specify length $\geq 30\text{mm} \leq 2000\text{mm}$ 	1	3 842 994 979/_mm

* For smaller quantities, please contact your local distributor.

Section 11: Ergonomic Workplace Equipment

Storage and Grab Containers

Drawer Cabinets



Features:

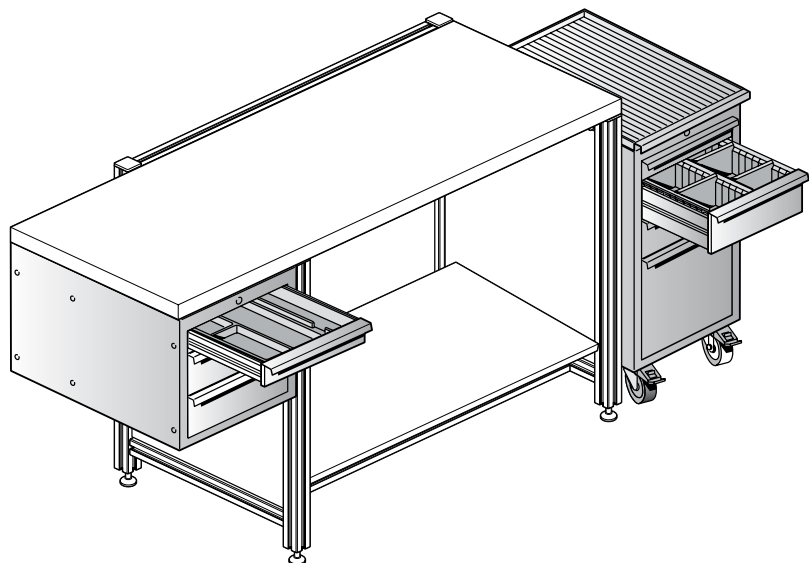
- Provide lockable storage for tools, documentation, etc.
- Ball-bearing drawer slides ensure smooth, effortless drawer movement
- Made with heavy-duty enameled sheet steel for maximum strength and durability
- Two and three drawer cabinets can be mounted to standard table frames

Accessories:

- Four and six drawer cabinets accept optional cabinet tops with non-slip rubber surfaces
- Optional caster set features four swiveling casters (two locking, two non-locking) with polyamide rims and non-marking rubber wheels
- Add plastic or galvanized steel drawer dividers to optimize storage space

Description	Lot Size*	Part Number
A Two-drawer cabinet, 370x398mm	1	3 842 513 491
B Three-drawer cabinet, 370x398mm	1	3 842 513 492
C Four-drawer cabinet, 670x398mm	1	3 842 513 493
D Six-drawer cabinet, 670x398mm	1	3 842 513 494
E Cabinet top, 20x400mm	1	3 842 512 596
F Caster set	4	3 842 513 490
G Drawer divider, plastic, 40x320mm	1	3 842 513 495
H Drawer divider, steel, 44x320mm	1	3 842 513 496
I Deep drawer divider, steel, 104x320mm,	1	3 842 513 497

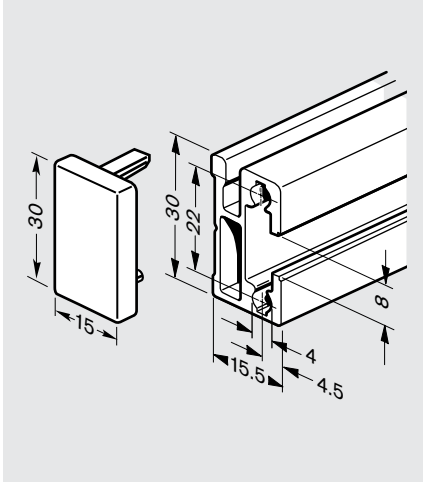
* For smaller quantities, please contact your local distributor.



Section 11: Ergonomic Workplace Equipment

Storage and Grab Containers

Hanging Profile (15x30)

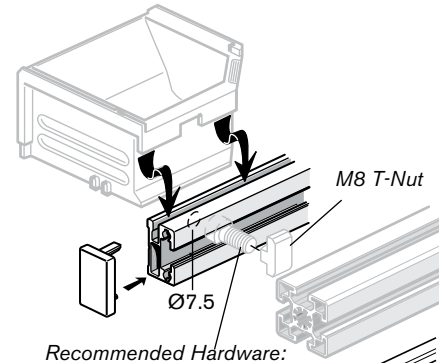


Features:

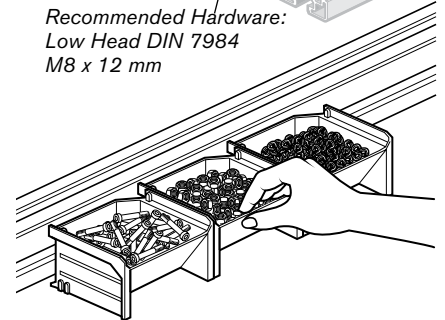
- Hang parts bins, tool holders, and grab containers within easy reach; mounts easily to extension struts, cross pieces, etc. (mounting hardware not included)
- Available with clear anodized surface for standard applications, or conductive surface for ESD applications
- Optional ESD safe end caps available separately


Material:

- Profile: anodized (standard) or conductive (ESD) aluminum
- End cap: conductive black polyamide 12

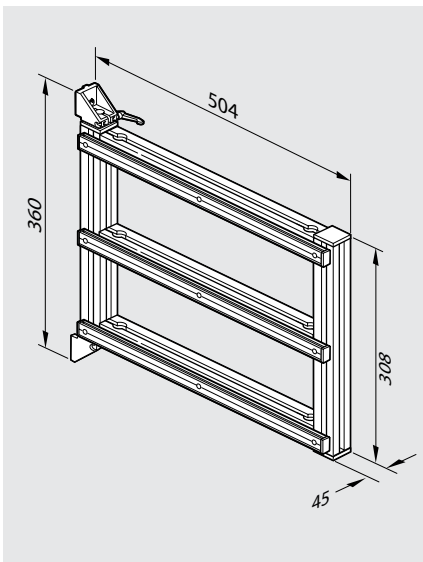


Recommended Hardware:
Low Head DIN 7984
M8 x 12 mm



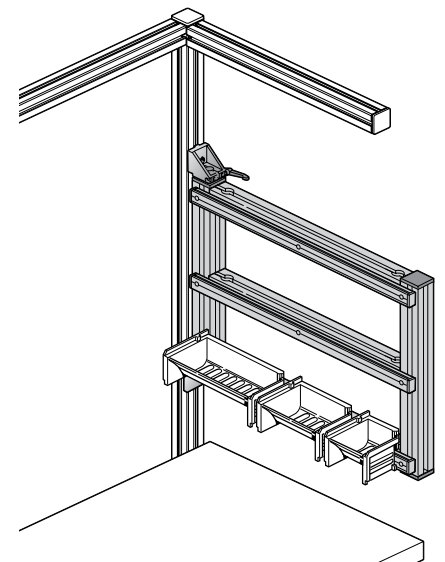
Description	Lot Size	Part Number
Clear anodized hanging profile, 3000mm long	1	3 842 537 680
Conductive hanging profile, 3000mm long 	1	3 842 537 682
End cap for 15x30 profile	1	3 842 338 990

Bin Wing for Workstations



Features:

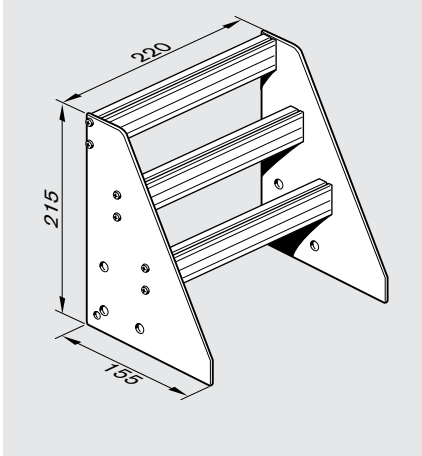
- Made with hanging profile to allow quick installation of parts bins and tool holders
- Organize parts and tools for improved safety and ergonomics
- Mounts to extension struts or accessory uprights
- Swivels to adjust to different worker sizes/reach or to move it out of the way, if needed
- Three levels provide ample storage for parts bins and/or tool racks



Description	Lot Size	Part Number
Support frame	1	8 981 529 422

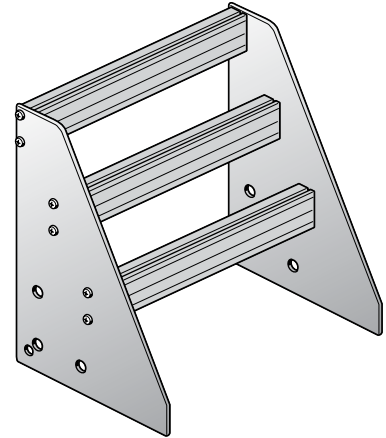
Section 11: Ergonomic Workplace Equipment

Tool/Bin Rack



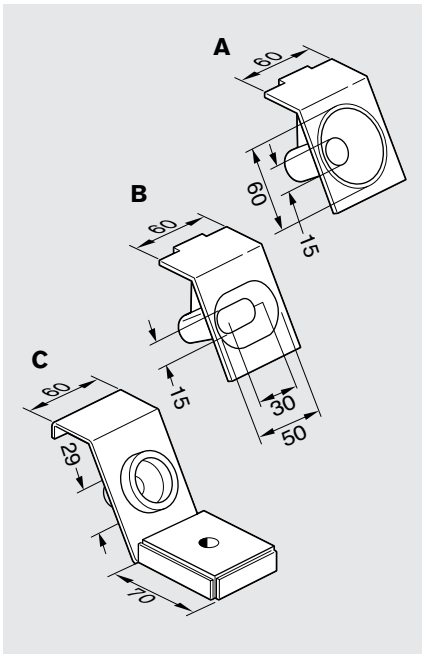
Features:

- Made with hanging profile to allow quick installation of parts bins and tool holders
- Organize parts and tools for improved safety and ergonomics
- Freestanding construction allows use on any worktable
- Three levels provide ample storage for parts bins and/or tool racks



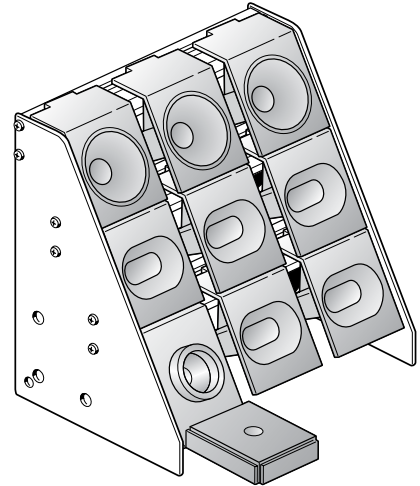
Description	Lot Size	Part Number
Tool/bin rack	1	3 842 514 519

Tool Holders 



Features:

- Three styles available:
 - A** Screwdriver holder
 - B** Pliers holder
 - C** Soldering iron holder
- Provides better workplace organization to enhance safety and ergonomics
- Conveniently store most small tools while allowing quick and easy access
- Clip easily to hanging profile (15x30), to tool/bin racks, and bin wings
- ESD safe



Description	Lot Size	Part Number
A Screwdriver holder	1	3 842 514 522
B Pliers holder	1	3 842 514 523
C Soldering iron holder	1	3 842 514 524

Section 11: Ergonomic Workplace Equipment

Storage and Grab Containers

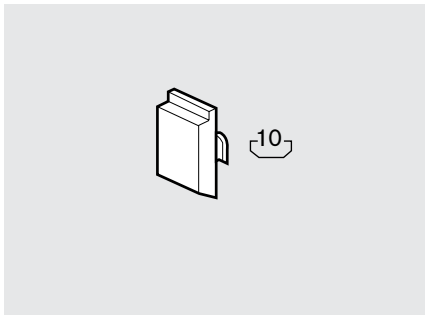
Plastic Grab Containers, Trays, and Ledges

Plastic grab containers, trays, and ledges keep smaller piece parts readily at hand. Available in ESD (black) or standard (gray) versions, and resistant to a wide variety of chemicals, they are suitable for virtually any application.

An ergonomic design with a contoured bottom and specially shaped front minimizes wrist flexing and makes it easy to pick individual parts—even small, flat parts. They can be stacked together to optimize space usage, and grab containers include covers to prevent parts spillage and contamination.

All grab containers, trays, and ledges attach easily to hanging profile (15x30), tool/bin racks, and bin wings. They can also be attached to any standard profile with 10mm T-slots using container hangers (sold below).

Container Hangers

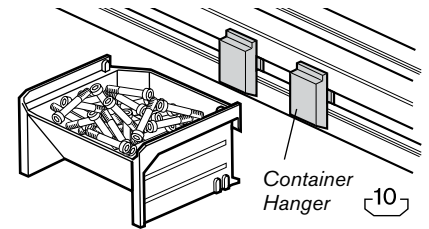


Features:

- Allows use of grab trays, ledges, and containers with any standard profile with 10mm T-slots
- Easy twist-lock installation

Material:


- Black polyamide



Description	Lot Size*	Part Number
Container hangers	10	3 842 530 304

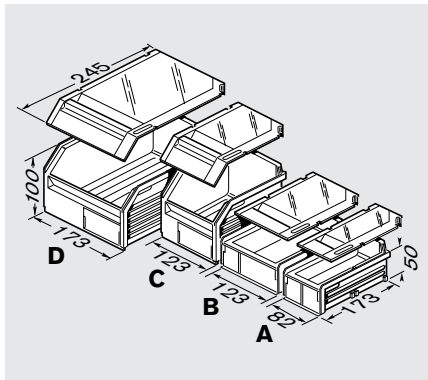
* For smaller quantities, please contact your local distributor.

Plastic Container Technical Data

	Standard Containers	Container Covers	ESD  Containers
Material	ABS plastic	Polycarbonate	Polyamide 66-CF, PA 12-C
Surface Resistivity	10 ¹⁴	10 ¹⁵	10 ⁶
Volume of Resistance	10 ¹⁴ cm	10 ¹⁵ cm	10 ⁶
Ambient Temperature			
Minimum:	-40°C	-40°C	-40°C
Maximum:	70°C	115°C	90°C
Resistant to:	weak acids, caustic solutions, alcohols, oils, grease, water	diluted acids and caustic solutions, alcohol (except methanol), oils, grease, glycol, water	weak caustic solutions, solvents, grease, oils, gasoline, benzene, diester, oil, ketones, water

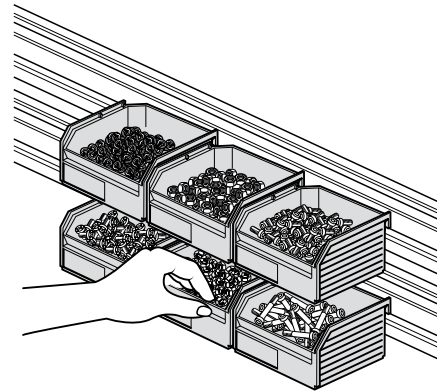
Section 11: Ergonomic Workplace Equipment

Plastic Grab Containers 











Features:

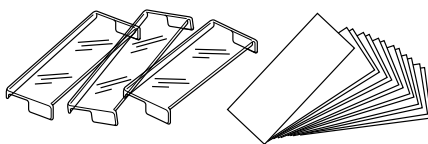
- Hold small parts at the workstation to allow easy access
- Can be stacked with other grab trays, grab containers, and grab ledges to optimize space usage
- Ergonomic bottom contours and front edge make it easy to pick up individual parts, even small, flat parts
- Three standard widths available: 82mm, 123mm, and 173mm
- Available in standard and ESD-safe versions



Grab Container HxW (mm)	Volume (cm ³)	Ref.	Color	ESD
50x82	370	A	Gray	No
50x82	370	A	Black	Yes
50x123	600	B	Gray	No
50x123	600	B	Black	Yes
100x123	1370	C	Gray	No
100x123	1370	C	Black	Yes
100x173	3050	D	Gray	No
100x173	3050	D	Black	Yes

Description	Lot Size	Part Number
A Grab container, 50x82, standard	1	3 842 344 750
A Grab container, 50x82, ESD 	1	3 842 346 280
Cover for A , clear, standard	1	3 842 344 756
Cover for A , black, ESD 	1	3 842 346 286
B Grab container, 50x123, standard	1	3 842 344 751
B Grab container, 50x123, ESD 	1	3 842 346 281
Cover for B , clear, standard	1	3 842 344 757
Cover for B , black, ESD 	1	3 842 346 287
C Grab container, 100x123, standard	1	3 842 344 752
C Grab container, 100x123, ESD 	1	3 842 346 282
Cover for C , clear, standard	1	3 842 344 758
Cover for C , black, ESD 	1	3 842 346 288
D Grab container, 100x173, standard	1	3 842 344 753
D Grab container, 100x173, ESD 	1	3 842 346 283
Cover for D , clear, standard	1	3 842 344 759
Cover for D , black, ESD 	1	3 842 346 289

Labels and Label Clips



Features:

- Transparent label clips attach easily to the front of grab containers
- White labels slide easily into clip
- Allow clear identification of parts and components

Material:

- Label clip: clear plastic

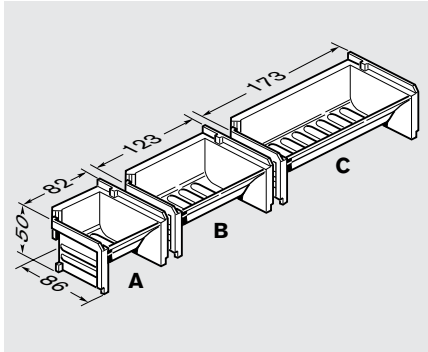
Description	Lot Size*	Part Number
Label clips with labels	10	3 842 536 127

* For smaller quantities, please contact your local distributor.

Section 11: Ergonomic Workplace Equipment

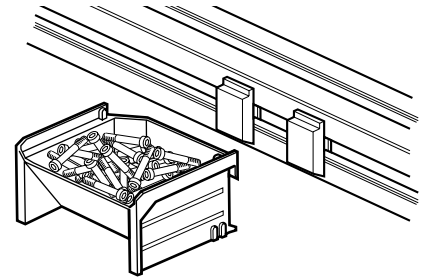
Storage and Grab Containers

Plastic Grab Trays






Features:

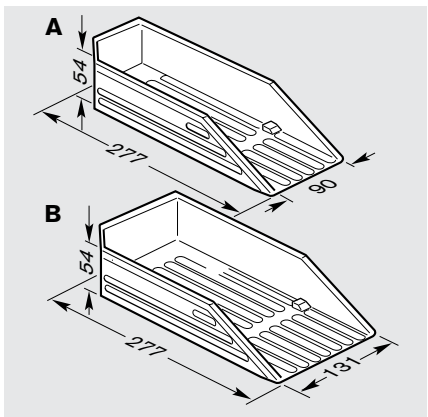
- Hold small parts at the workstation to allow easy access
- Can be stacked with other grab trays, grab containers, and grab ledges to optimize space usage
- Ergonomic bottom contours and front edge make it easy to pick individual parts, even small, flat parts
- Three standard widths available: 82mm, 123mm, and 173mm
- Available in standard and ESD-safe versions



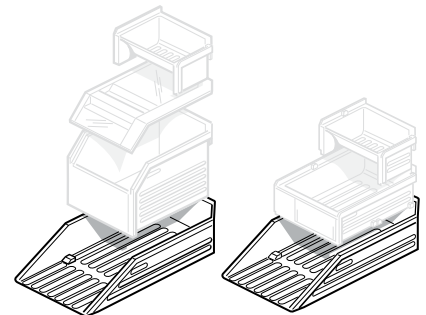
Grab Tray Width	Volume (cm ³)	Ref.	Color	ESD
82mm	150	A	Gray	No
82mm	150	A	Black	Yes
123mm	240	B	Gray	No
123mm	240	B	Black	Yes
173mm	360	C	Gray	No
173mm	360	C	Black	Yes

Description	Lot Size	Part Number
A Grab tray, 82mm wide, standard	1	3 842 344 764
A Grab tray, 82mm wide, ESD 	1	3 842 346 294
B Grab tray, 123mm wide, standard	1	3 842 344 765
B Grab tray, 123mm wide, ESD 	1	3 842 346 295
C Grab tray, 173mm wide, standard	1	3 842 344 766
C Grab tray, 173mm wide, ESD 	1	3 842 346 296



Plastic Grab Ledges



Features:

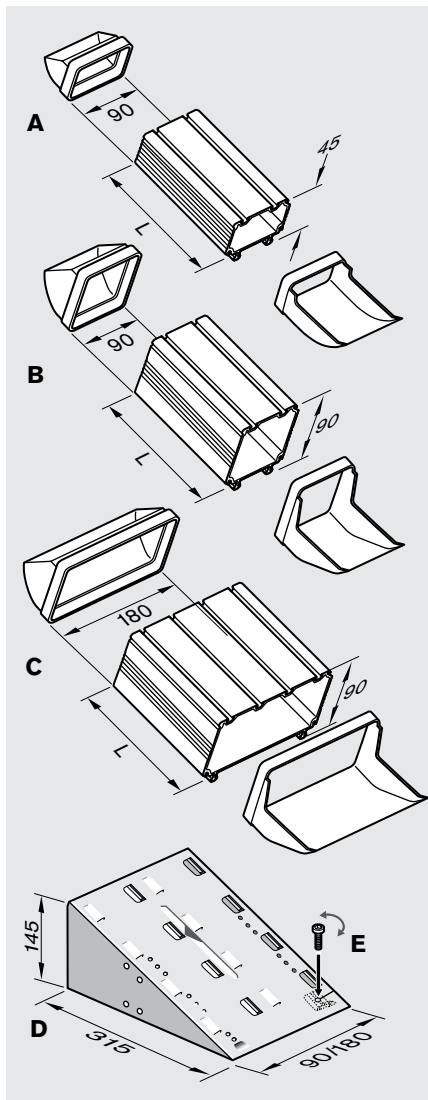


Grab Ledge Width	Volume (cm ³)	Ref.	Color	ESD
90mm	690	A	Gray	No
90mm	690	A	Black	Yes
131mm	1050	B	Gray	No
131mm	1050	B	Black	Yes

Description	Lot Size	Part Number
A Grab ledge, 90mm wide, standard	1	3 842 344 760
A Grab ledge, 90mm wide, ESD 	1	3 842 346 290
B Grab ledge, 131mm wide, standard	1	3 842 344 761
B Grab ledge, 131mm wide, ESD 	1	3 842 346 291

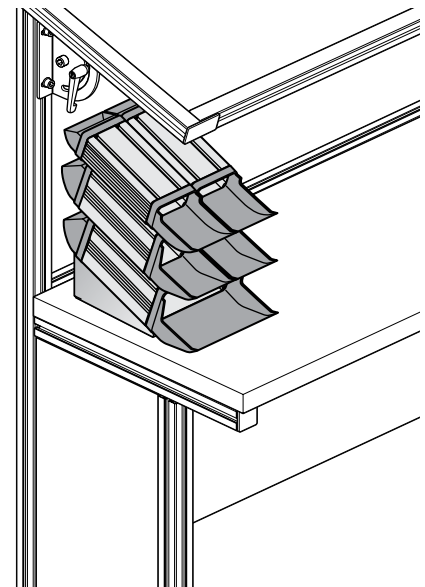
Section 11: Ergonomic Workplace Equipment

VarioGrab Containers



Features:

- Modular design allows creation of custom-sized grab containers
- Extruded aluminum profile can be cut-to-length to make containers to fit your volume or space requirements
- Easy-to-install end sets provide easy access to parts while minimizing wrist flex; all necessary hardware included
- Mating T-slot and T-stud on profiles makes them easy to stack; use an M4 6mm T-nut (order below) and M4x6 pan-head screw to create a T-slot stop for stacking
- Three standard sizes available: 90x45mm, 90x90mm, and 180x90mm
- Optional container bases keep VarioGrab containers at the optimum angle for use



Application Hint

To calculate the profile length needed for your custom VarioGrab container, use the formulas below:

X = Desired volume (in cm³)

$$\frac{(X - A)}{B} \times 10 = \text{profile length in mm}$$

VarioGrab Profile Size	End Set Volume (A)	Profile Channel Area (B)
90x45	91 cm ³	23.87 cm ²
90x90	268 cm ³	57.4668 cm ²
180x90	588 cm ³	125.2528 cm ²

Dimensioning Example

VarioGrab Profile Size	Profile Length	Volume Capacity*	Max. Load Capacity
90x45	300 mm	807 cm ³	2.5 kg
90x90	300 mm	1992 cm ³	5 kg
180x90	300 mm	4346 cm ³	10 kg

* Includes end caps

Description	Lot Size	Part Number
A VarioGrab 90x45 profile, 3000mm long, one		3 842 526 676
A VarioGrab 90x45 profile, 3000mm long, pkg. of 3		3 842 526 671
A VarioGrab 90x45 end set with hardware	1	3 842 526 626
B VarioGrab 90x90 profile, 3000mm long, one		3 842 526 677
B VarioGrab 90x90 profile, 3000mm long, pkg. of 3		3 842 526 672
B VarioGrab 90x90 end set with hardware	1	3 842 526 627
C VarioGrab 180x90 profile, 3000mm long, one		3 842 526 678
C VarioGrab 180x90 profile, 3000mm long, pkg. of 3		3 842 526 673
C VarioGrab 180x90 end set with hardware	1	3 842 526 628
D VarioGrab 90-series container base	1	3 842 526 660
D VarioGrab 180-series container base	1	3 842 526 665
E M4 6mm T-nut for use as end stop	1	3 842 523 135

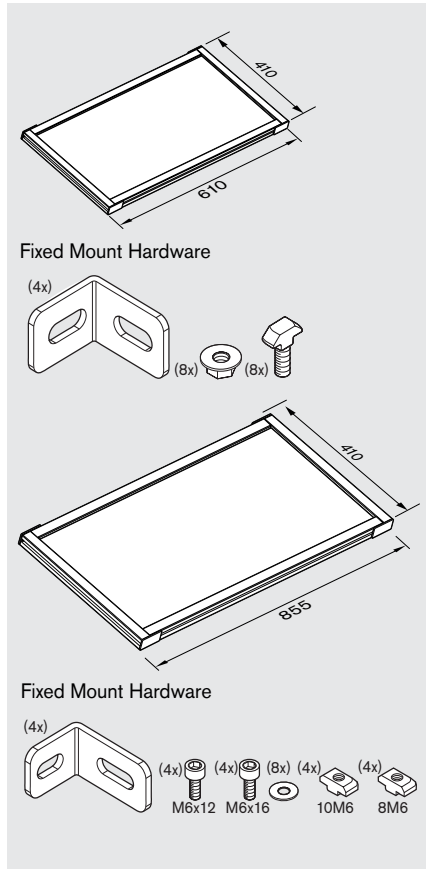
Machined Options

	End Finish	Part Number
VarioGrab 90x45 profile, -/-, specify length ≥30mm≤3000mm	<input type="checkbox"/>	3 842 993 071/ __mm
VarioGrab 90x90 profile, -/-, specify length ≥30mm≤3000mm	<input type="checkbox"/>	3 842 993 072/ __mm
VarioGrab 180x90 profile, -/-, specify length ≥30mm≤3000mm	<input type="checkbox"/>	3 842 993 073/ __mm

Please contact your distributor for other machining options.

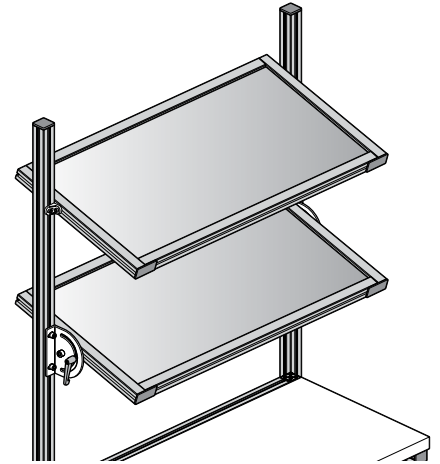
Section 11: Ergonomic Workplace Equipment



Adjustable Tilt Shelf 



Features:

- Designed to fit between the up-rights of standard extension struts
- Order adjustable mounting hardware separately:
 - Swivel bracket kit for fast and easy adjustment without tools
 - Adjustable angle gussets for applications where frequent adjustments are not necessary
- Available in ESD versions
- Includes fixed mount hardware

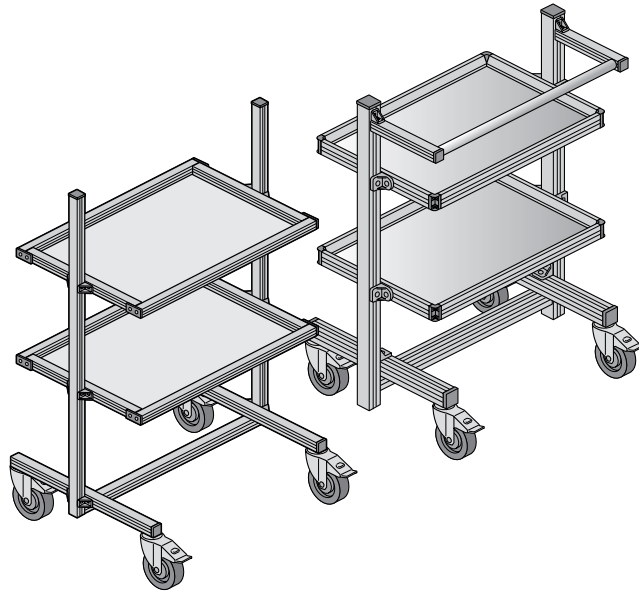


Description	Lot Size	Part Number
Economic Adjustable Tilt Shelf, 610mm	1	3 842 538 456
Economic Adjustable Tilt Shelf, 855mm	1	3 842 538 457
Economic Adjustable Tilt Shelf, 610mm 	1	3 842 538 458
Economic Adjustable Tilt Shelf, 855mm 	1	3 842 538 459
Basic Adjustable Tilt Shelf, 610mm	1	3 842 538 460
Basic Adjustable Tilt Shelf, 610mm 	1	3 842 538 461
Swivel bracket kit (two required)	1	3 842 538 276
Adjustable angle gusset (two required)	1	3 842 515 547

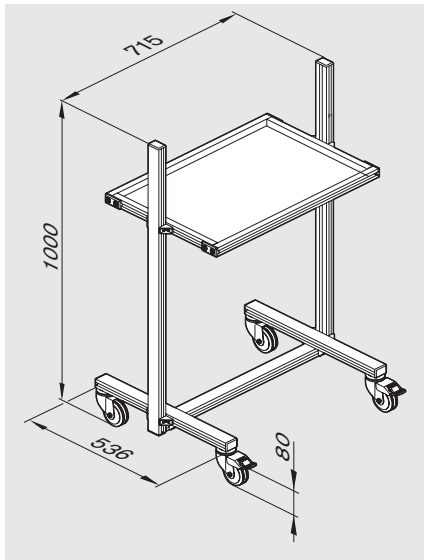
Section 11: Ergonomic Workplace Equipment

Tool and Material Shuttles

Bosch Rexroth offers a wide selection of carts and shuttles designed to transport parts and equipment from place to place in a factory or office environment. Carts and shuttles consist of a rolling aluminum frame on which shelves, bin racks, case holders, etc. can be mounted. Four swiveling casters provide maximum maneuverability, and two can also be locked to prevent undesired movement. Shuttles and carts are available as complete easy-to-assemble kits; key components such as shelves and racks are also available separately to expand or customize your cart or shuttle, or to design one from scratch.



Economic Material Shuttle 8 10



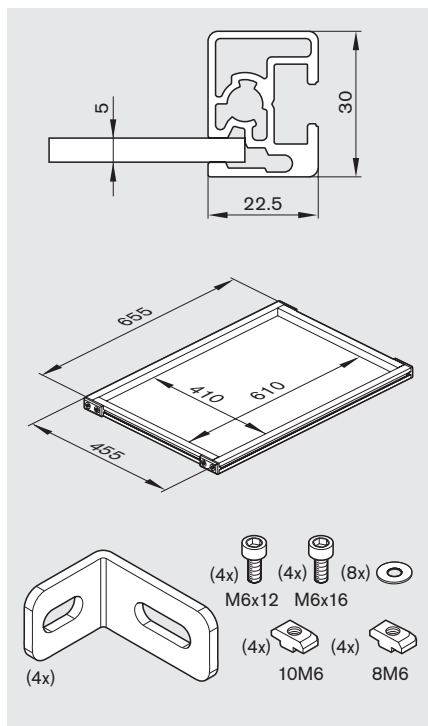
Features:

- Constructed from 30x45 profile for strong, lightweight performance
- Rubber-tired locking industrial wheels
- Available with one or two shelves; additional shelves can be purchased separately
- ESD or standard versions available

Description	Lot Size	Part Number
Economical material shuttle with one shelf	1	3 842 515 481
Economical material shuttle with two shelves	1	3 842 515 482
Economical material shuttle, ESD, with one shelf	1	3 842 518 120
Economical material shuttle, ESD, with two shelves	1	3 842 518 121

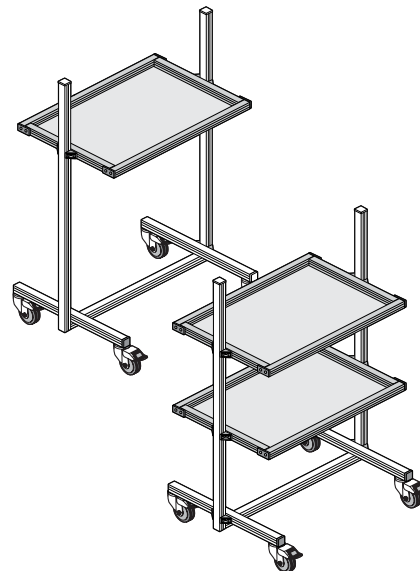
Section 11: Ergonomic Workplace Equipment


Economic Shelf



Features:

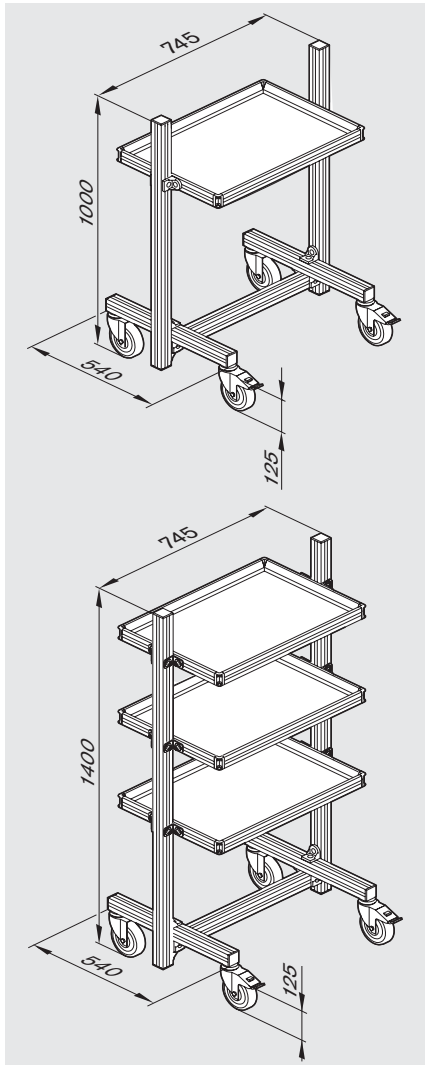
- Suitable for medium loads
- ESD or standard versions available
- Includes fastening kit as shown



Description	Lot Size	Part Number
Economic shelf only	1	3 842 538 456
Economic shelf only 	1	3 842 538 458

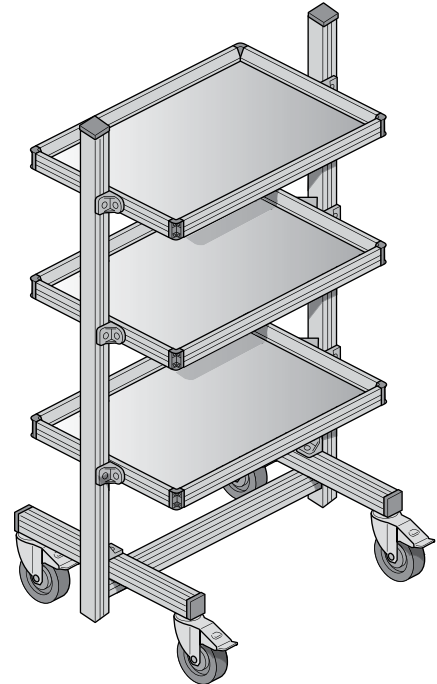
Section 11: Ergonomic Workplace Equipment

Basic Material Shuttle 



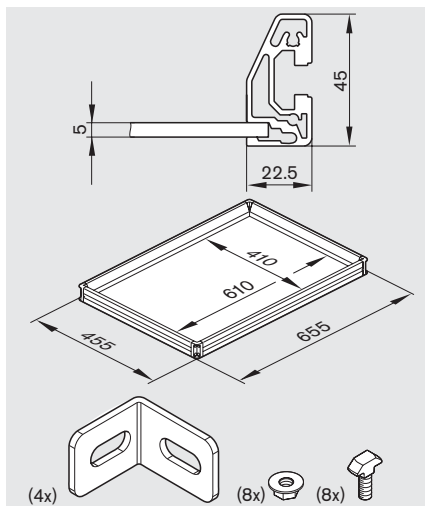
Features:

- Constructed from 45x45 profile for high strength and rigidity
- Features four floor-protective swiveling casters with 125mm diameter wheels for ease of movement
- ESD or standard versions available
- Equipped with locking rollers
- Ergonomic handles
- Suitable for heavy-duty use for transport and material supply




Description	Lot Size	Part Number
Heavy-duty material shuttle with one shelf	1	3 842 515 483
Heavy-duty material shuttle, ESD, with one shelf	1	3 842 515 484
Heavy-duty material shuttle with three shelves	1	3 842 508 181
Heavy-duty material shuttle, ESD, with three shelves	1	3 842 508 182

Basic Material Shelves 



Features:

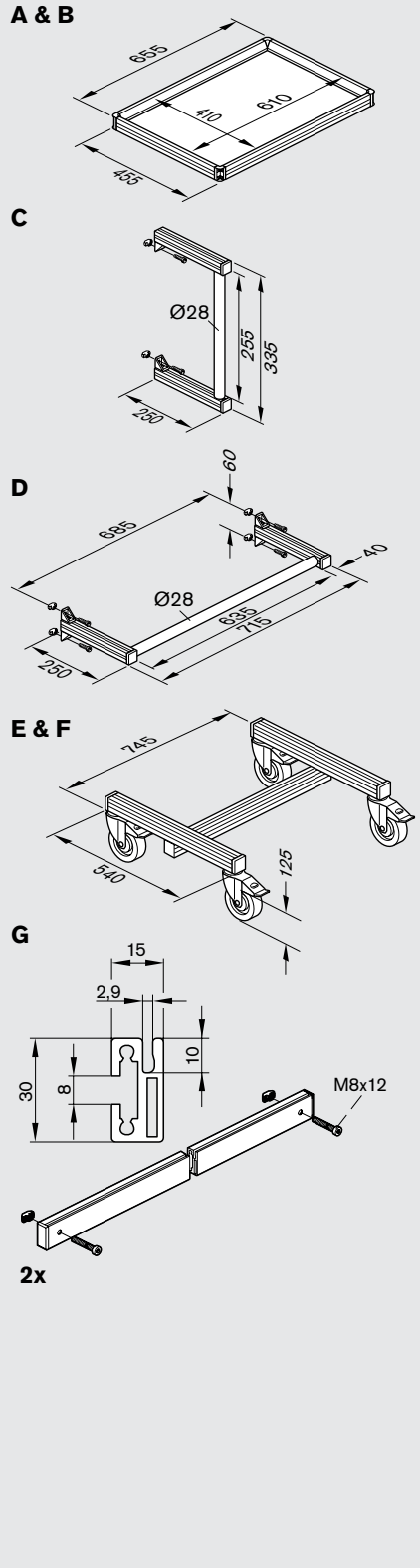
- Suitable for heavy loads
- ESD or standard versions available
- Includes fastening kit as shown

Description	Lot Size	Part Number
Basic Material Shelf	1	3 842 538 460
Basic Material Shelf, ESD 	1	3 842 538 461

Section 11: Ergonomic Workplace Equipment

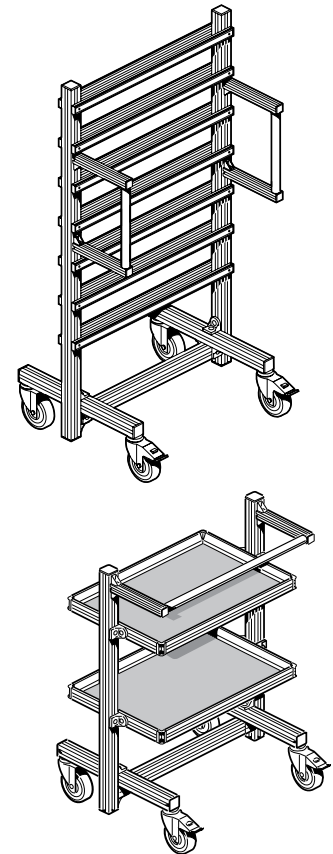
Tool and Material Shuttles





Material Shuttle Components



Features:

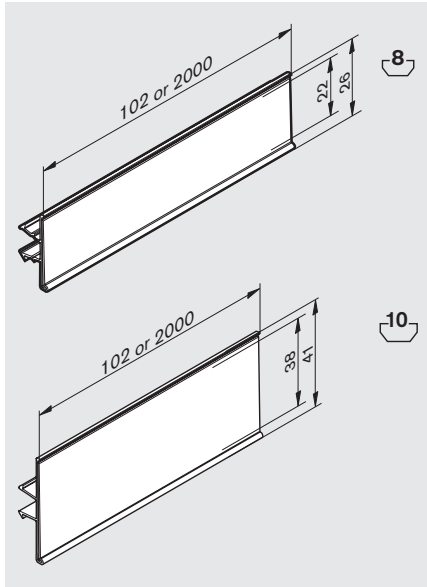
- Individual components used to construct material shuttles are also sold separately
- Ideal for customization, expansion, or repair of existing shuttles, or use individual components such as handles or shelves to design your own
- Shuttle shelves are available in standard or ESD format; order mounting hardware separately (standard or adjustable angle gussets recommended, see Section 3)
- Handle kits include ESD handle tubes (one for horizontal, two for vertical), side profiles, end caps, and mounting hardware and attach to any profile with 10mm T-slots
- ESD handle tubing and mounting dowels are also available separately to create custom length handles
- Wheeled shuttle chassis kits feature four swiveling 80mm casters, two of which can be locked, and are available in standard or ESD versions



Description	Lot Size	Part Number
A Shuttle shelf	1	3 842 505 357
B Shuttle shelf, ESD 	1	3 842 505 358
C Vertical handle kit (two 255mm handles) 	1	3 842 538 930
D Horizontal handle kit (one 635mm handle) 	1	3 842 538 931
E Wheeled shuttle chassis	1	3 842 515 485
F Wheeled shuttle chassis, ESD 	1	3 842 531 779
G Suspension Profile, with fasteners	1	3 842 998 215

Section 11: Ergonomic Workplace Equipment

Lettering Clips  

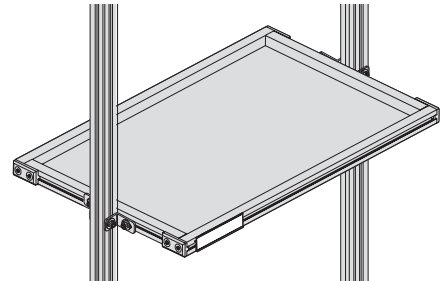


Features:



- Available in various lengths and designs
- Clips fit profiles with 8mm and 10mm T-slots
- Perfect for labeling flow racks, workstations and material shuttles

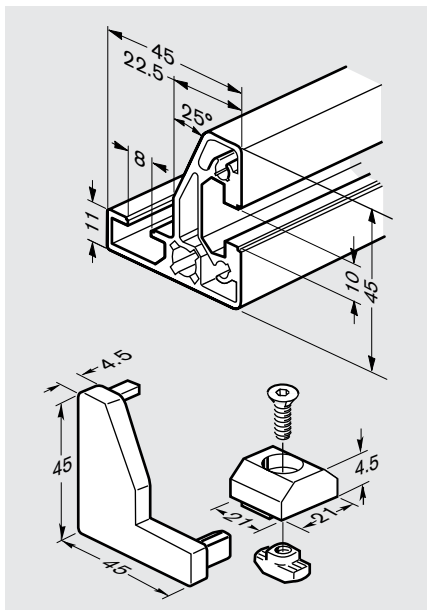
Material:

- PVC



Description	Lot Size	Part Number
Lettering clip 22x102mm	1	3 842 537 650
Lettering clip 22x2000mm	1	3 842 537 114
Lettering clip 38x102mm	1	3 842 537 651
Lettering clip 38x2000mm	1	3 842 537 117

Tray Profile (45x45T)  

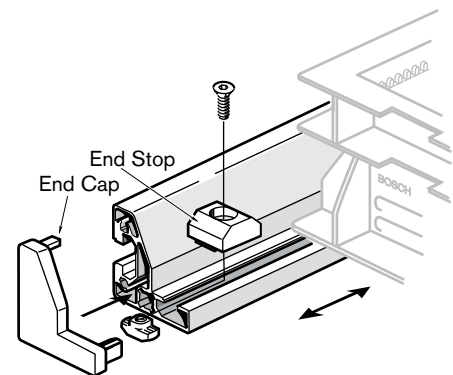


Features:

- Ideal for constructing shelves for use with parts bins and tools
- Has 8mm and 10mm T-slots
- Optional end cap and stop kit available separately (kit includes left and right end caps, stops, fastening screws, and T-nuts)

Material:

- Profile: anodized aluminum
- End cap: conductive black polyamide 12
- End stop: black polyamide 6



Description	Lot Size	Part Number
45x45T tray profile, 5600mm long, one		3 842 508 105
45x45T tray profile, 5600mm long, pkg. of 20		3 842 508 104
End cap kit	1	3 842 508 116

Machined Options

45x45T tray profile, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$

End Finish



Part Number

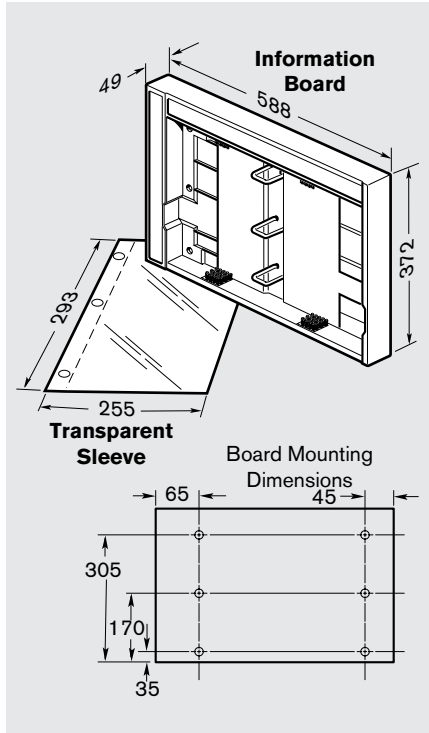
3 842 992 412/ __mm

Please contact your distributor for other machining options.

Section 11: Ergonomic Workplace Equipment

Information Presentation

Information Board

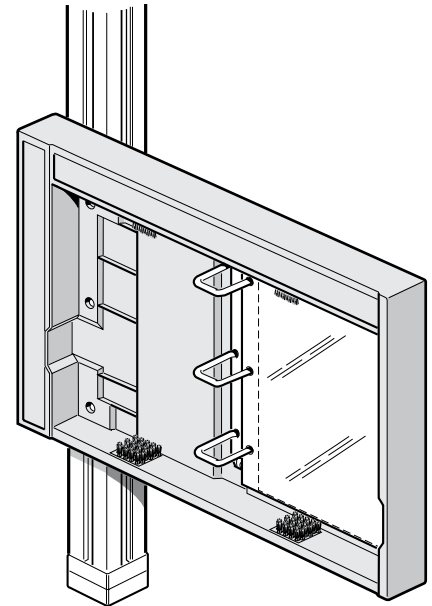


Features:

- Allows display of assembly instructions, test information, packaging instructions, etc., at workstations
- Can be positioned at eye level; can be mounted vertically or horizontally to T-slotted profiles
- Three-ring binder design allows easy insertion of transparent sleeves for 8.5x11" paper
- Transparent sleeves protect pages from dirt and damage
- Page holders hold instructions open to desired page while making it easy to change pages

Material:

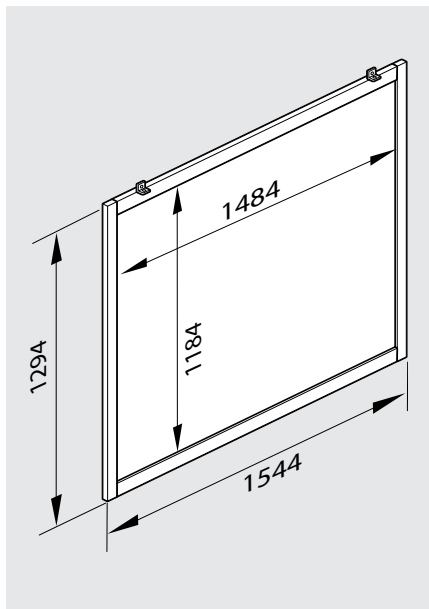
- Dark gray ABS plastic



Description	Lot Size*	Part Number
Information board	1	3 842 517 164
Removable transparent sleeves	10	3 842 539 839

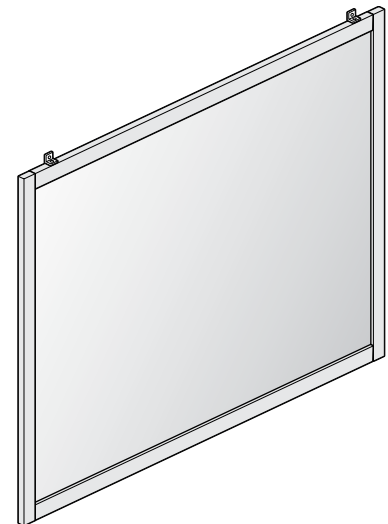
* For smaller quantities, please contact your local distributor.

Wall Board



Features:

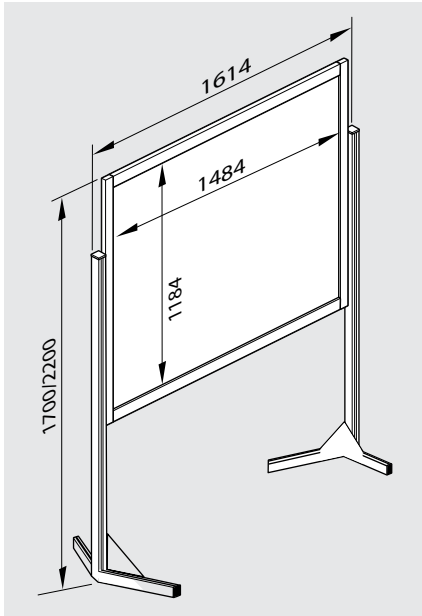
- Post production schedules, safety notices, or any other information on the shop floor or in the office
- Enameled steel surface can be used with dry-erase markers and magnets
- Aluminum frame mounts to virtually any flat surface
- Order two mounting brackets for easy installation



Description	Lot Size	Part Number
Wall board	1	3 842 515 776
Wall mounting bracket (30mm adjustable gusset kit)	1	3 842 515 547

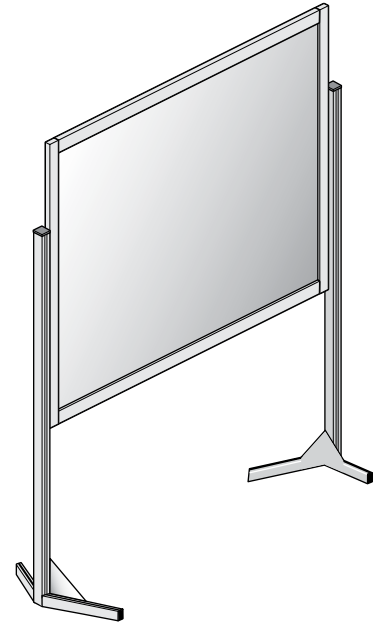
Section 11: Ergonomic Workplace Equipment

Free-Standing Bulletin Board



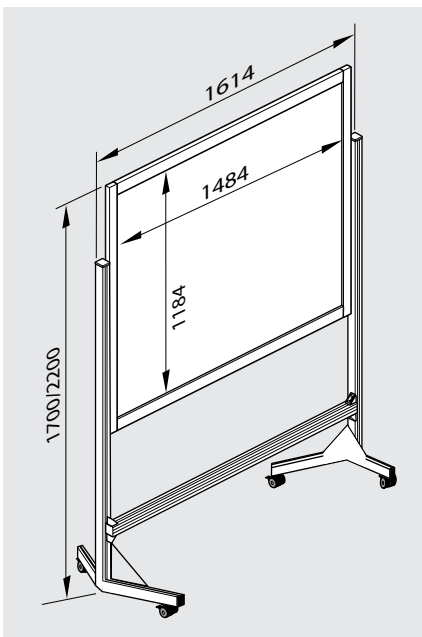
Features:

- Post production schedules, safety notices, or any other information on the shop floor or in the office
- Lightweight design makes it easy to transport when needed
- Enameled steel surface can be used with dry-erase markers and magnets
- Height- and angle-adjustable aluminum frame provides sturdy support
- Use container hangers to attach grab trays or grab ledges to the frame to hold dry-erase markers, magnets, etc.
- Kit, some assembly required



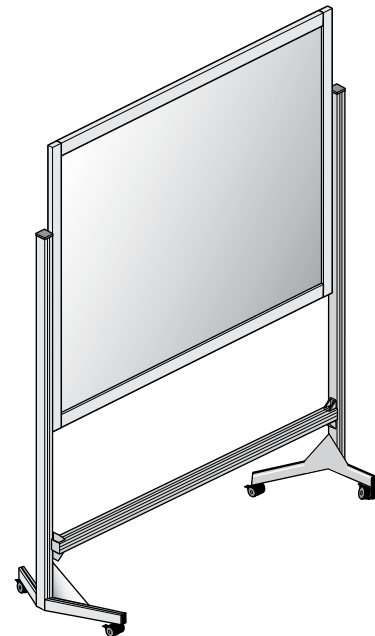
Description	Lot Size	Part Number
Freestanding bulletin board, one	1	3 842 515 772

Rolling Bulletin Board



Features:

- Post production schedules, safety notices, or any other information on the shop floor or in the office
- Ideal for presentations, conference rooms, etc.
- Casters roll easily and lock to prevent unwanted movement during use
- Enameled steel surface can be used with dry-erase markers and magnets
- Height- and angle-adjustable aluminum frame provides sturdy support
- Use container hangers to attach grab trays or grab ledges to the frame to hold dry-erase markers, magnets, etc.
- Kit, some assembly required

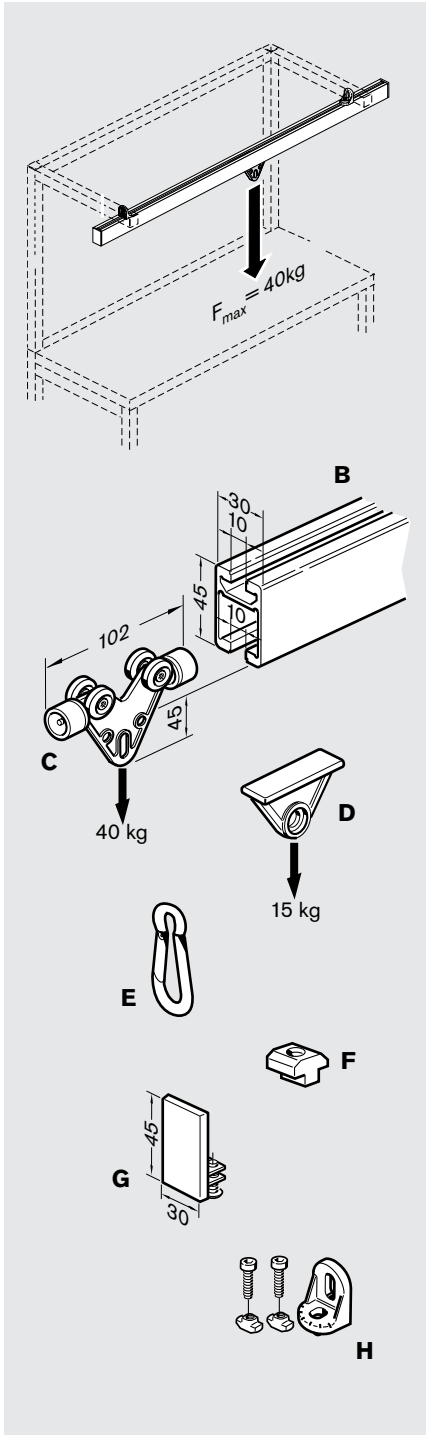


Description	Lot Size	Part Number
Rolling bulletin board, one	1	3 842 515 774

Section 11: Ergonomic Workplace Equipment

Tool Management

Tool Rail Kits and Components



Features:

- Keeps tools readily at hand without taking up valuable worktable space
- Allows easy movement of tools from side-to-side

B Anodized aluminum roller channel profile holds roller shuttles or tool hangers and can be cut to length to create custom-sized tool rails

C Roller shuttle with Delrin® rollers and rubber bumpers allows easy movement of tools along entire length of roller channel profile; supports up to 40 kg (88 lbs.)

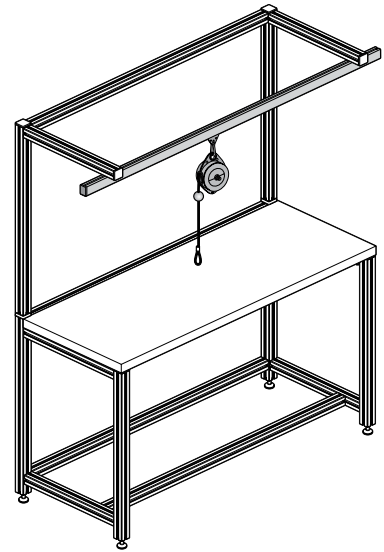
D Tool hanger allows lateral movement along any profile with 10mm T-slots; supports up to 15 kg (33 lbs.)

E Spring hook permits easy attachment of a tool or tool balancer to a roller shuttle or tool hanger; maximum load is 40 kg (88 lbs.)

F 10mm T-blocks can be used to create end stops for roller shuttles or tool hangers

G End caps provide a clean, finished look at the ends of the roller channel profile

H Adjustable angle gusset kits allow easy installation of tool rails on extension struts and other profile structures with 10mm T-slots



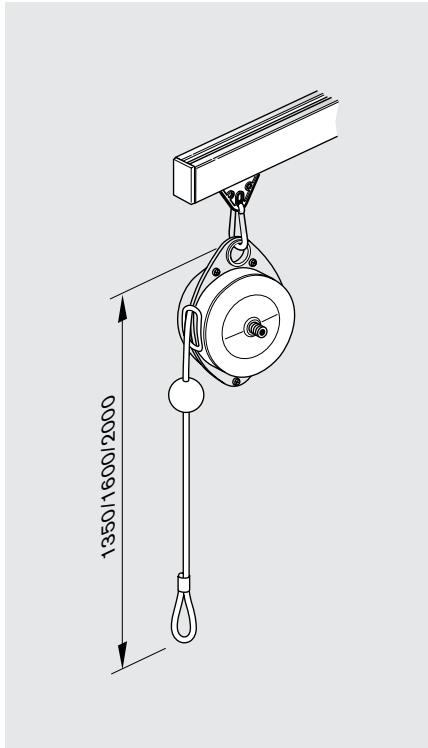
Material:

- B** Roller channel profile: anodized aluminum
- C** Roller shuttle: polyamide 6 body, Delrin® rollers, and rubber bumpers
- D** Tool hanger: POM plastic
- E** Spring hook: galvanized steel
- F** T-block: zinc-plated steel
- G** End caps: black polyamide 6
- H** Adjustable angle gusset kits: die-cast zinc with zinc-plated steel hardware

Description	Lot Size	Part Number
B Roller channel profile 30x45C, 5600mm long	1	3 842 523 599
B Roller channel profile 30x45C, ≥30mm≤5600mm	1	3 842 992 946
C Roller shuttle	1	3 842 521 510
D Tool hanger	1	3 842 218 953
E Spring hook	1	0 842 901 309
F T-block, 10mm, M8	1	3 842 528 735
G End cap for 30x45C profile	1	3 842 521 513
H Adjustable angle gusset kit with fasteners $\left[\begin{matrix} 10 \\ \rightarrow \\ 10 \end{matrix} \right]$	1	3 842 521 580

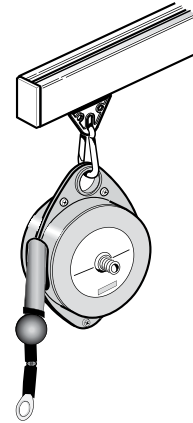
Section 11: Ergonomic Workplace Equipment

Tool Balancers



Features:

- Reduces operator fatigue and lowers the risk of repetitive motion syndrome
- Counterbalances weight of tool to make tool effectively weightless
- Improves worker comfort, speeds assembly, and keeps tools out of the way when not in use
- Three standard versions with different load ranges available
- Version with integrated pneumatic hose available for use with air tools
- Match the load range with the tool to be used
- Load range and cable length adjustable to match individual tools

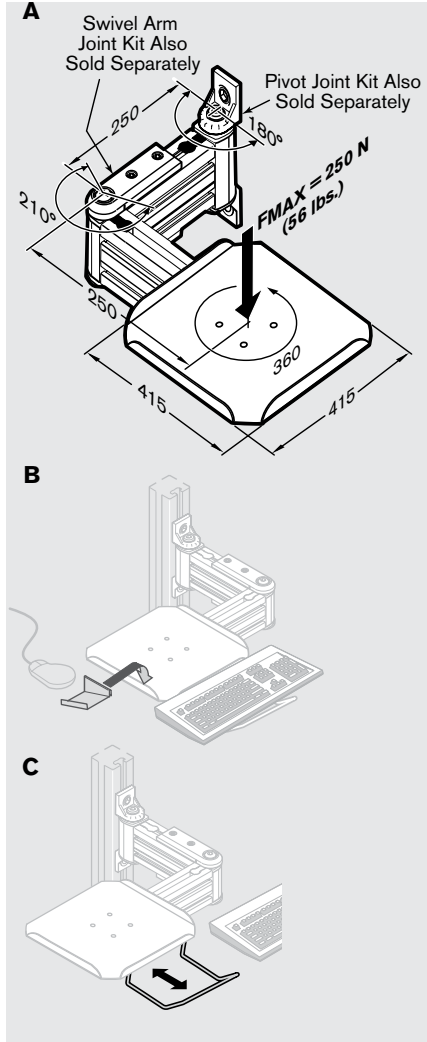


Description	Lot Size	Part Number
Tool Balancer, 0.4 to 1.4 kg, 1600mm cable	1	3 842 520 053
Tool Balancer, 1.0 to 2.0 kg, 1600mm cable	1	3 842 520 054
Tool Balancer, 2.0 to 4.0 kg, 2000mm cable	1	3 842 520 055
Tool Balancer with hose (G1/4 connection), 1.2 to 2.5 kg, 1350mm cable	1	3 842 520 056

Section 11: Ergonomic Workplace Equipment

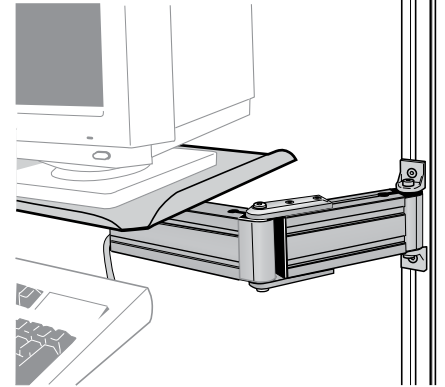
Comfort and Convenience Accessories

Monitor Arm Kit

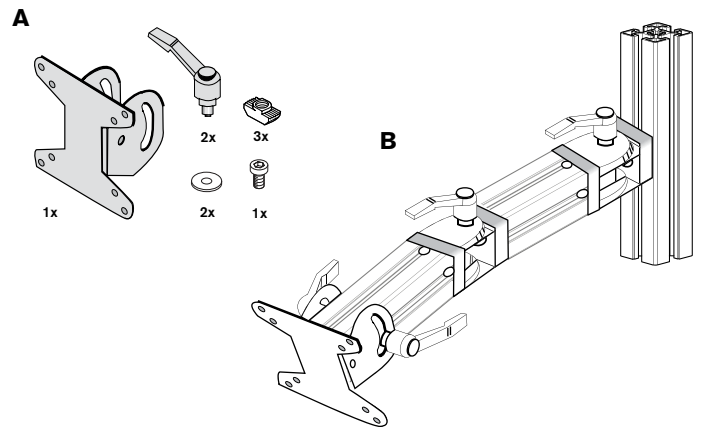


Features:

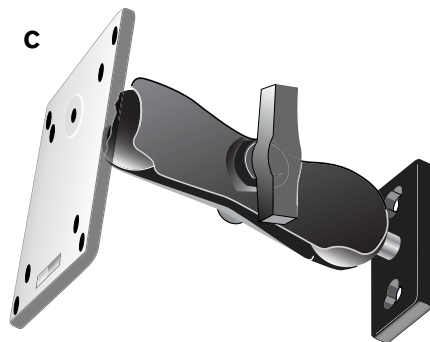
- Frees up additional workspace on workstation while keeping monitor readily at hand
- Attaches to any profile with 10mm T-slots
- Swivels monitor out of the way when not in use
- Perfect for test stations, CAD workstations, and trade show displays
- Optional pullout keyboard holder and mouse holder keep peripherals within reach without taking up desk space
- Monitor arm kit includes all parts and hardware required to assemble one monitor arm
- Order keyboard holder and mouse holder separately below



Description	Lot Size	Part Number
A Monitor arm kit	1	3 842 521 970
B Mouse holder	1	3 842 522 130
C Keyboard holder	1	3 842 522 305



Flat Panel Monitor



Features:

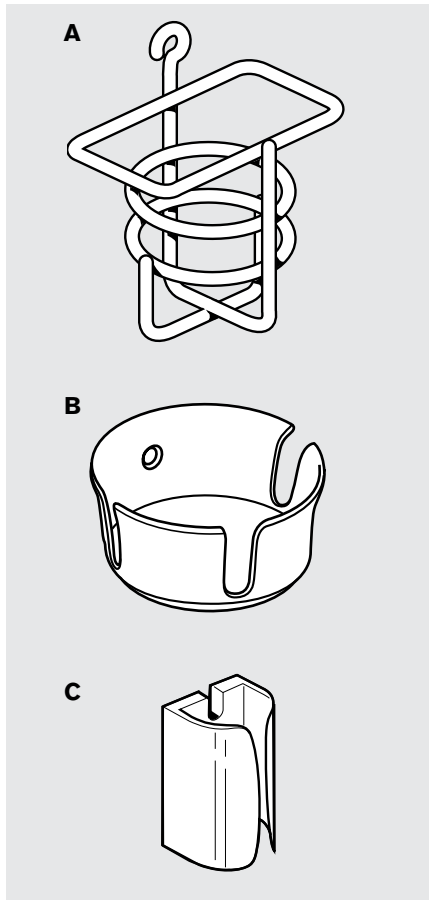
- VESA mount has standard 75X75mm and 100X100mm patterns for mounting most flat panel monitors
- **A + B** support up to 12 kg (26lbs)
- **B** Assembly required
- **C** supports up to 5kg (11lbs)

Description	Lot Size	Part Number
A TFT monitor bracket	1	3 842 539 840
B TFT monitor bracket with support arm	1	3 842 539 806
C Economic TFT monitor bracket with support arm	1	R980 024 883



Section 11: Ergonomic Workplace Equipment

Bottle Holder, Cup Holder, and Cloth Holder



Cup holders, bottle holders, and cloth holders keep these items off the worktable surface and help prevent spills and clutter.

A - Bottle Holder:

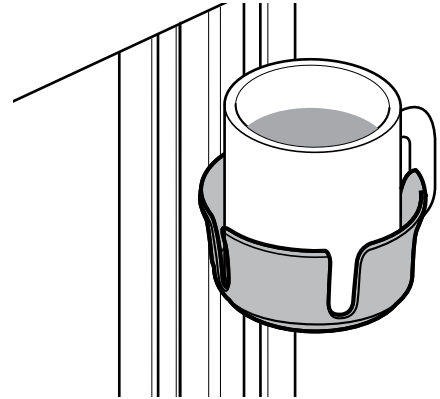
- Holds round and square beverage bottles and drink boxes
- Made of light gray plastic-coated wire, includes mounting hardware


B - Cup Holder:

- Holds most standard mugs and cups; notches in sides accommodate handle
- Made of durable black plastic
- Requires M5 T-Nut and screw for installation (not included)

C - Cloth Holder:

- Two flexible tabs allow easy insertion and removal of rags and towels
- Made of durable black plastic
- Simple twist-in mounting



Description	Lot Size	Part Number
A Bottle holder 	1	3 842 540 429
B Cup holder	1	3 842 513 722
C Cloth holder	1	3 842 530 306

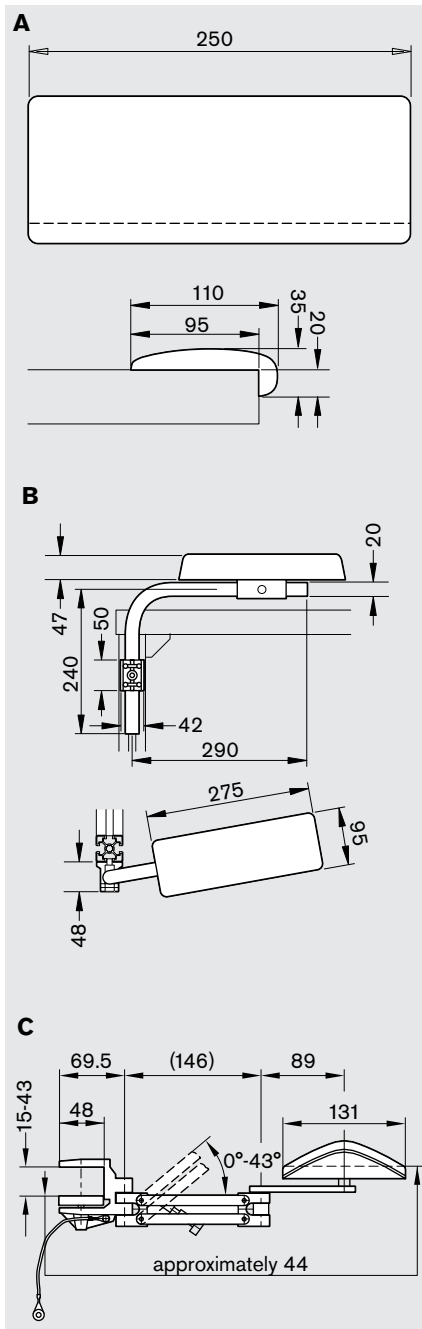
Design Engineering Tip

Alternative Applications
 Rexroth aluminum framing accessories are typically designed for specific applications. However, our customers constantly find new ways to use them. For example, our monitor arms work as excellent tool holders in a lean work cell. They are perfect for flexible positioning—making any work cell more ergonomic.

Section 11: Ergonomic Workplace Equipment

Comfort and Convenience Accessories

Armrests



Armrests are a valuable tool for reducing worker fatigue caused by repetitive tasks. Armrests also help maintain an ergonomic working position and improve worker comfort.

Three different styles are available:

A – Tabletop Edge Armrest:

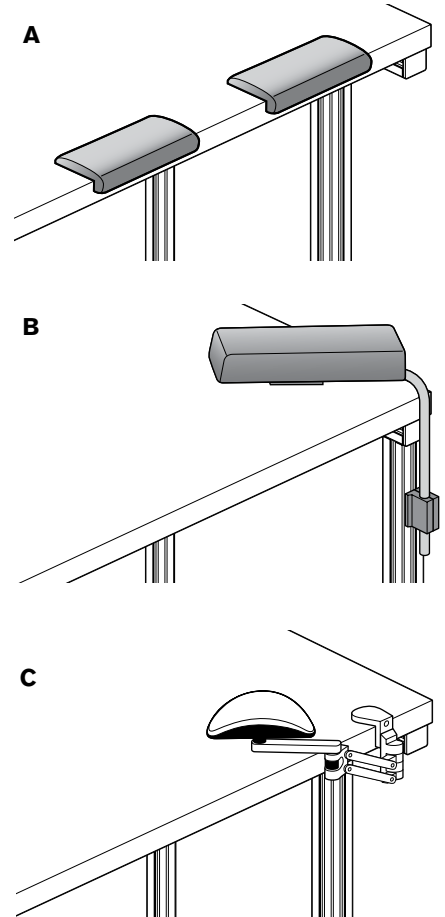
- Protects worker’s arms from sharp tabletop edges
- Made of soft black polyurethane; attaches quickly with double-sided tape
- Available in standard or ESD version




B – Adjustable Armrest:

- Mounts to vertical 10mm T-slot on worktable leg
- Height and angle adjustable
- Suitable for workstations used for repetitive tasks

C – Articulated Armrest:

- Offers highest degree of flexibility and adjustability; leather arm pad maximizes comfort and durability
- Ideal for delicate assembly operations and for applications requiring extended use of a computer mouse
- Clamps quickly to edge of worktable
- Available in standard or ESD version
- Replacement arm pads available



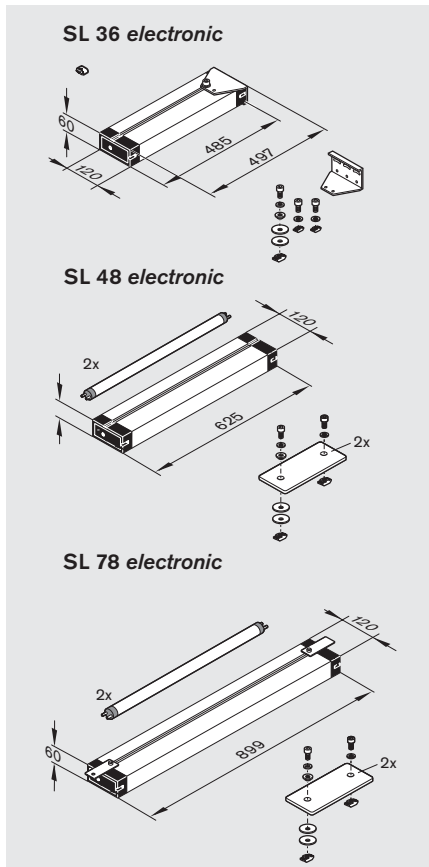
Description	Lot Size	Part Number
A Tabletop edge armrest, standard	1	3 842 191 186
A Tabletop edge armrest, ESD 	1	3 842 516 704
B Adjustable armrest	1	3 842 191 178
C Articulated armrest, standard	1	3 842 515 493
C Articulated armrest, ESD 	1	3 842 515 525
C Replacement armrest pad, standard	1	3 842 515 494
C Replacement armrest pad, ESD 	1	3 842 515 526

Section 11: Ergonomic Workplace Equipment

Electrical and ESD Components



Overhead Lamp with Electronic Ballast

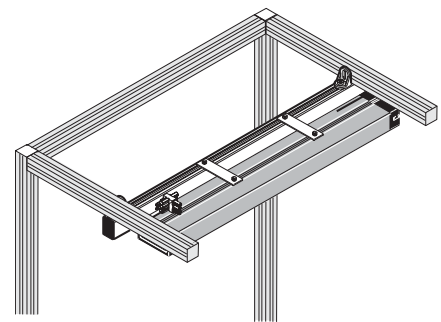
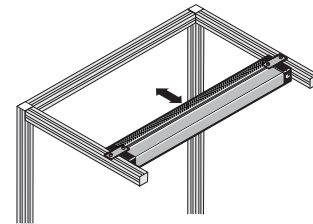


Features:

- High-quality glare-free light
- Electronic lamps are extremely cost-effective
- Low power consumption, long fluorescent tube service life
- Flicker-free
- Light-weight
- Quality class A DIN 5035-T2)
- Includes fastening kit
- Quality class A DIN 5035-T2)
- Quality class A DIN 5035-T2)
- Includes fastening kit

Material:

- Housing: anodized aluminum



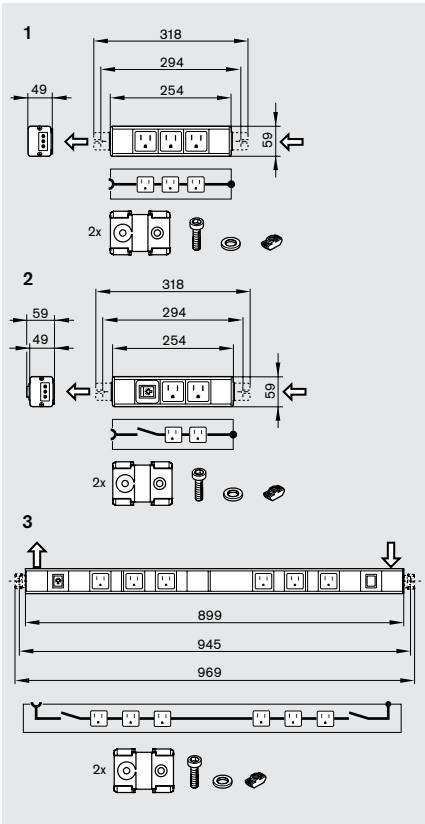
Description	Lot Size	Part Number
SL 36 electronic, 120-277 V50, 60HZ	1	3 842 537 351*
SL 48 electronic, 120-277 V50, 60HZ	1	3 842 537 349*
SL 78 electronic, 120-277 V50, 60HZ	1	3 842 537 345*

* Please order power strip 2 or 3 and connecting cables separately on page 11-32

Section 11: Ergonomic Workplace Equipment

Electrical and ESD Components

Power Strips ¹⁰



Features:

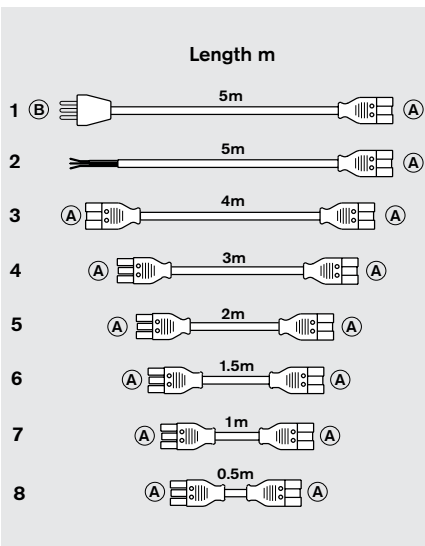
- Grounded plug socket strip
- Aluminum housing to mount onto strut profile
- Fastening kit for insulating assembly on ESD workstations
- Strips come with 2, 3 or 6 sockets
- Power strip with 2 sockets available with switchable outlet
- Includes mounting hardware as shown
- Protection class: IP 20 (IEC 529/DIN 40050)
- Power strip with 6 sockets available with switchable outlet and inlet
- Grounded sockets are turned at a 45° angle to allow for close-fitting plugs



Description	Lot Size	Part Number
1 Power Strip with 3 sockets	1	3 842 539 880*
2 Power Strip with 2 sockets, switchable outlet	1	3 842 539 882*
3 Power Strip with 6 sockets, switchable outlet/inlet	1	3 842 539 884*

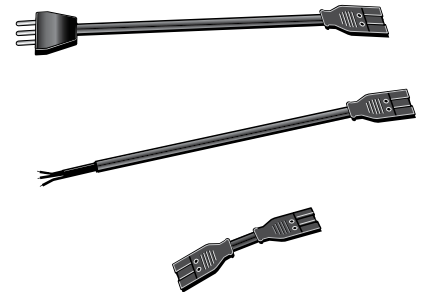
* Please order power strip and connecting cable separately below

Connecting Cables



Features:

- Pre-manufactured to simplify wiring
- Provide enhanced safety
- Conform to DIN EN IEC 60 598-1 standard
- Color: Black



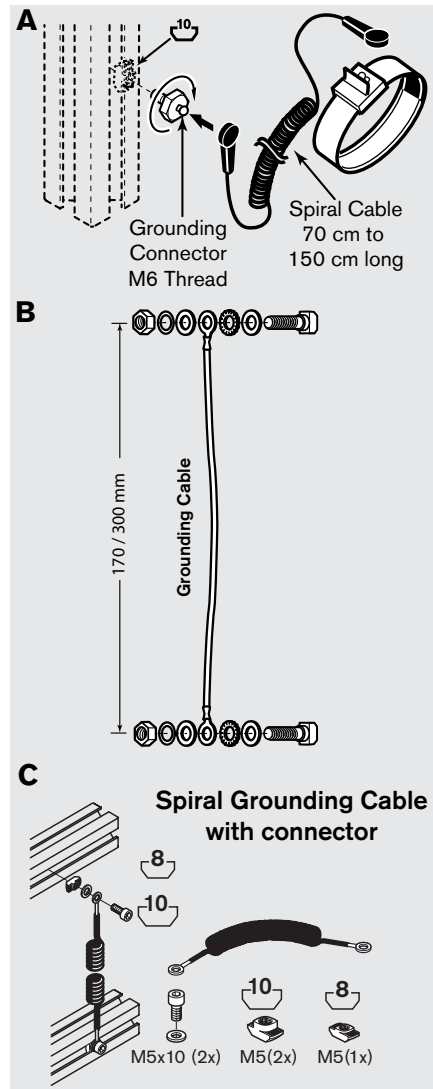
Description	Lot Size	Part Number
1 Connecting Cable, 5m long	1	3 842 537 323
2 Connecting Cable, 5m long	1	3 842 517 201
3 Connecting Cable, 4m long	1	3 842 537 599
4 Connecting Cable, 3m long	1	3 842 537 558
5 Connecting Cable, 2m long	1	3 842 537 560
6 Connecting Cable, 1.5m long	1	3 842 537 562
7 Connecting Cable, 1m long	1	3 842 537 564
8 Connecting Cable, 0.5m long	1	3 842 537 566

(A) IEC/ED 60 320-1/VDE 0625

(B) SEV 1011

Section 11: Ergonomic Workplace Equipment

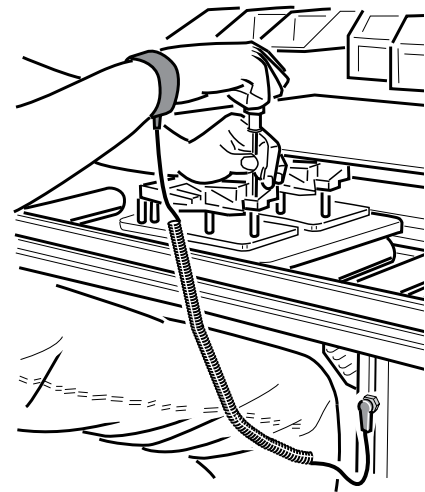
ESD Wrist Strap, Grounding Connector, and Grounding Cables



ESD wrist straps and grounding connectors, as well as grounding cables, are used in applications where the buildup of electrostatic charges must be avoided, such as electronics assembly. They create a conductive connection to T-slotted profile structures.

Features:

- ESD grounding connector connects quickly to the profile T-slot using an M6 T-nut (T-nut not included)
- ESD wrist straps are a comfortable way to make sure workers stay grounded during sensitive assembly procedures
- Wrist strap connects to the grounding connector with a spiral cable that stretches from 700mm to 1500mm (27" to 59") and push-type fasteners
- ESD grounding straps keep accessories and equipment grounded to profile structures
- Grounding straps are available in two lengths: 170mm (6.7") and 300mm (11.8") and include nickel-plated mounting hardware suitable for clean room use



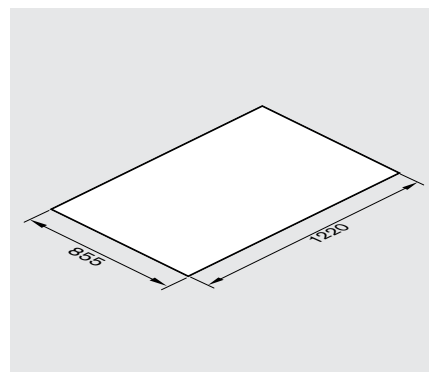
Material:

- Wrist strap: hypoallergenic conductive cloth
- Grounding connector: steel
- Grounding cable: stranded copper wire
- Spiral cable: Elastic wire with short-circuit resistant plastic coating

Description	Lot Size*	Part Number
A ESD wrist strap with spiral cable and push-type fastener	1	3 842 516 908
A Grounding connector	10	3 842 516 905
B Grounding cable with hardware, L = 170mm	1	3 842 168 070
C Spiral Grounding Cable with connector	1	3 842 519 465

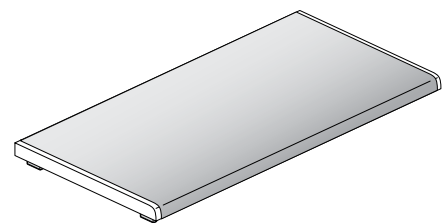
* For smaller quantities, please contact your local distributor.

ESD Protective Mat



Features:

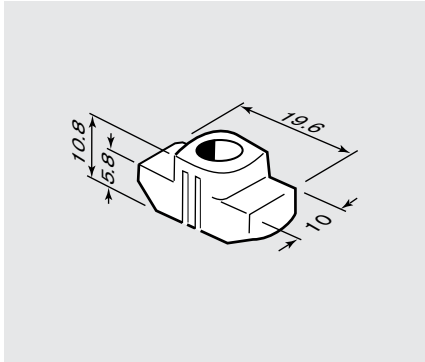
- Can be used on tabletops, footrests, shelves, etc. to quickly make non-conductive surfaces ESD-safe
- Light gray speckled conductive material is flexible and conforms easily to curves
- Delivered in 1220x855mm (48"x 33.7") sheets, can be easily cut to size with a standard linoleum knife
- Surface resistance of $1 \times 10^8 - 9 \times 10^7$ Ohms



Description	Lot Size	Part Number
ESD protective mat, 1220x855mm	1	3 842 522 012

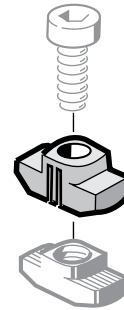
Section 11: Ergonomic Workplace Equipment

Isolation Cap for 8mm T-Nut ¹⁰ 




Features:

- Insulated cover clips onto an 8mm T-Nut to create an insulated 10mm T-Nut
- Used to isolate grounded electrical devices, such as light fixtures or outlet strips, from sensitive ESD components on aluminum profile structures
- Easy snap-on assembly
- Allows use of 8mm T-nuts in 10mm T-slots



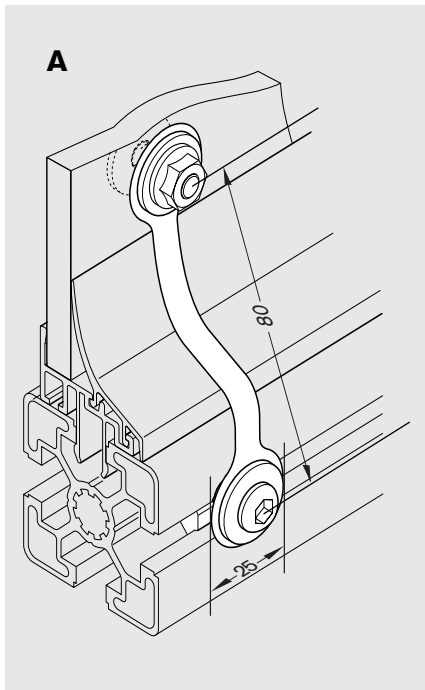
Material:

- Black polyamide 6

Description	Lot Size*	Part Number
Isolation cap for 8mm T-nut 	10	3 842 524 012

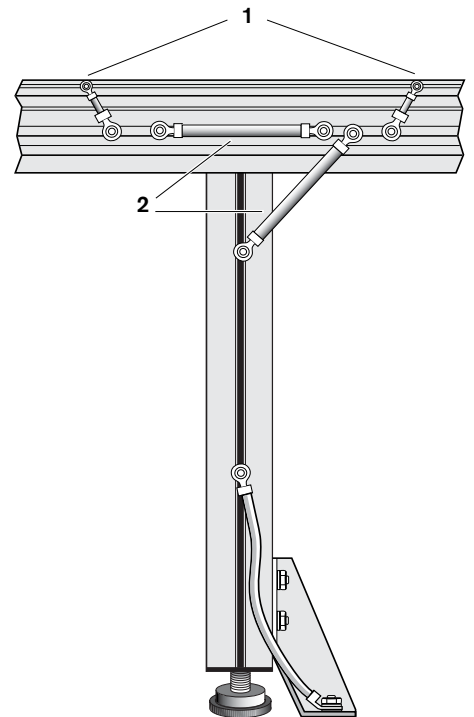
* For smaller quantities, please contact your local distributor.


Grounding Strap 



Features:

- Establishes electrostatic conduction between surface elements
- Protects ESD-sensitive components



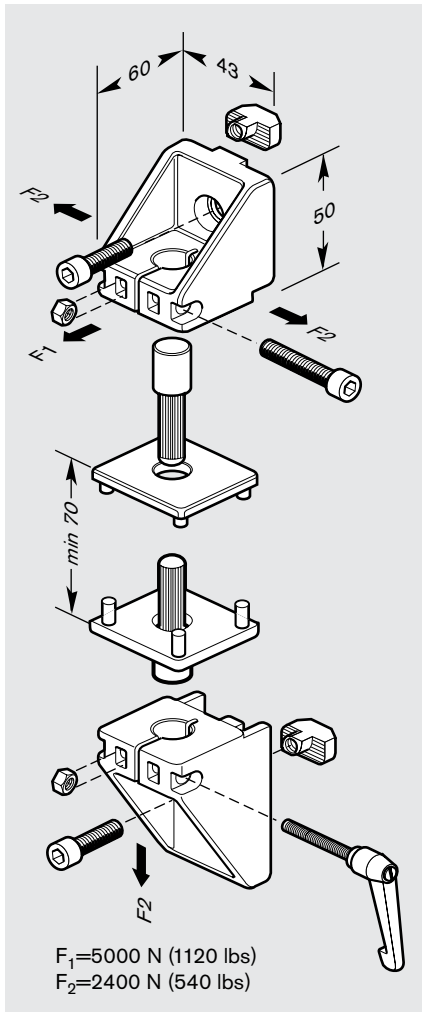
Description	Lot Size*	Part Number
A Grounding Strap 	10	3 842 536 148
1 Grounding Straps, 50mm long	10	3 842 328 180
2 Grounding Straps, 170mm long	1	3 842 168 070

* For smaller quantities, please contact your local distributor.

Section 11: Ergonomic Workplace Equipment

Other Workstation Components

Swivel Hanger Kit 10

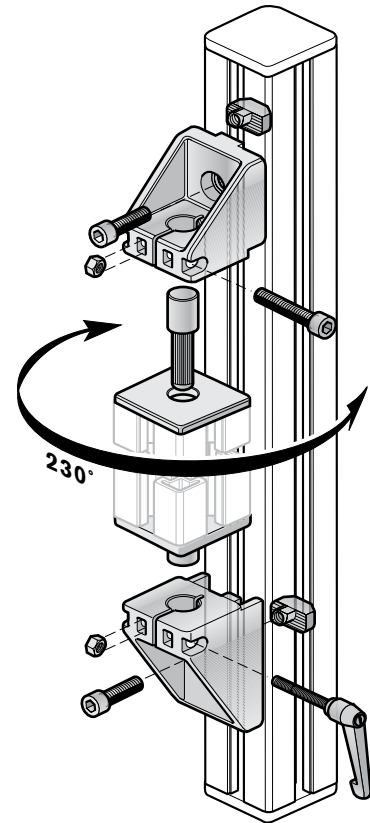


Features:

- Create swiveling hanger arms to hold trays, work lights, tool holders, etc.
- Pivots freely across a 230° range of motion; swivels out of the way when not in use
- Clamping lever allows swivel arm to be locked in place anywhere along range of motion
- Includes all mounting brackets, swivel pins, mounting hardware, and end caps
- 45x45 profile must be ordered separately; minimum length is 70mm (≈ 2")

Material:

- Swivel hanger: die-cast brass with black finish
- Pins and mounting hardware: zinc-plated steel



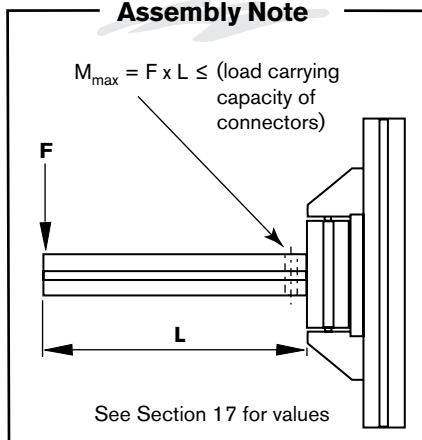
Description

Lot Size

Part Number

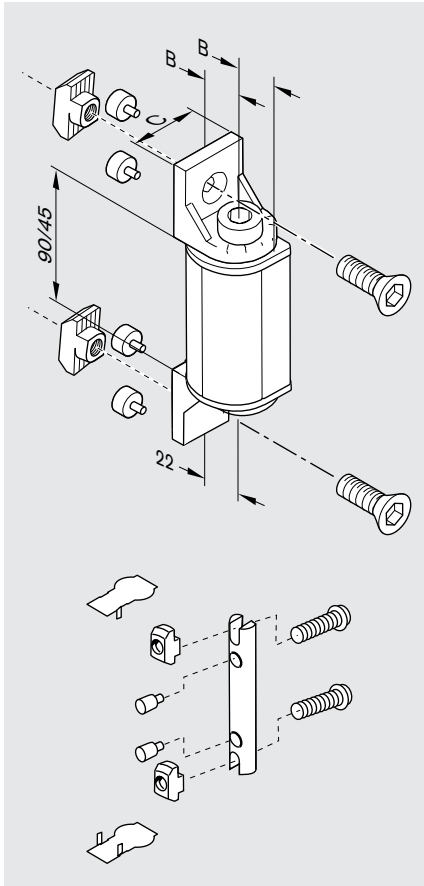
Swivel hanger kit	1	3 842 346 595
Swivel hanger kit <i>designLINE</i>	1	3 842 538 660

Assembly Note



Section 11: Ergonomic Workplace Equipment

Pivot Joint Kit 



Features:

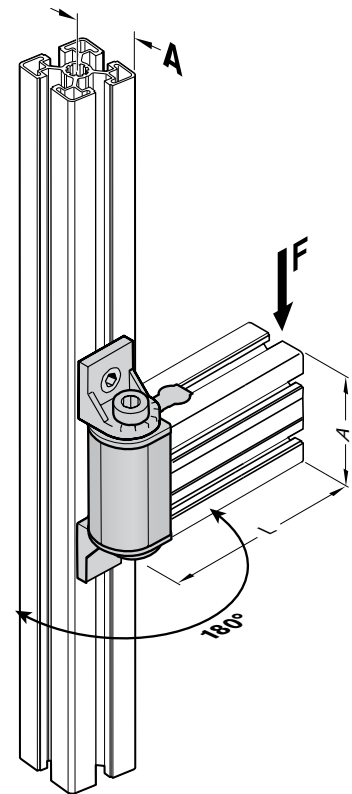
- Create pivoting hanger arms and supports to hold trays, work lights, tool holders, etc.
- Pivots freely across a 180° range of motion; swivels out of the way when not in use
- Available for 40x40, 40x80, 45x45, and 45x90 profiles
- Includes all mounting brackets, 45x45HR profile, bolt connector kit, and mounting hardware

Material:

- Swivel hanger: die-cast brass with black finish
- Pins and mounting hardware: zinc-plated steel

Machining Required:

- 17mm through-hole in connected profile



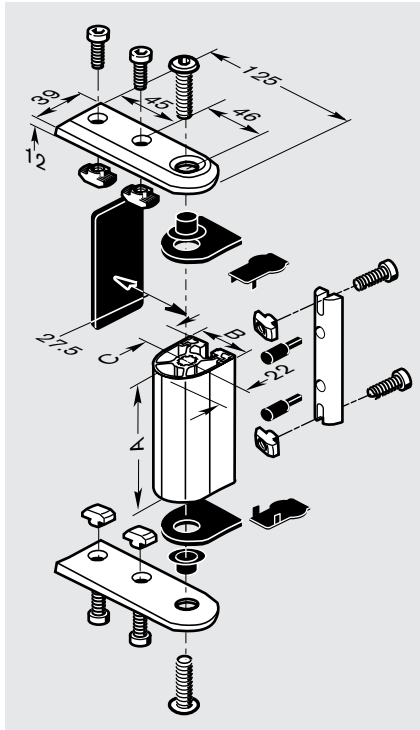
Arm Profile Size	Dim. in mm			m _{MAX} in Nm (F x L)
	A	B	C	
40x40	40	20	35	40
45x45	45	22.5	40	50
40x80	40	20	35	130
45x90	45	22.5	40	150

Description	Lot Size	Part Number
Pivot joint kit for 40x40 profiles <i>designLINE</i>	1	3 842 538 688
Pivot joint kit for 45x45 profiles <i>designLINE</i>	1	3 842 538 690
Pivot joint kit for 40x80 profiles <i>designLINE</i>	1	3 842 538 689
Pivot joint kit for 45x90 profiles <i>designLINE</i>	1	3 842 538 691
Pivot joint kit for 40x40 profiles	1	3 842 532 208
Pivot joint kit for 45x45 profiles	1	3 842 522 634
Pivot joint kit for 40x80 profiles	1	3 842 532 209
Pivot joint kit for 45x90 profiles	1	3 842 522 633

Section 11: Ergonomic Workplace Equipment

Other Workstation Components

Swivel Arm Joint Kit



Features:

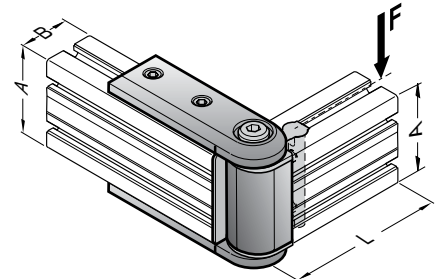
- Create swiveling joints to hold trays, work lights, tool holders, etc.
- Pivots freely across a 210° range of motion; swivels out of the way when not in use
- Attaches to one profile with T-nuts and on the other side with a bolt connector kit
- Available for 40x40, 40x80, 45x45, and 45x90 profiles
- Includes all mounting brackets, end caps, 45x45HR profile, bolt connector kit, and mounting hardware

Material:

- Swivel hanger: die-cast brass with black finish
- Pins and mounting hardware: zinc-plated steel

Machining Required:

- 17mm through-hole in one profile

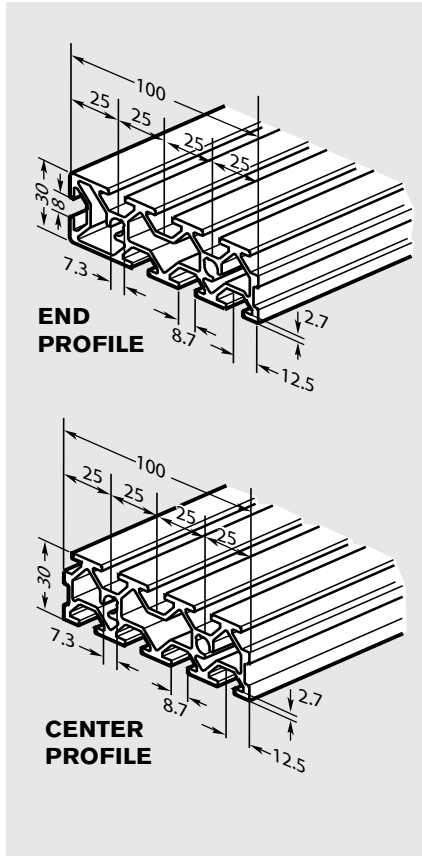


Arm Profile Size	Dim. in mm			m _{MAX} in Nm (F x L)
	A	B	C	
40x40	40	40	20	40
45x45	45	45	22.5	50
40x80	80	40	20	130
45x90	90	45	22.5	150

Description	Lot Size	Part Number
Swivel arm joint kit for 40x40 profiles <i>designLINE</i>	1	3 842 538 692
Swivel arm joint kit for 45x45 profiles <i>designLINE</i>	1	3 842 538 694
Swivel arm joint kit for 40x80 profiles <i>designLINE</i>	1	3 842 538 693
Swivel arm joint kit for 45x90 profiles <i>designLINE</i>	1	3 842 538 695
Swivel arm joint kit for 40x40 profiles	1	3 842 532 206
Swivel arm joint kit for 45x45 profiles	1	3 842 521 263
Swivel arm joint kit for 40x80 profiles	1	3 842 532 207
Swivel arm joint kit for 45x90 profiles	1	3 842 521 262

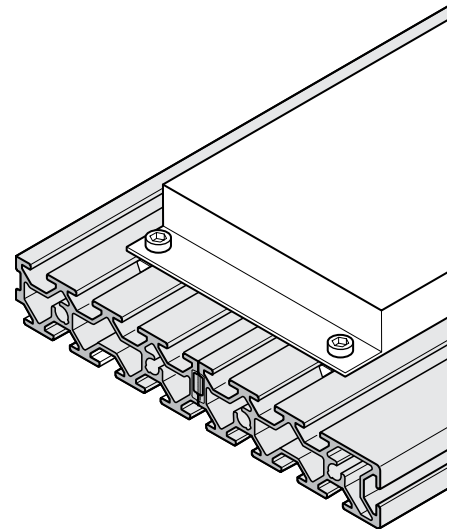
Section 11: Ergonomic Workplace Equipment

Fixture Plate Components



Features:

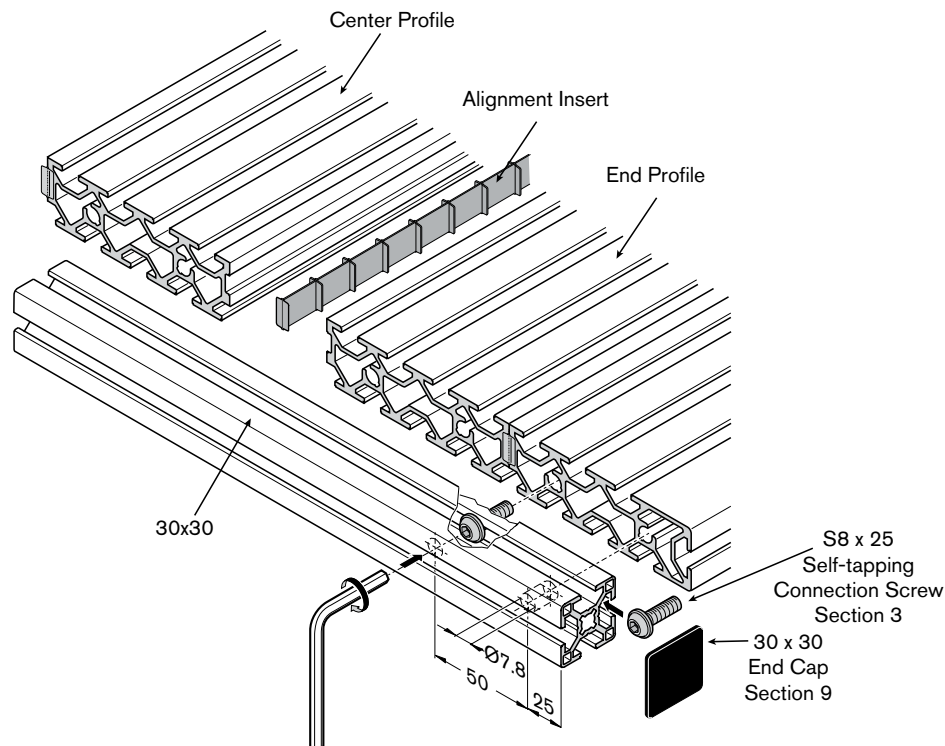
- Creates a surface with many evenly spaced T-slots to easily mount and re-locate assembly fixtures and prototype components
- Two 100mm wide interlocking profiles allow you to create a fixture plate as large as needed by combining end and center profiles
- Alignment inserts help maintain proper alignment during assembly
- Ends can be tied together using 30x30 profile and self-tapping screws (sold separately)
- T-slots use 8mm hardware however, cover strip is not compatible with fixture plate



Machining required:

- 7.8mm access holes in 30x30 profile, spaced every 50mm, starting 25mm from one end

Description	Lot Size	Part Number
End fixture plate -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$	1	3 842 993 337
Center fixture plate -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$	1	3 842 993 336
Alignment insert, 44mm long	1	3 842 520 922



Section 11: Ergonomic Workplace Equipment

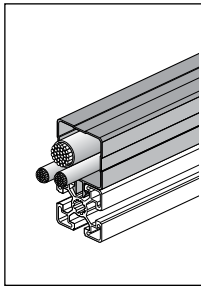
Notes

Section 12: Accessories

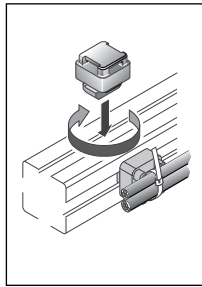
Overview

Creating flexibility in your workplace is easy when you customize with Bosch Rexroth accessories. Each item in the "Accessories" section is compatible with all

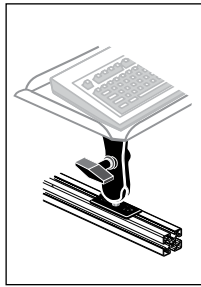
other elements in the Rexroth structural framing system. That means modifying existing structures and creating new ones is quick and easy.



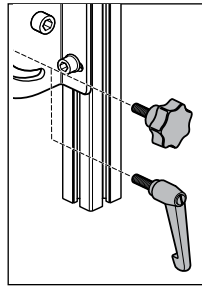
Cable Conduit & End Cap
12-1



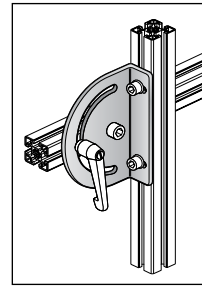
Cable Carrier
12-2



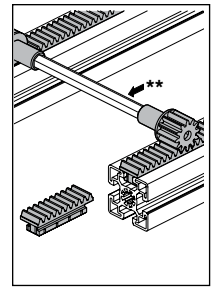
R-A-M® Mount
12-1



Star Knobs & Locking Levers
12-3



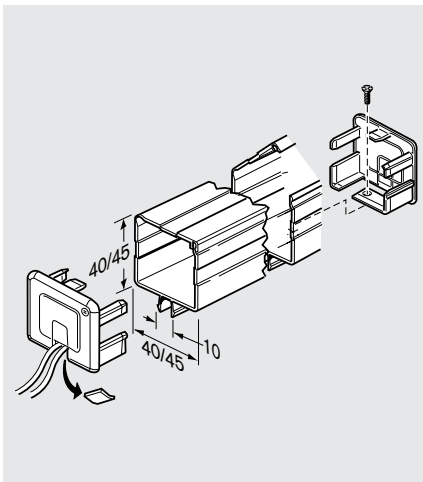
Swivel Bracket Kits
12-4



Rack & Pinion Components
12-5

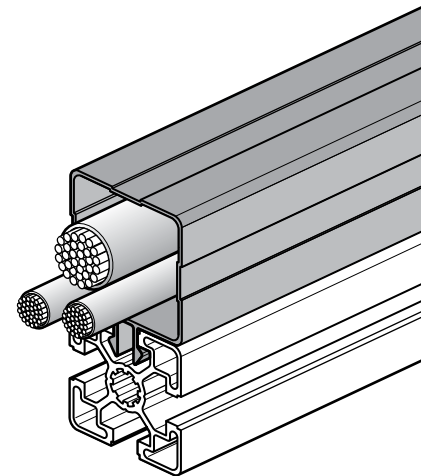
Accessories

Cable Conduit & End Cap **GoTo**



Features:

- Provides an attractive and protective conduit to hold several cables, electrical wires, etc. on profile structures
- Black plastic matches end caps and T-slot cover strips
- Clip-open top simplifies insertion and routing of cables, even on completed structures
- Snaps easily into the T-slot of 10mm T-slotted profiles
- Available in 40x40 size for 40-series profiles and in 45x45 size for 45-series profiles
- End caps (sold separately) clip into place or can be secured with a screw (included with cap)
- End caps feature removable tabs to allow easing routing of cables through conduit ends



Material:

- Cable conduit: black PVC plastic
- End caps: black polyamide 6

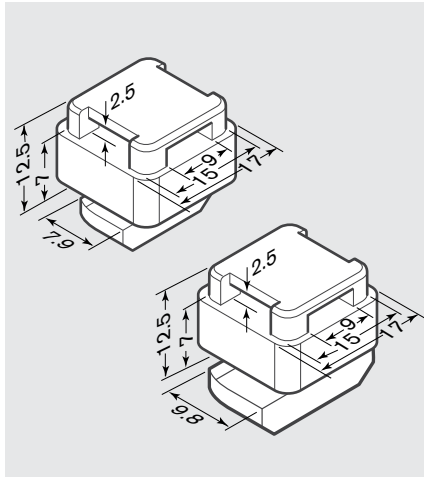
Description	Lot Size*	Part Number
Cable conduit 40x40, 2000mm long	1	3 842 532 363
End cap for cable conduit 40x40	10	3 842 535 921
Cable conduit 45x45, 2000mm long	1	3 842 523 014 <i>GoTo</i>
End cap for cable conduit 45x45	10	3 842 535 676

* For smaller quantities, please contact your local distributor.

Section 12: Accessories

Accessories

Cable Carrier **GoTo**

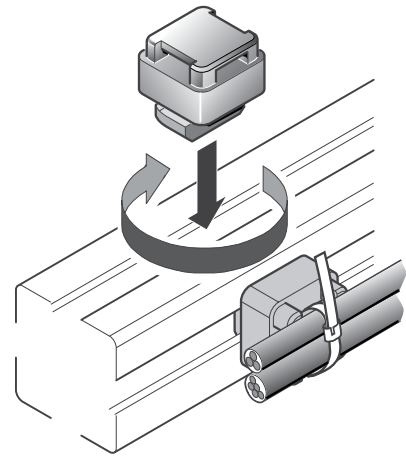


Features:

- Attach electrical wires or pneumatic tubing directly to a structure's frame using a standard wire tie
- Simple twist-lock installation makes them easy to install and remove
- Available for 8mm and 10mm T-slots

Material:

- Black polyamide

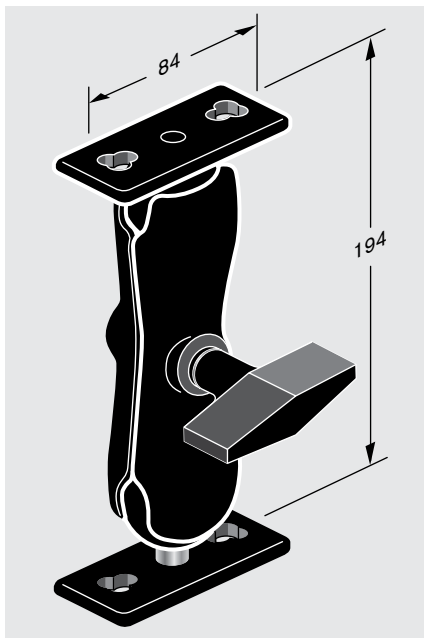


Description

Part Number

Cable carrier for 8mm T-slots	1	3 842 526 565 <i>GoTo</i>
Cable carrier for 10mm T-slots	1	3 842 526 564 <i>GoTo</i>

R-A-M® Mount

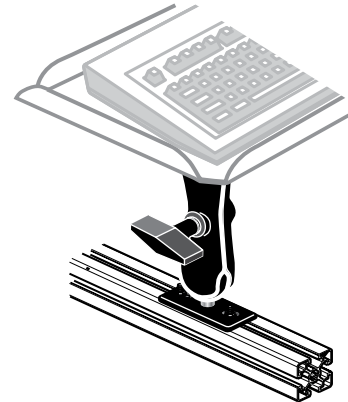


Features:

- Provides a fully adjustable, two-joint connection between two surfaces
- Locking handle secures the R-A-M mount in the desired position
- Perfect for fixturing or adjustable equipment mounts
- T-bolt fastening kit for installation profile sold separately (see Section 4)

Material:

- Mounting plates and R-A-M mount body: black die-cast aluminum
- Adjustment balls: rubber
- Hardware: stainless steel



Description

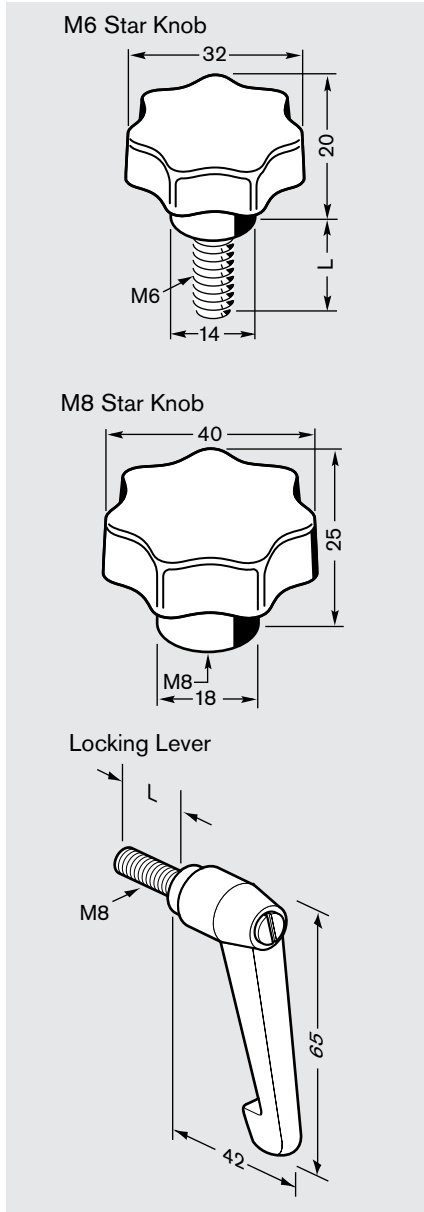
Lot Size

Part Number

R-A-M® mount	1	8 981 019 573
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Section 12: Accessories

Star Knobs and Locking Levers

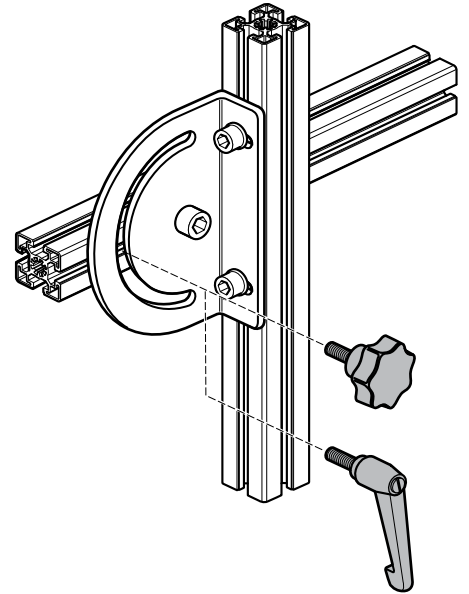


Features:

- Use star knobs or locking levers on multi-angle connectors and T-fasteners to allow quick and easy changes
- Star knobs are available with M6 threaded shafts in two lengths: 15mm and 20mm
- Star knob with M8 internal threads is available for use with T-bolts and other screws with M8 threads
- Locking levers are available with M8 threaded shafts in four lengths: 12mm, 20mm, 40mm, and 55mm

Material:

- Lever and knob: polyamide
- Lever spindle: pressure die-cast zinc
- Threaded stem: galvanized steel class 5.8

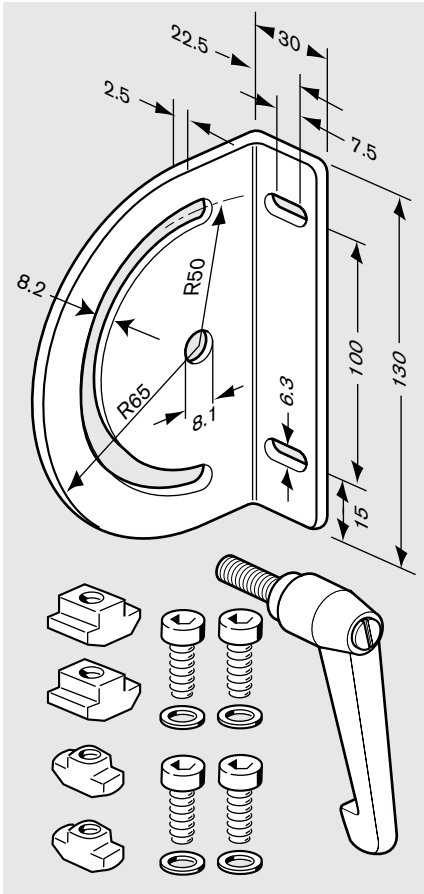


Description	Lot Size	Part Number
M6 star knob with stem L = 15mm	1	3 842 516 849
M6 star knob with stem L = 20mm	1	3 842 516 850
M8 star knob with internal threads	1	3 842 516 851
M8 locking lever with stem L = 12mm	1	3 842 516 845
M8 locking lever with stem L = 20mm	1	3 842 516 846
M8 locking lever with stem L = 40mm	1	3 842 516 847
M8 locking lever with stem L = 55mm	1	3 842 516 848

Section 12: Accessories

Accessories

Swivel Bracket Kits

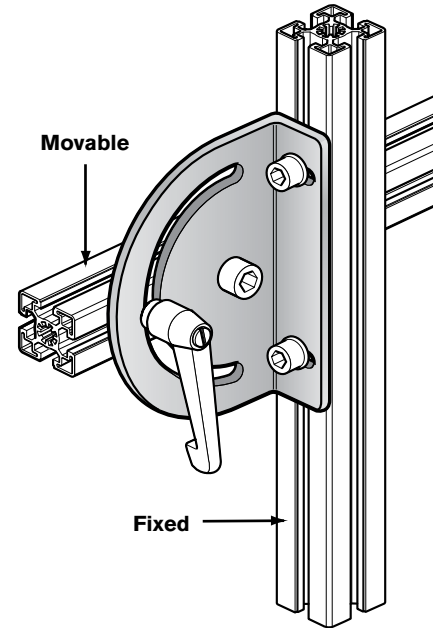








Features:

- Ideal for attaching shelves, fixtures, etc. that can be positioned at variable angles and locked in place
- Allows up to 180° range of motion
- Can handle moments (FxL) up to $m_{max} = 40Nm$
- Select swivel bracket kit by T-slot size of movable profile and fixed profile
- Include bracket, locking lever, all necessary mounting hardware, and instruction sheet





Material:


- Swivel bracket: galvanized steel
- Locking lever handle: black polyamide
- Spindle: pressure die-cast zinc
- Hardware: zinc-plated steel
- Threaded stem: galvanized steel class 5.8

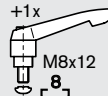



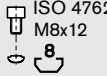

Description	P1 ⇒ P2	Lot Size	Part Number
Movable Swivel bracket kit A	 ⇒   ⇒ 	1	3 842 538 275
Movable Swivel bracket kit B	 ⇒   ⇒ 	1	3 842 538 276



A

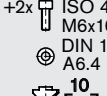

 ⇒   ⇒ 







+1x  


ISO 4762  

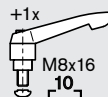

+2x ISO 4762  
DIN 125
A6.4



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DIN 125
A6.4



B

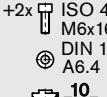

 ⇒   ⇒ 



+1x  

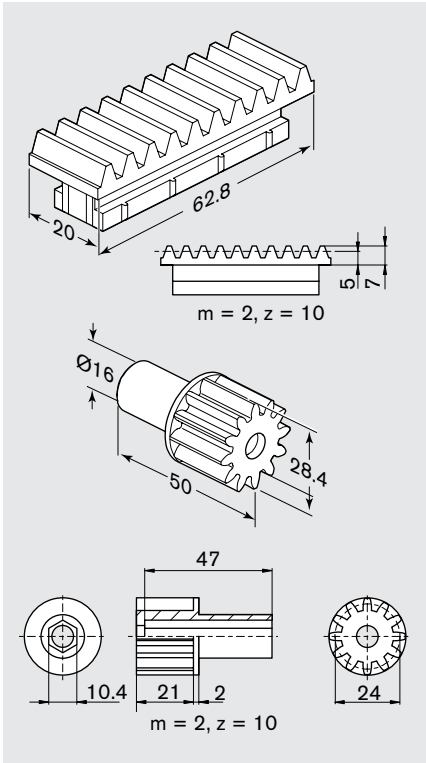
ISO 4762  

+2x ISO 4762  
DIN 125
A6.4

+2x ISO 4762  
DIN 125
A6.4

Section 12: Accessories

Rack and Pinion Components 

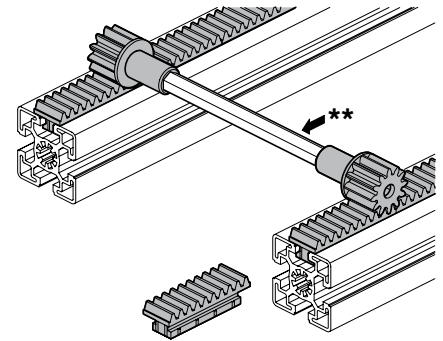


Features:

- Used for synchronized or controlled movement of components
- Pinion gear presses onto standard 10mm hex shaft
- Rack inserts fit into a 10mm T-slot and provide a snug fit to ensure smooth, controlled movement

Material:

- Pinion gear: white polyoxymethylene
- Rack: black polyamide



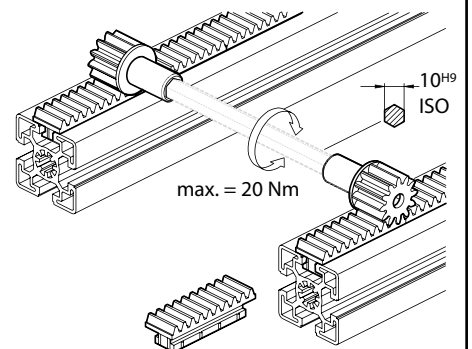
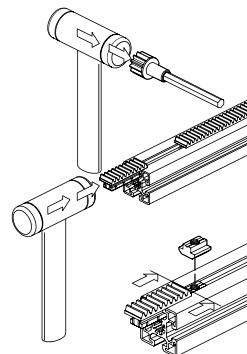
Description	Lot Size*	Part Number
Pinion (for use with 10mm hex shaft)	1	3 842 501 576
Rack insert for 10mm T-slot	10	3 842 501 578

* For smaller quantities, please contact your local distributor.

** Drive shaft not included

Assembly Note

Use a soft-faced hammer to tap the pinion gear onto the hex shaft and to tap the racks into the profile's T-slot.



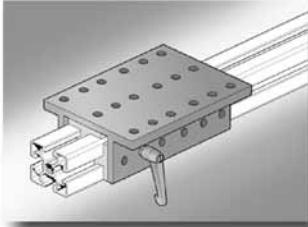
Depending on your application, you may want to use 10mm T-blocks at each end to lock the rack inserts in place.

Section 12: Accessories

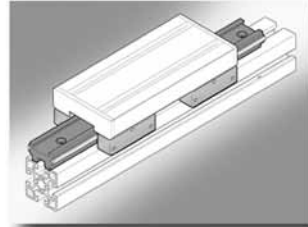
Notes

Rexroth Makes Linear Motion Easy

Selecting the right linear motion solution can be a challenge, and is dependent on a variety of factors. Rexroth offers solutions to fit your design, accuracy, and budget needs:



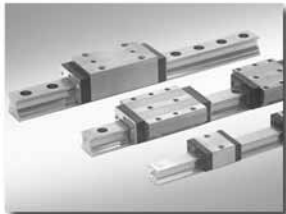
1 The EcoSlides™ in Section 13 offer a manually-powered, low-cost solution.



2 Dynamic Linear Elements, in Section 14 of this catalog, provide precise linear motion using standardized modular components.

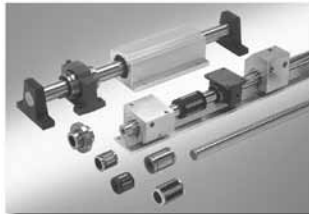


3 Rexroth's Linear Motion and Assembly Technologies offers a linear motion product for virtually any application. Whether you need speed, accurate repeatability, high payload capacity, or all of the above, Rexroth has linear motion products to fit your needs. Just call 800-438-5983 and ask to speak with one of our linear motion specialists, or request a copy of Linear Motion Resource CD.



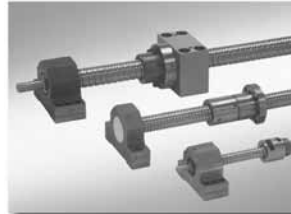
Profiled Rail Systems

Ideal precision for almost any task that demands accurate linear motion. Ball Rail® and Roller Rail® Systems are available in a broad range of accuracy classes and feature high load capacities and high rigidity, even in miniature sizes. Choose from a nearly infinite combination of guide rails and runner blocks to build the exact assembly you need.



Linear Bushings and Shafts

Still the global leader, Bosch Rexroth pioneered metric linear bushings and shafts. We offer over 6,000 inch and metric sizes, including miniatures, to meet all demands and operating parameters. For transferring heavy loads between stations, Rexroth Ball Transfer Units feature high load capacities with fewer units per application, saving material, installation, and maintenance costs.



Precision Ball-Screw Assemblies

Precision ball-screw assemblies work with high accuracy and speed—up to twice as fast as industry-standard screws. They are available for fast delivery—regardless of your requirements for precision, our lead times are typically *half* the industry norm.



Linear Modules and Multi-Axis Systems

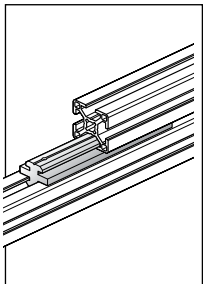
Design and assemble faster and more efficiently with linear modules. Instead of designing from several components, let Bosch Rexroth build a ready-made module or system to incorporate into your design. You will receive a system that is engineered for optimum performance, reliability, and easy assembly into your machine.

Section 13: EcoSlide™ Linear Sliding Carriages and Bearings

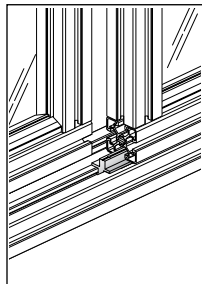
Overview

Rexroth EcoSlides™, along with slider bearings and profile sliders, provide an inexpensive way to create precise linear motion.

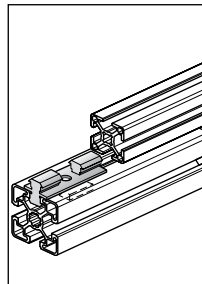
Ideal for applications such as sliding doors and manual guides, Rexroth linear sliding elements and bearings provide durability and ease of use, without high cost.



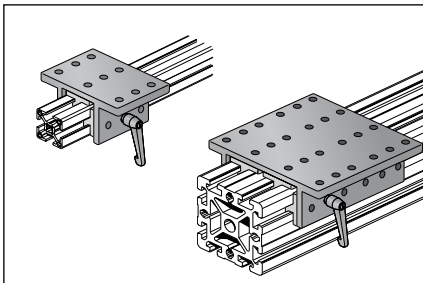
6mm & 8mm
Slide Bearings
13-2



10mm
Slide Bearings
13-3



Profile Slider
13-4

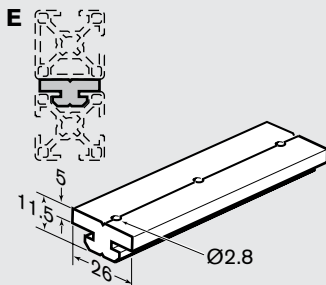
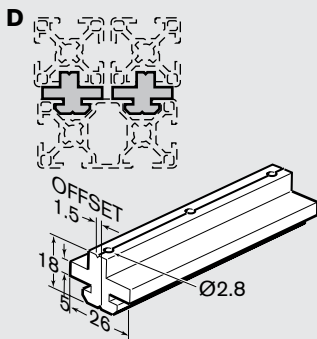
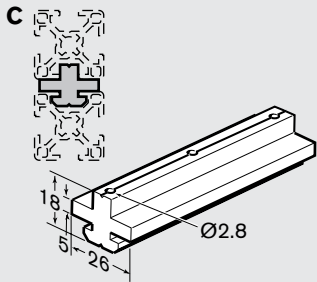
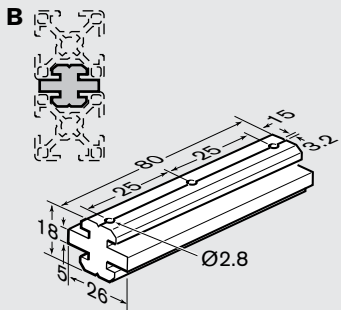
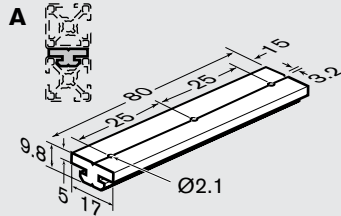


EcoSlides™
13-5 to 13-9

Section 13: EcoSlide™ Linear Sliding Carriages and Bearings

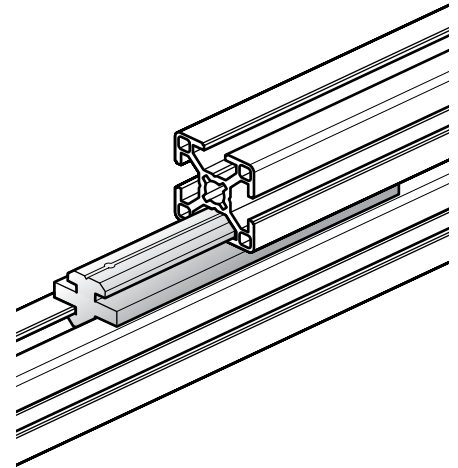
Profile Sliders and Bearings

Slide Bearings—6mm and 8mm 6 8



Features:

- Economical, low-wear slider bearings suitable for drawers and sliding or lifting doors
- Ideal applications where two profiles need to be moved manually along the same plane
- Offset slider D allows for multiple sliding elements, such as overlapping doors or windows
- Bearings made with Delrin® for low friction and long service life
- 6mm bearings are predrilled with 2.1mm diameter mounting holes (holes are NOT tapped)
- 8mm bearings are predrilled with 2.8mm diameter mounting holes (holes are NOT tapped)



Description	Lot Size	Part Number
A 6mm slide bearing, flat	1	3 842 523 213
B 8mm-to-8mm slide bearing	1	3 842 523 209
C 8mm slide bearing	1	3 842 523 210
D 8mm slide bearing, offset	1	3 842 523 211
E 8mm slide bearing, flat	1	3 842 523 212

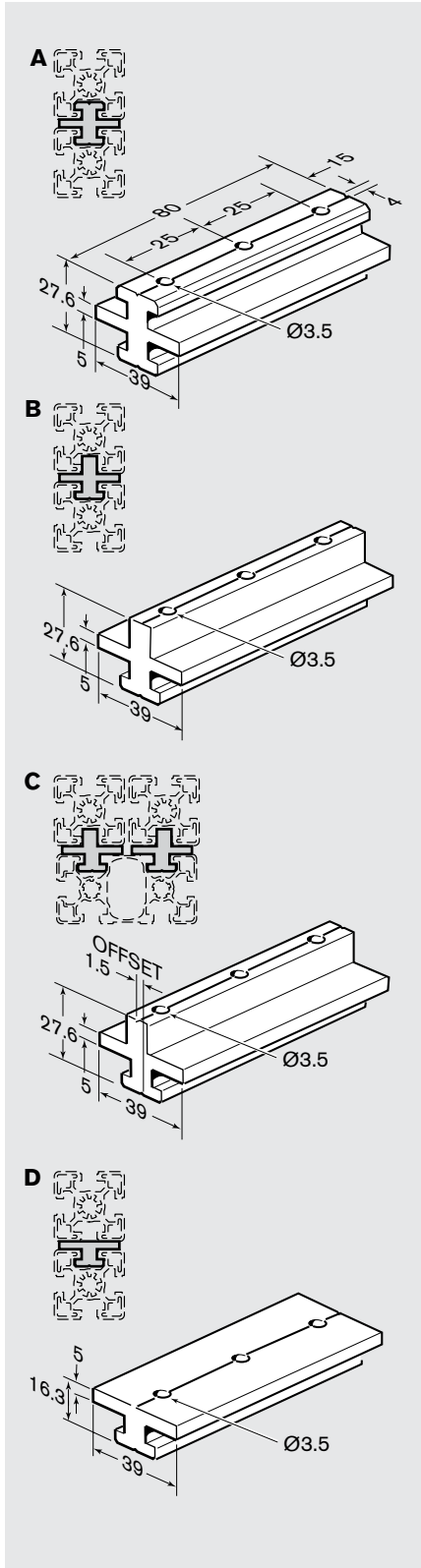
Assembly Note

$$\frac{P_v \times A}{S} = \text{Expected Life} / \text{Load for Delrin bearings}$$

- P_v = 3000 (Delrin)
- A = Surface area of bearing in mm²
- S = Speed in millimeters per minute

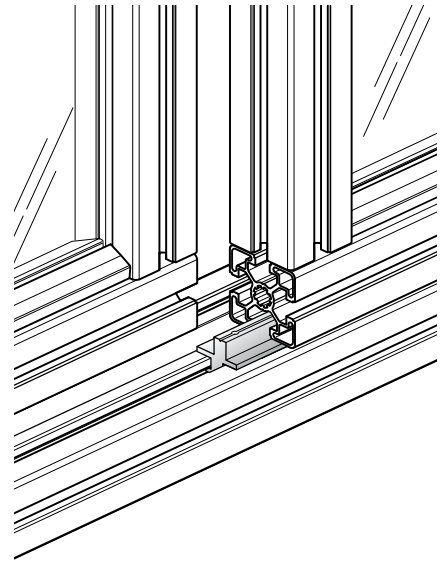
Section 13: EcoSlide™ Linear Sliding Carriages and Bearings

Slide Bearings—10mm 



Features:

- Economical, low-wear slider bearings suitable for drawers and sliding or lifting doors
- Ideal applications where two profiles need to be moved manually along the same plane
- Offset slider D allows for multiple sliding elements, such as overlapping doors or windows
- Bearings made with Delrin® for low friction and long service life
- 10mm bearings are predrilled with 3.5mm diameter mounting holes (holes are NOT tapped)



Description	Lot Size	Part Number
A 10mm-to-10mm slide bearing	1	3 842 523 205
B 10mm slide bearing	1	3 842 523 206
C 10mm slide bearing, offset	1	3 842 523 207
D 10mm slide bearing, flat	1	3 842 530 329

Assembly Note

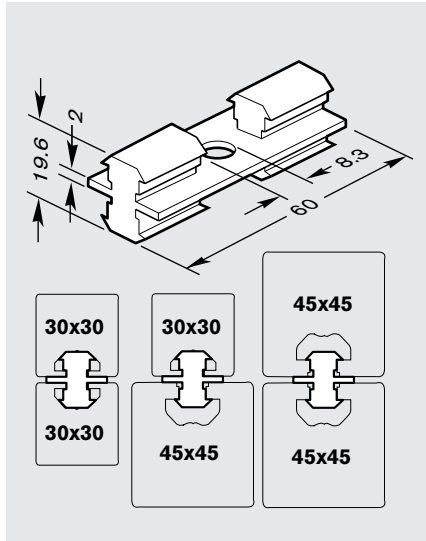
$$\frac{P_V \times A}{S} = \text{Expected Life} / \text{Load for Delrin bearings}$$

- $P_V = 3000$ (Delrin)
- $A =$ Surface area of bearing in mm^2
- $S =$ Speed in millimeters per minute

Section 13: EcoSlide™ Linear Sliding Carriages and Bearings

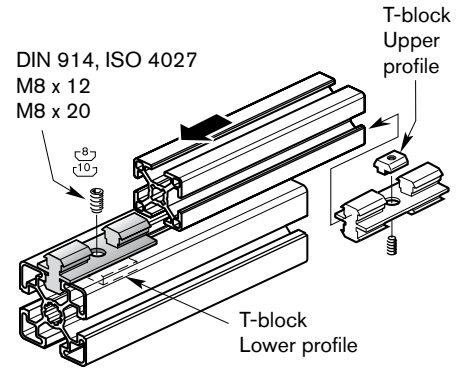
Profile Sliders and Bearings

Profile Slider 8 10



Features:

- Economical, low-wear slider bearings suitable for sliding or lifting doors
- Provide a smooth sliding surface and serve as stops when two sliders meet
- Mount into 8mm or 10mm T-slots using an appropriately sized T-block and set screw (sold separately)
- Bearings made with Delrin® for low friction and long service life
- 10mm bearings are predrilled with 3.5mm diameter mounting holes (holes are NOT tapped)



Description	Lot Size	Part Number
Profile slider	1	3 842 513 517

Section 13: EcoSlide™ Linear Sliding Carriages and Bearings

EcoSlides™

EcoSlides  

EcoSlides™ are economical linear bearings for precise positioning. Each EcoSlide bearing uses Delrin® bearing pads for maximum loading. Delrin® bearing pads absorb less moisture and are less sensitive to high temperatures and harsh environments than alternative materials. Capable of locking in position with the optional locking handle, EcoSlide bearings are available for use with several profile sizes.

For a locking handle, a 9mm dia. hole must be drilled and bearing must be milled per drawing specifications.

Features:

- Heavy loading
- Delrin® bearing pads
- Easy assembly

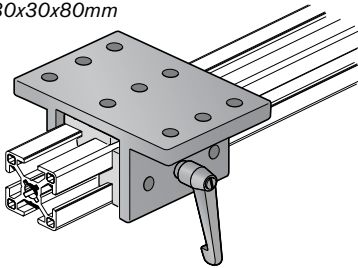
Machining Required:

- 4mm tap in Delrin® for M4x12 fastening screws
- 9mm hole and milled slot per specifications on individual bearing pages for mounting optional locking handle

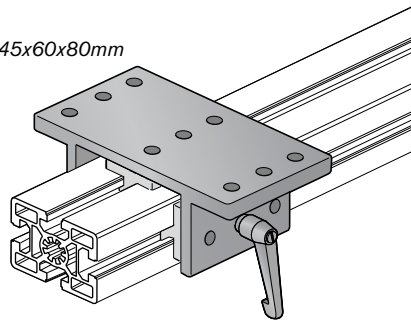
Material:

- EcoSlide™ carriage: 6063-T6 natural anodized aluminum
- EcoSlide™ bearing: Delrin® 100 coefficient of friction: 0.12%
- Locking handle lever: polyamide anthracite
Locking handle spindle: pressure die-cast zinc
Locking handle stem: galvanized steel 5.8
- T-blocks: galvanized steel

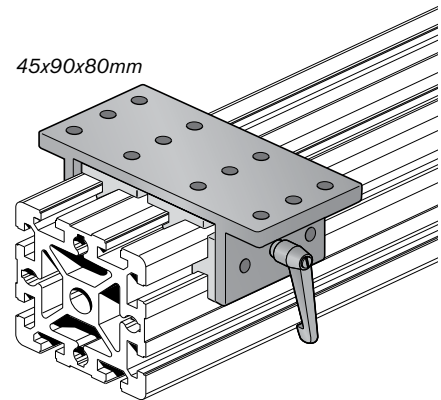
30x30x80mm



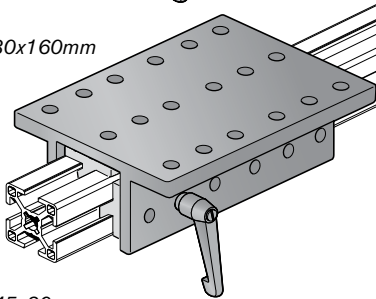
45x60x80mm



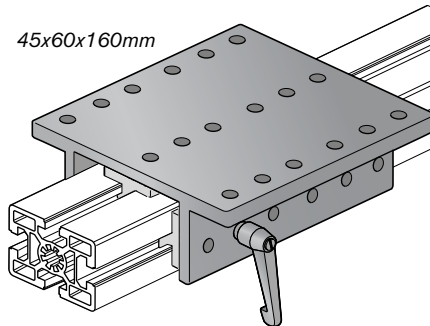
45x90x80mm



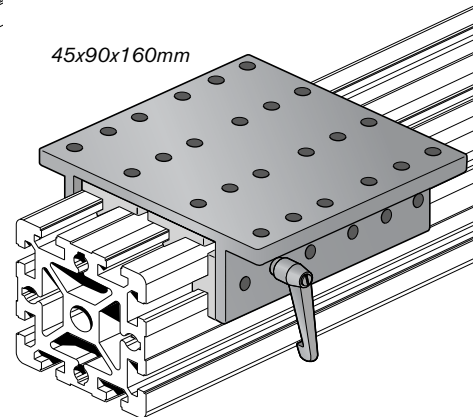
30x30x160mm



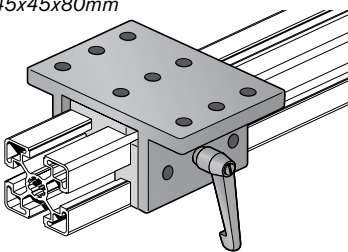
45x60x160mm



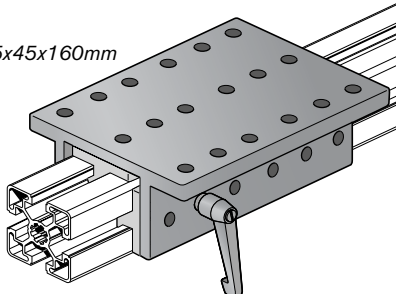
45x90x160mm



45x45x80mm



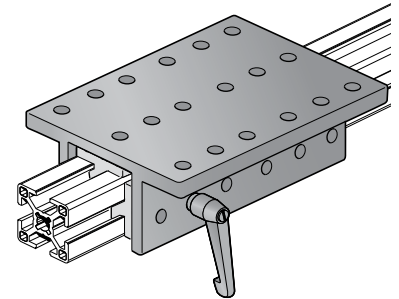
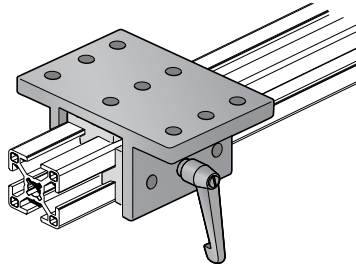
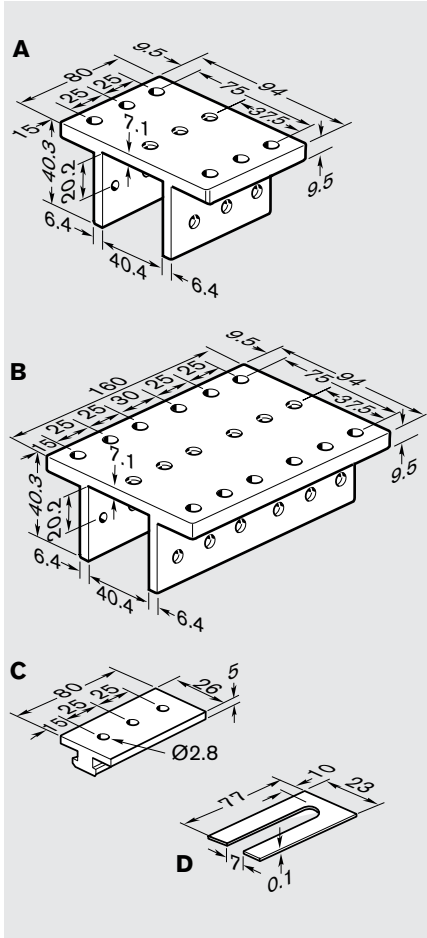
45x45x160mm



Section 13: EcoSlide™ Linear Sliding Carriages and Bearings

EcoSlides™

EcoSlides for 30-series Profiles



30x30x80mm:

- For use with 30-series profiles, including 30x30 and 30x60
- Safe load capacity of EcoSlide carriage is 747 N at 12m/min

30x30x160mm:

- For use with 30-series profiles, including 30x30 and 30x60
- Safe load capacity of EcoSlide carriage is 1494 N at 12m/min

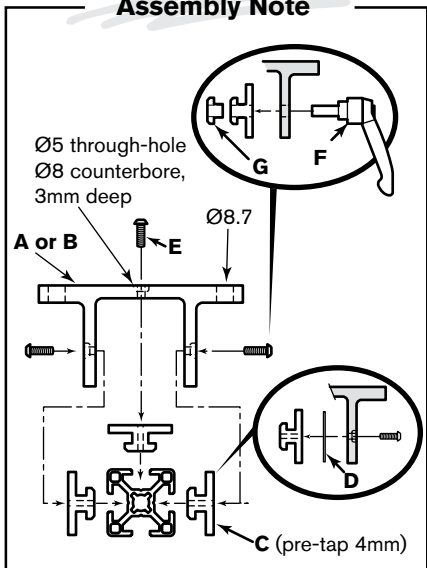
Components for 30x30x80 EcoSlide	Quantity Required
A 30x30x80 EcoSlide carriage	1
C 8mm EcoSlide bearing	3
D 8mm bearing shim	as needed
E M4x12 ISO 7380 BHCS	9
F Locking handle, 20mm	optional
G 8mm M8 T-block	optional

Components for 30x30x160 EcoSlide	Quantity Required
B 30x30x160 EcoSlide carriage	1
C 8mm EcoSlide bearing	6
D 8mm bearing shim	as needed
E M4x12 ISO 7380 BHCS	18
F Locking handle, 20mm	optional
G 8mm M8 T-block	optional

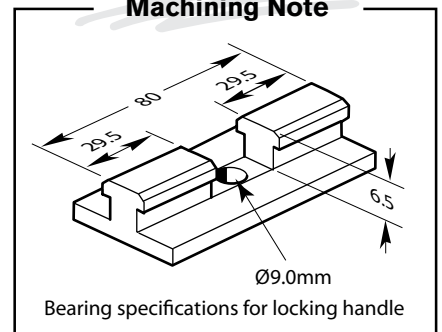
Description	Lot Size*	Part Number
A 30x30x80 EcoSlide carriage	1	8 981 535 476
B 30x30x160 EcoSlide carriage	1	8 981 535 477
C 8mm EcoSlide bearing, flat	1	3 842 523 212
D 8mm bearing shim, 0.1mm thick	4	8 981 535 891
E M4x12 ISO 7380 BHC screw	1	3 842 510 156
F Locking lever, 20mm (optional for locking)	1	3 842 516 846
G 8mm M8 T-block (optional for locking)	1	3 842 514 931

* For smaller quantities, please contact your local distributor.

Assembly Note

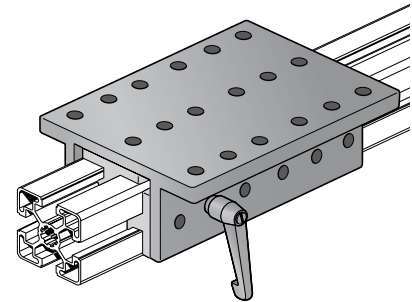
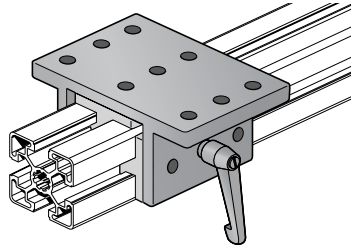
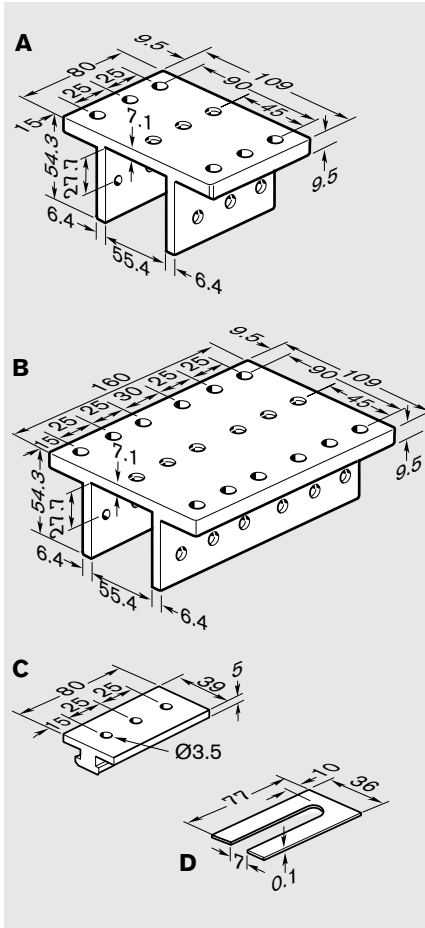


Machining Note



Section 13: EcoSlide™ Linear Sliding Carriages and Bearings

EcoSlides for 45-series Profiles 10



45x45x80mm:

- For use with 45-series profiles, including 45x45, 45x45H, 45x90, 45x90H, and 45x180
- Safe load capacity of EcoSlide carriage is 1205 N at 12m/min

45x45x160mm:

- For use with 45-series profiles, including 45x45, 45x45H, 45x90, 45x90H, and 45x180
- Safe load capacity of EcoSlide carriage is 2410 N at 12m/min

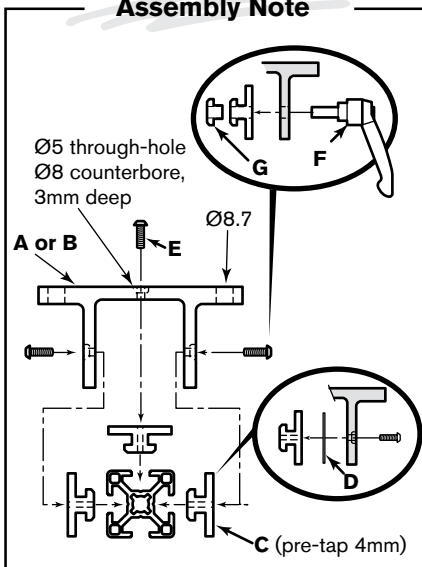
Components for 45x45x80 EcoSlide	Quantity Required
A 45x45x80 EcoSlide carriage	1
C 10mm EcoSlide bearing	3
D 10mm bearing shim	as needed
E M4x12 ISO 7380 BHCS	9
F Locking handle, 20mm	optional
G 10mm M8 T-block	optional

Components for 45x45x160 EcoSlide	Quantity Required
B 45x45x160 EcoSlide carriage	1
C 10mm EcoSlide bearing	6
D 10mm bearing shim	as needed
E M4x12 ISO 7380 BHCS	18
F Locking handle, 20mm	optional
G 10mm M8 T-block	optional

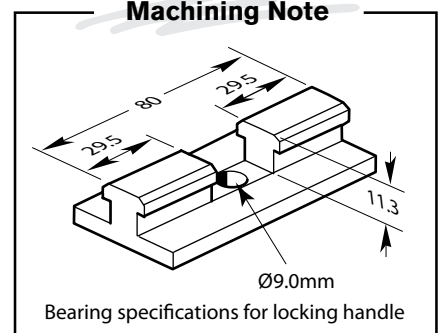
Description	Lot Size*	Part Number
A 45x45x80 EcoSlide carriage	1	8 981 535 323
B 45x45x160 EcoSlide carriage	1	8 981 535 324
C 10mm EcoSlide bearing, flat	1	3 842 530 329
D 10mm bearing shim, 0.1mm thick	4	8 981 535 890
E M4x12 ISO 7380 BHC screw	1	3 842 510 156
F Locking lever, 20mm (optional for locking)	1	3 842 516 846
G 10mm M8 T-block (optional for locking)	1	3 842 528 735

* For smaller quantities, please contact your local distributor.

Assembly Note



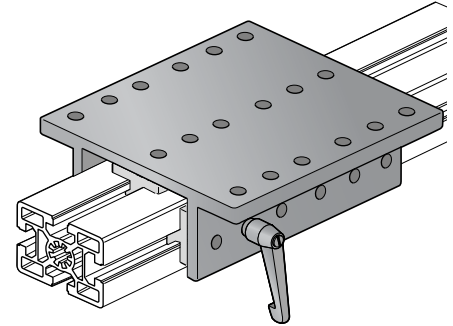
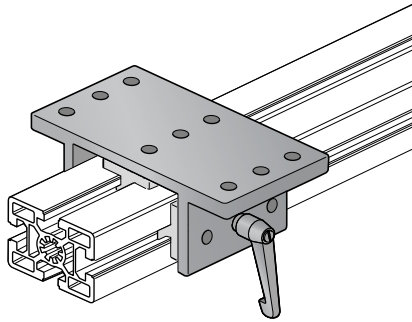
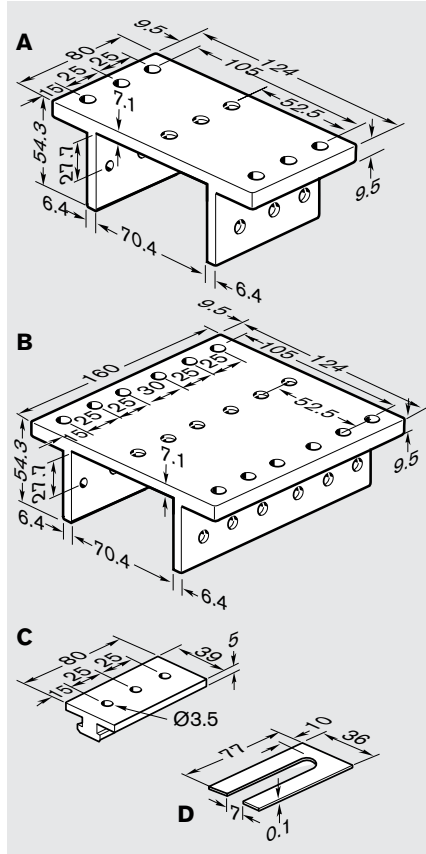
Machining Note



Section 13: EcoSlide™ Linear Sliding Carriages and Bearings

EcoSlides™

EcoSlides for 45x60H Profile



45x60x80mm:

- For use with 45x60H profile
- Safe load capacity of EcoSlide carriage is 1205 N at 12m/min

45x60x160mm:

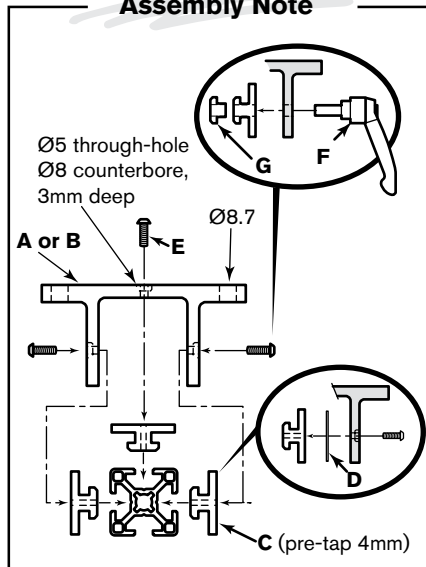
- For use with 45x60H profile
- Safe load capacity of EcoSlide carriage is 2410 N at 12m/min

Components for 45x90x80 EcoSlide	Quantity Required
A 45x90x80 EcoSlide carriage	1
C 10mm EcoSlide bearing	3
D 10mm bearing shim	as needed
E M4x12 ISO 7380 BHCS	9
F Locking handle, 20mm	optional
G 10mm M8 T-block	optional

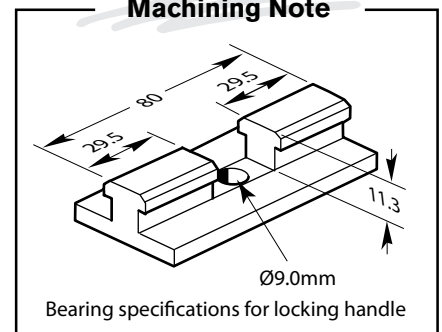
Components for 45x60x160 EcoSlide	Quantity Required
B 45x60x160 EcoSlide carriage	1
C 10mm EcoSlide bearing	6
D 10mm bearing shim	as needed
E M4x12 ISO 7380 BHCS	18
F Locking handle, 20mm	optional
G 10mm M8 T-block	optional

Description	Lot Size	Part Number
A 45x60x80 EcoSlide carriage	1	8 981 535 478
B 45x60x160 EcoSlide carriage	1	8 981 535 479
C 10mm EcoSlide bearing, flat	1	3 842 530 329
D 10mm bearing shim, 0.1mm thick	4	8 981 535 890
E M4x12 ISO 7380 BHC screw	1	3 842 510 156
F Locking lever, 20mm (optional for locking)	1	3 842 516 846
G 10mm M8 T-block (optional for locking)	1	3 842 528 735

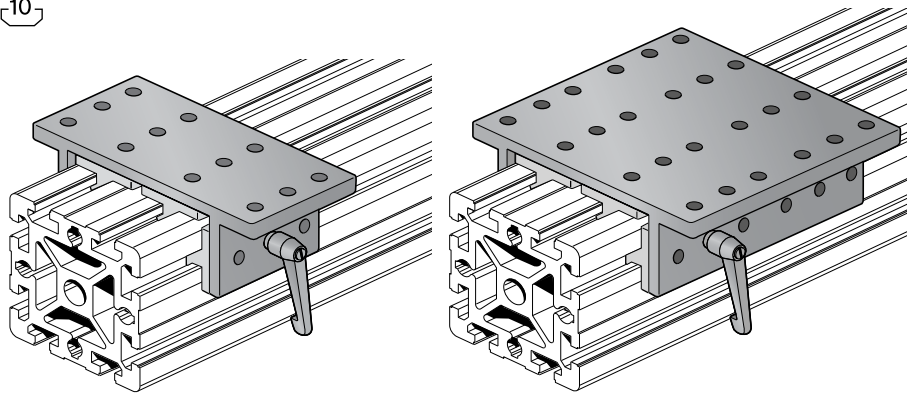
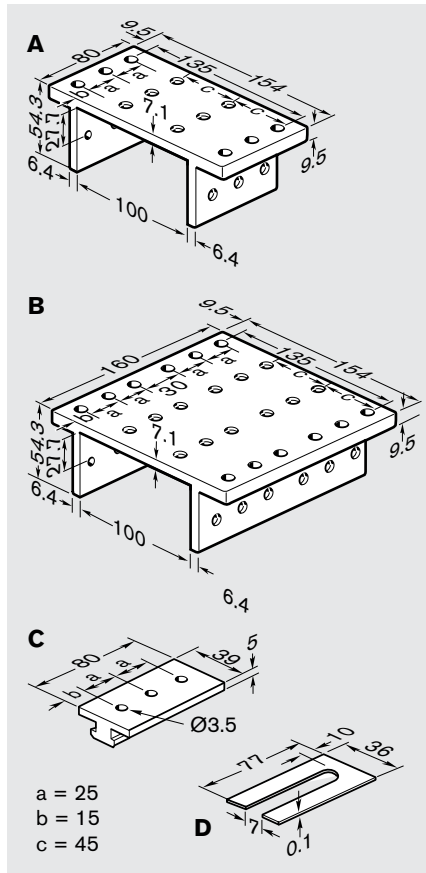
Assembly Note



Machining Note



EcoSlides for 90-series Profiles ¹⁰



45x90x80mm:

- For use with 90-series profiles, including 45x90, 45x90H, 90x90, and 90x90H profile
- Safe load capacity of EcoSlide carriage is 2410 N at 12m/min

45x90x160mm:

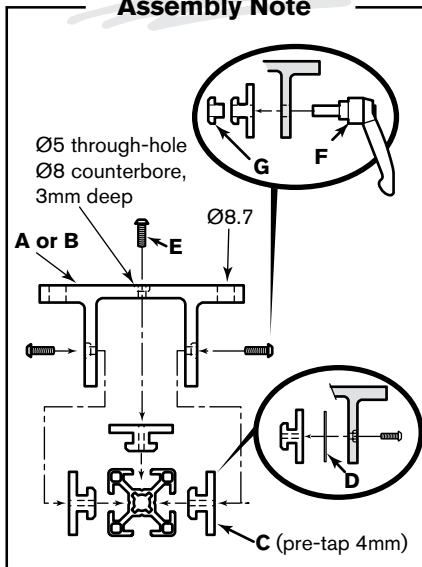
- For use with 90-series profiles, including 45x90, 45x90H, 90x90, and 90x90H profile
- Safe load capacity of EcoSlide carriage is 4817 N at 12m/min

Components for 45x90x80 EcoSlide	Quantity Required
A 45x90x80 EcoSlide carriage	1
C 10mm EcoSlide bearing	3
D 10mm bearing shim	as needed
E M4x12 ISO 7380 BHCS	9
F Locking handle, 20mm	optional
G 10mm M8 T-block	optional

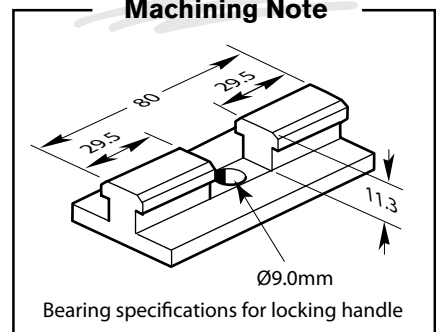
Components for 45x90x160 EcoSlide	Quantity Required
B 45x90x160 EcoSlide carriage	1
C 10mm EcoSlide bearing	8
D 10mm bearing shim	as needed
E M4x12 ISO 7380 BHCS	24
F Locking handle, 20mm	optional
G 10mm M8 T-block	optional

Description	Lot Size	Part Number
A 45x90x80 EcoSlide carriage	1	8 981 535 325
B 45x90x160 EcoSlide carriage	1	8 981 535 326
C 10mm EcoSlide bearing, flat	1	3 842 530 329
D 10mm bearing shim, 0.1mm thick	4	8 981 535 890
E M4x12 ISO 7380 BHC screw	1	3 842 510 156
F Locking lever, 20mm (optional for locking)	1	3 842 516 846
G 10mm M8 T-block (optional for locking)	1	3 842 528 735

Assembly Note



Machining Note



Section 14: Dynamic Linear Elements

Overview

Bosch Rexroth Dynamic Linear Elements (DGE) have been redesigned to make them more durable and easier to install. Bosch Rexroth Dynamic Linear Elements provide precise linear motion using standard modular components. Standardized modular components allow you to build custom length linear units in minimum time using simple hand tools.

Three standard sizes are available, capable of handling dynamic loads up to 12,500 N (2810 lbs) for even heavy-duty applications. The use of stepper motors allows an incredible degree of precision and repeatability in automated assembly applications, with positioning repeatability up to 0.05 mm (0.002")†.

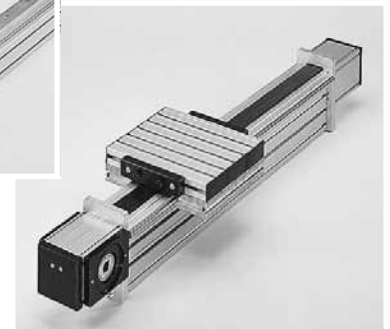
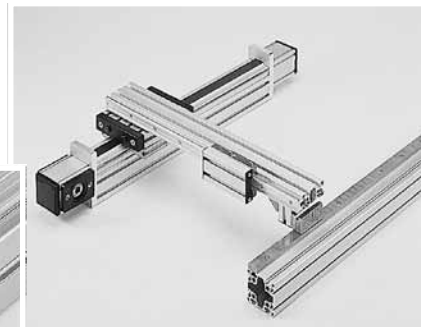
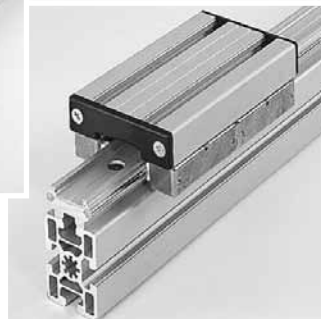
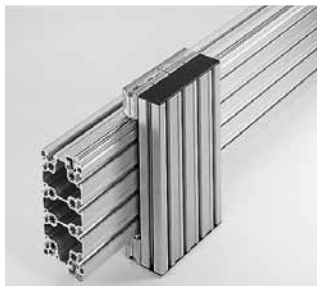
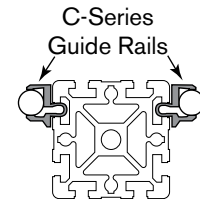
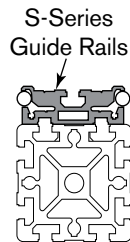
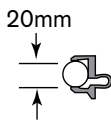
Technical assistance designing a linear motion system is available through your Bosch Rexroth distributor. Your distributor can provide helpful guidelines and tips for designing and maintaining a linear motion system suited to your needs.

†Repeatability must be calculated to include all components contributing to linear movement (i.e., motors); 0.05mm pertains to Bosch Rexroth components only.

When selecting the correct size and style of dynamic linear elements, there are two key factors to keep in mind. Each model number contains a number that indicates the diameter of the hardened steel guide rail. For example, an LF20 linear guide uses a guide rail that is 20mm in diameter.

Within each size range, there are also two styles of linear elements: S and C. The S series (LF6S, LF12S, LF20S) uses a guide profile that can be mounted to a section of structural profile or a flat plate. This style features a particularly high guide accuracy.

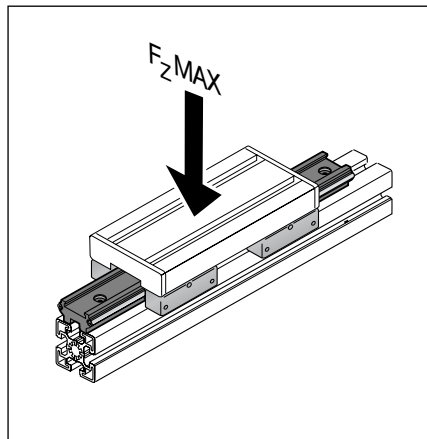
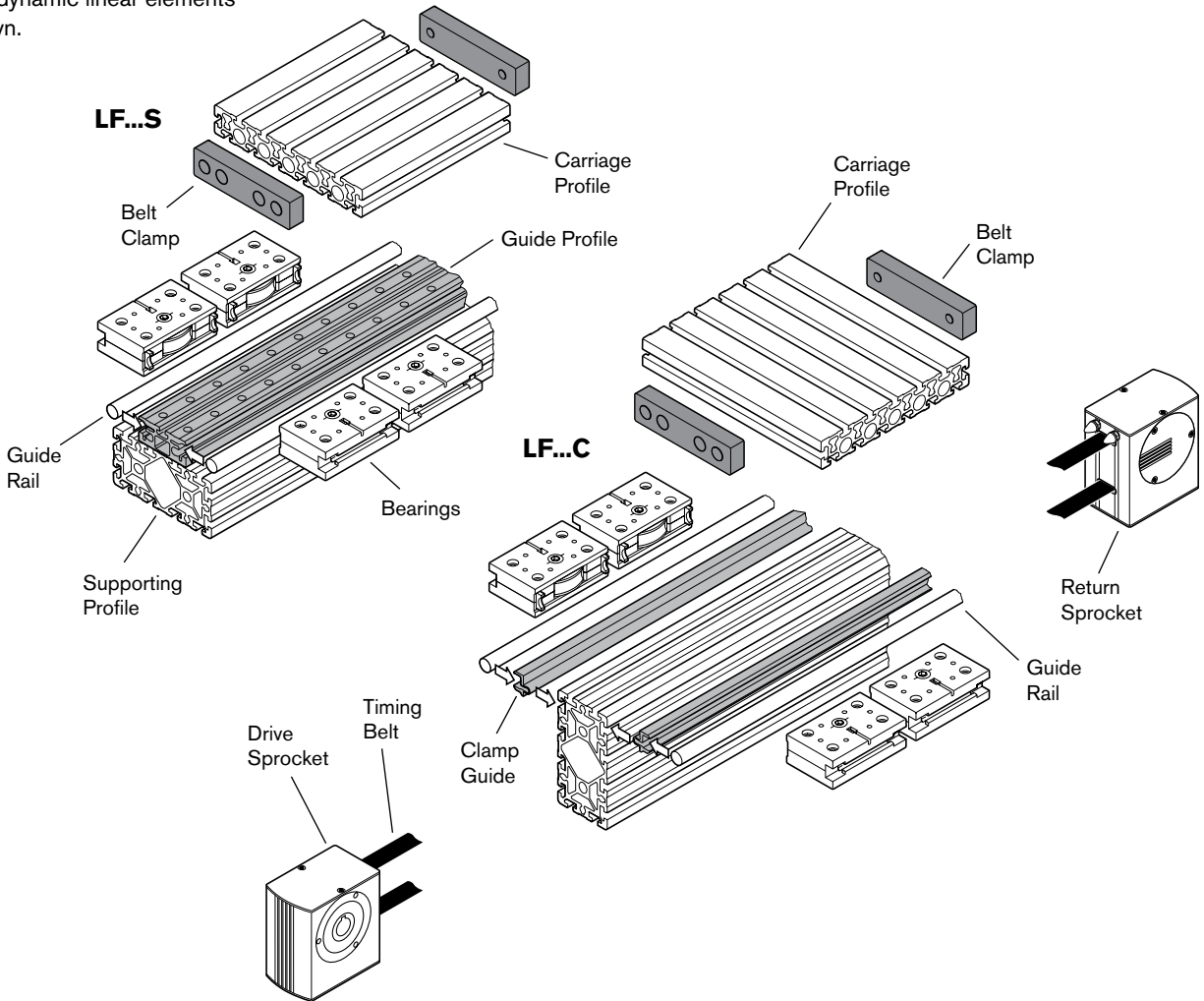
The C series (LF6C, LF12C, and LF20C) uses guide rails that are clamped or pressed into the 10mm T-slots of various structural profiles. With this style, track width can be selected to accommodate a wide range of sizes and loads.



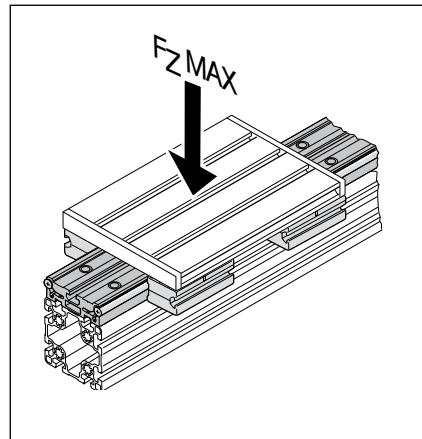
Section 14: Dynamic Linear Elements

Dynamic Linear Elements—Main Components

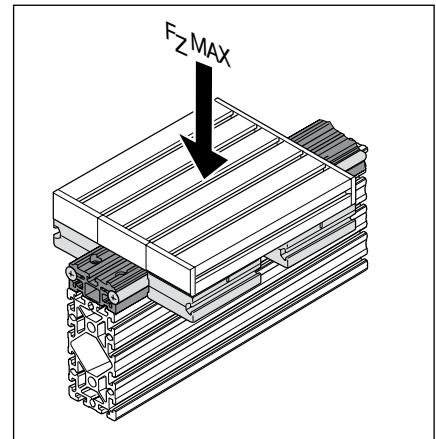
The main components of the Bosch Rexroth dynamic linear elements are shown.



LF6S and LF6C
6mm Guide Rail
 $F_{z,MAX}$ 850 N (191 lbs)
 $F_{y,MAX}$ 1400 N (314 lbs)
14-4 to 14-11



LF12S and LF12C
12mm Guide Rail
 $F_{z,MAX}$ 2,000 N (449 lbs)
 $F_{y,MAX}$ 3,500 N (786 lbs)
14-12 to 14-19



LF20S and LF20C
20mm Guide Rail
 $F_{z,MAX}$ 6,000 N (1,348 lbs)
 $F_{y,MAX}$ 12,500 N (2,810 lbs)
14-20 to 14-27

Section 14: Dynamic Linear Elements

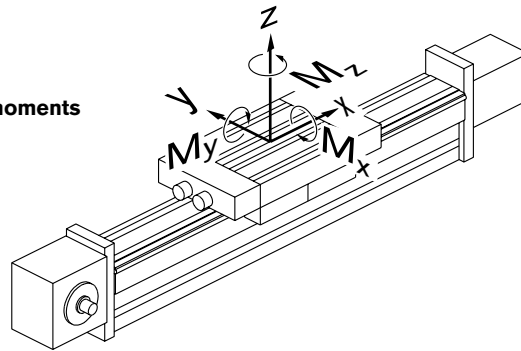
Linear Guides

Size Selection

1. Determine the applied forces and moments

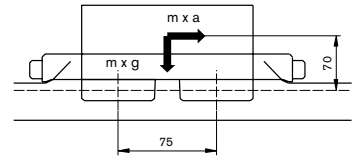
$$F_{x \text{ dyn.}} \quad F_{y \text{ dyn.}} \quad F_{z \text{ dyn.}}^*$$

$$M_{x \text{ dyn.}} \quad M_{y \text{ dyn.}} \quad M_{z \text{ dyn.}}$$



* $F_{z \text{ dyn}}$ includes the weight of the trolley

Example:



$$m = 30 \text{ kg}; \quad a = 2.5 \text{ m/s}^2; \quad g = 9.81 \text{ m/s}^2$$

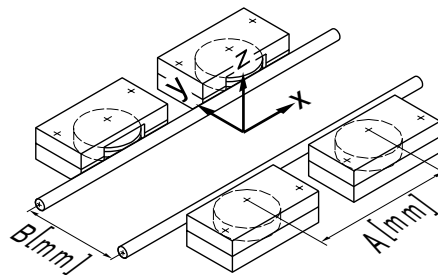
$$L_1 = 150 \text{ mm}; \quad L_2 = 5000 \text{ mm}$$

$$F_{z \text{ dyn}} = m \times g = 294 \text{ N}$$

$$M_{y \text{ dyn}} = m \times a \times 70 \text{ mm} = 5.25 \text{ Nm}$$

2. Determine the allowable forces and moments

	LF 6 S LF 6 C	LF 12 S LF 12 C	LF 20 S LF 20 C
$F_{x \text{ dyn zul}} \text{ [N]}$			
$F_{y \text{ dyn zul}} \text{ [N]}$	1400	3500	12500
$F_{z \text{ dyn zul}} \text{ [N]}$	850	2000	6000
$M_{x \text{ dyn zul}} \text{ [Nm]}$	0.4 x B	1 x B	3 x B
$M_{y \text{ dyn zul}} \text{ [Nm]}$	0.4 x A	1.7 x A	6.2 x A
$M_{z \text{ dyn zul}} \text{ [Nm]}$	0.7 x A	1 x A	3 x A



LF 6 S, LF 6 C:

$$F_{z \text{ dyn zul}} = 850 \text{ N}$$

$$M_{y \text{ dyn zul}} = 0.4 \times A = 0.4 \times 75 \text{ mm} = 30 \text{ Nm}$$

3. Select the appropriate size

$$F_{x, y, z \text{ dyn}} < F_{x, y, z \text{ dyn zul}} !$$

$$M_{x, y, z \text{ dyn}} < M_{x, y, z \text{ dyn zul}} !$$

In case of superimposed forces and moments, verify calculations with MGEsoft!

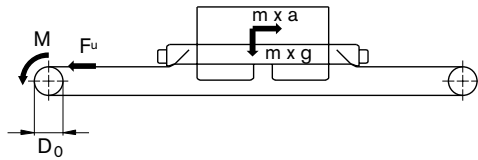
$$F_{z \text{ dyn}} = 294 \text{ N} < F_{z \text{ dyn zul}} = 850 \text{ N} !$$

$$M_{y \text{ dyn}} = 5.25 \text{ Nm} < M_{y \text{ dyn zul}} = 30 \text{ Nm} !$$

Linear Guides

Drive Dimensioning

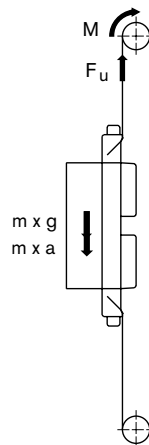
1. Peripheral force F_u



$$F_u = m \times a + F_o + \mu \times m \times g \leq F_{u \text{ zul}} !$$

$$F_u = m \times a + m \times g + F_o + \mu \times m \times g$$

$$F_u \leq F_{u \text{ zul}} !$$



LF 6 C:

$$m = 30 \text{ kg}; \quad a = 2.5 \text{ m/s}^2$$

$$F_u = 75 \text{ N} + 10 \text{ N} + 0.025 \times 294 \text{ N}$$

$$F_u = 92.35 \text{ N} < F_{u \text{ zul}} = 600 \text{ N} !$$

Section 14: Dynamic Linear Elements

2. Required drive moment M

$$M = \frac{1}{2} \times D_0 \times F_u \leq M_{zul}$$

	v [m/s]	F _{uzul} [N]	M _{zul} [Nm]	F ₀ [N]	μ	D ₀ [mm]	D ₀ π [mm]
LF 6 S	2.0	500	9.5	10	0.025	38.21	120.00
LF 6 C	5.0	400	7.6	10	0.025	38.21	120.00
LF 6 C	5.0	600	15	10	0.025	50.94	140.00
LF 12 S	5.0	820*	30*	30	0.020	73.20	230.00
LF 12 C	5.0	820*	30*	30	0.020	73.20	230.00
LF 20 S	5.0	2000*	100*	35	0.015	101.86	320.00
LF 20 C	5.0	2000*	100*	35	0.015	101.86	320.00

F₀ = Frictional force on return units μ = Coefficient of friction

Example:

$$M = \frac{1}{2} \times 50.94 \text{ mm} \times 92.35 \text{ N} = 2.35 \text{ Nm}$$

$$M = 2.35 \text{ Nm} \leq M_{zul} = 15 \text{ Nm} !$$

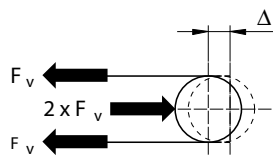
Linear Guides

Verification of Selected Size

1. Initial tension F_v of toothed belt

$$0.5 \times F_u \leq F_v \leq F_u$$

Recommendation: F_v = 0.5 × F_u



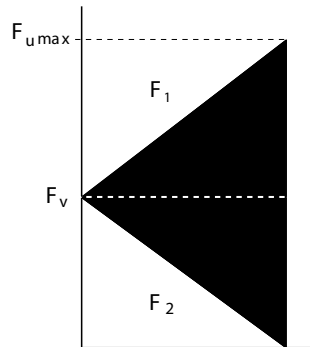
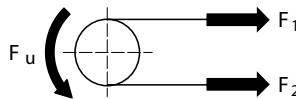
$$F_u = 92.35 \text{ N}$$

$$F_v \approx 50 \text{ N}$$

2. Maximum toothed belt force F_{1 max}

$$F_{1 \text{ max}} = F_v + 0.5 \times F_u \leq F_{1 \text{ zul}}$$

$$F_{2 \text{ min}} = F_v - 0.5 \times F_u > 0 !$$



$$F_{1 \text{ max}} = 50 \text{ N} + 0.5 \times 92.35 \text{ N}$$

$$F_{1 \text{ max}} = 96.17 \text{ N} < F_{1 \text{ zul}} = 900 \text{ N} !$$

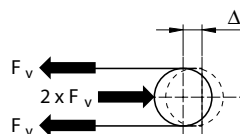
$$F_{2 \text{ min}} = 50 \text{ N} - 0.5 \times 92.35 \text{ N}$$

$$F_{2 \text{ min}} = 3.82 \text{ N} > 0 !$$

3. Required initial-tension length Δl

$$\Delta l = 0.5 \times F_v \times L / C_{\text{spez}} \leq \Delta l_{\text{max}} !$$

L = Toothed belt length



	F _{1 zul} [N]	C _{spez} [N]	Δl _{max} [mm]	L [mm]
LF 6 S	750	315,000	11	2 × L ₂ - L ₁ + 360
LF 6 C	900	420,000	13	2 × L ₂ - L ₁ + 400
LF 12 S	1230	1,250,000	16	2 × L ₂ - L ₁ + 570
LF 12 C	1230	1,250,000	16	2 × L ₂ - L ₁ + 570
LF 20 S	3000	1,870,000	23	2 × L ₂ - L ₁ + 720
LF 20 C	3000	1,870,000	23	2 × L ₂ - L ₁ + 720

LF6C

$$L = 2 \times L_2 - L_1 + 400 \text{ mm}$$

$$L = 10,250 \text{ mm}$$

$$\Delta l = 0.5 \times 50 \text{ N} \times 10,250 \text{ mm} / 420,000 \text{ N}$$

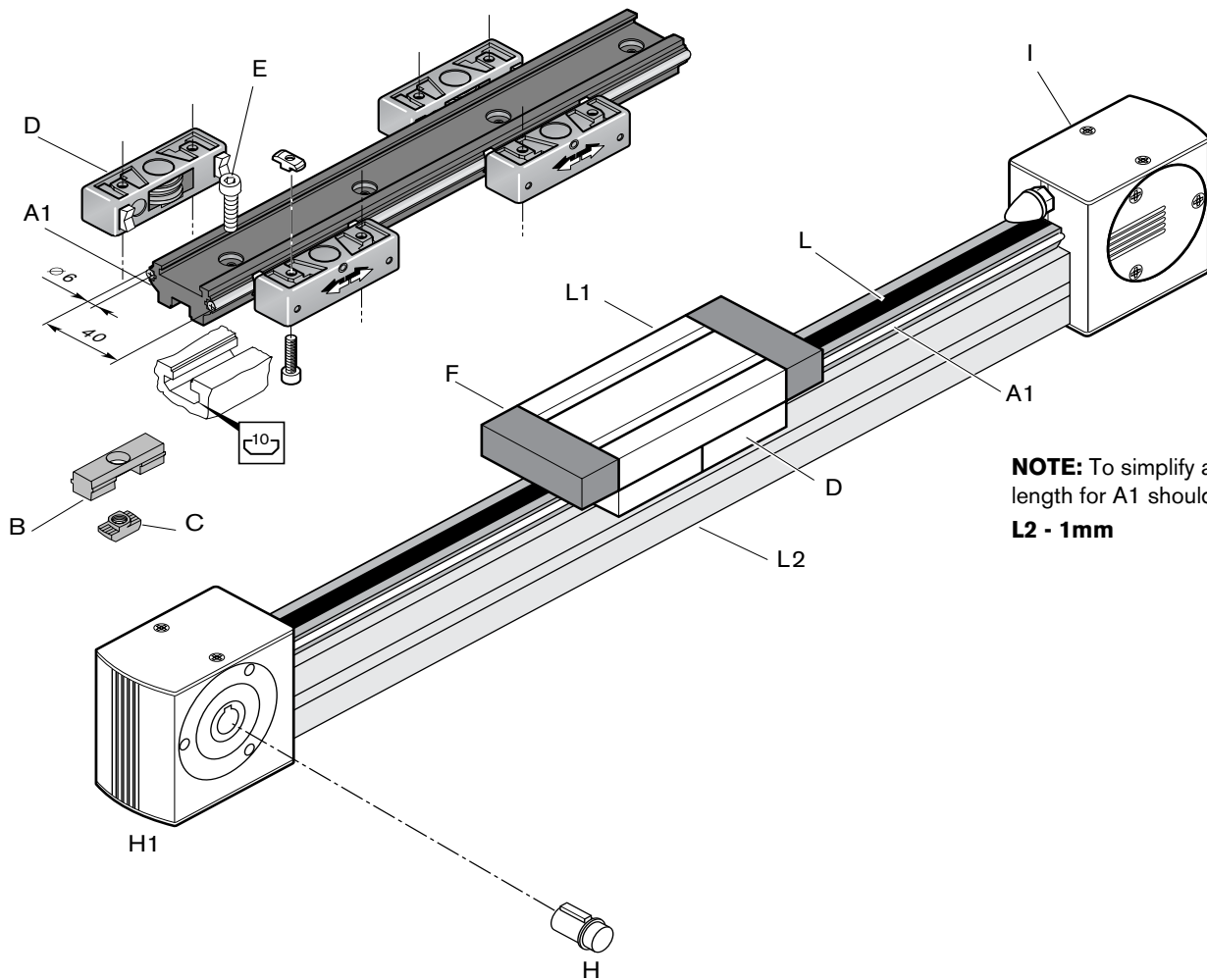
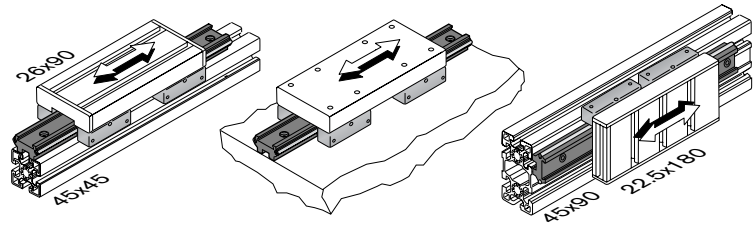
$$\Delta l = 0.61 \text{ mm} < \Delta l_{\text{max}} = 13 \text{ mm} !$$

Section 14: Dynamic Linear Elements

LF6 Linear Guides

LF6S Linear Guide ($F_{MAX} = 1,400\text{ N}$)

The LF6S linear guide provides a high degree of accuracy and a selectable trolley length. The guide profile can be mounted to a section of strut profile or to any flat metal surface. The track width of the trolley is fixed by the guide profile.

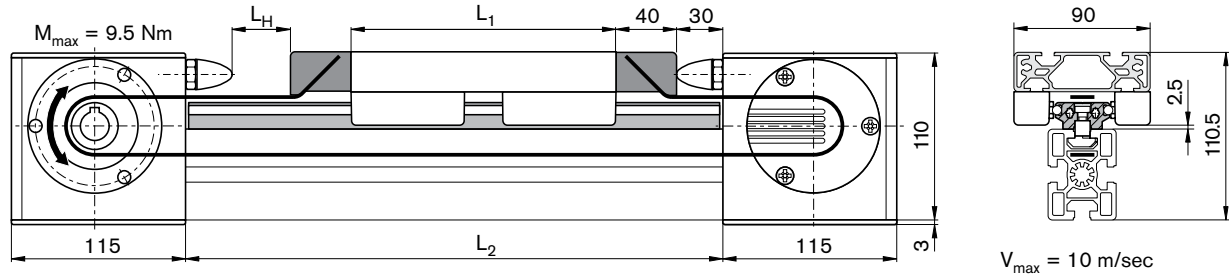


NOTE: To simplify assembly, the length for A1 should be equal to: **L2 - 1mm**

Section 14: Dynamic Linear Elements

LF6S Linear Guide

Description	Formulas to calculate lengths	Ref.
Support profile	$L2 = L1 + (80) + (60) + LH$	L2
Carriage profile	L1 = Minimum length, 150mm	L1
Timing belt	$L = 2 \times L2 - L1 + 360$	L



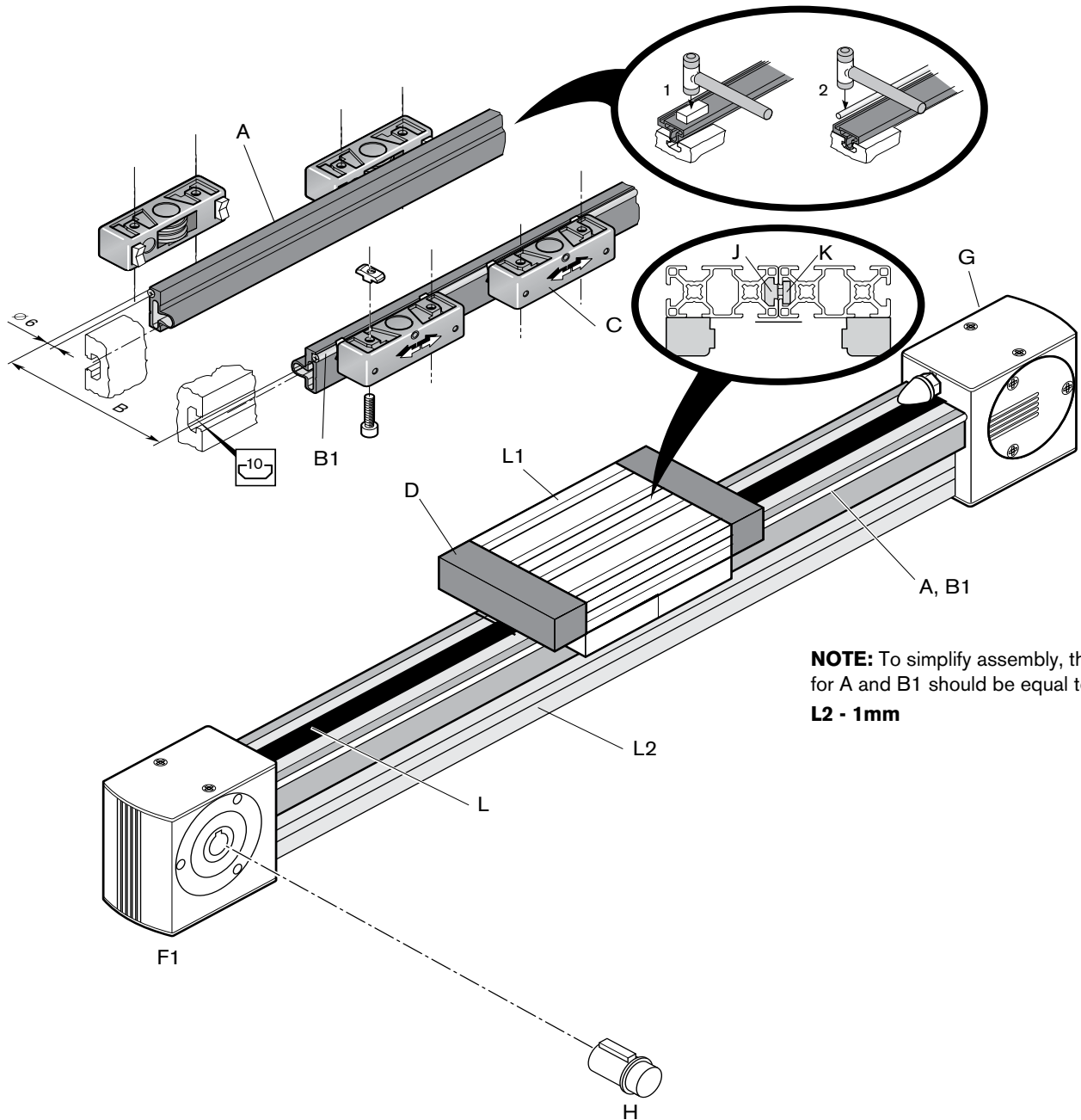
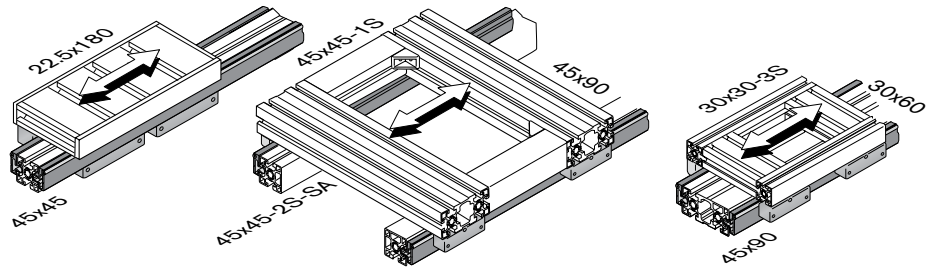
Ref.	Description	Order Quantity	Technical Specifications	Part Number
A1	Corrosion-resistant Guide profile, length = 3000mm	as required	14-8	3 842 539 413
	Corrosion-resistant Guide profile, specify length $\geq 150\text{mm} \leq 3000\text{mm}$	1	14-8	3 842 993 966/ __mm
B	Alignment block (use one per every 100mm)	as required	14-8	3 842 146 877
C	T-nut (use one per every 100mm)	as required	Section 4	3 842 530 285
D	Bearings, lot size = 2 (see helpful hint on page 14-9)	4	14-9	3 842 535 662
E	DIN 7984 M6x20 SHCS (use one per every 100mm)	as required	14-8	2 910 131 201
F	Belt clamps, lot size = 2 (includes fastening kit)	2	14-10	3 842 535 682
H1	Drive sprocket, flush mount	1	14-11	3 842 526 410
H	Drive shaft w/key, length = 50.5mm	1	14-11	3 842 526 893
I	Return sprocket	1	14-10	3 842 526 411
J	Caps with fastening set, lot size = 2 (if a toothed belt is not used to drive the trolley, substitute this end cap for belt clamp F)	2	14-10	3 842 535 645
L	Timing belt, length = 50,000mm	1	14-11	3 842 513 646
	Timing belt, specify length $\geq 300\text{mm} \leq 50,000\text{mm}$, in 5mm increments	1	14-11	3 842 994 659/ __mm
L1	Carriage profile 26x90mm, specify length __mm	1	14-10	3 842 993 061/ __mm
	Carriage profile 26x90mm, length = 3000mm	as required	14-10	3 842 526 495
L2	Support profile 45x60H, D17VS/D17VS, specify length __mm	1	Section 2	3 842 990 670/ __mm

Section 14: Dynamic Linear Elements

LF6 Linear Guides

LF6C Linear Guide ($F_{YMAX} = 1,400\text{ N}$)

The LF6C linear guide provides a high degree of accuracy and a selectable trolley length.

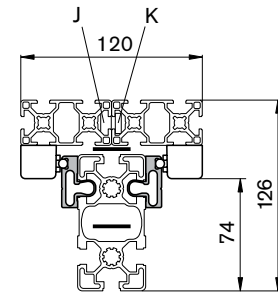
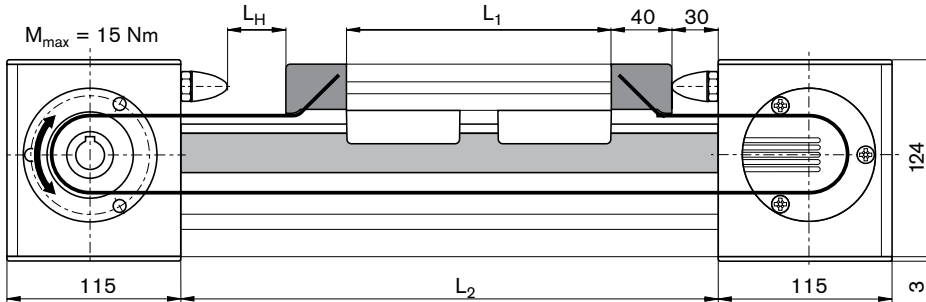


NOTE: To simplify assembly, the length for A and B1 should be equal to:
L2 - 1mm

Section 14: Dynamic Linear Elements

LF6C Linear Guide

Description	Formulas to calculate lengths	Ref.
Support profile	$L2 = L1 + (80) + (60) + LH$	L2
Carriage profile	L1 = Minimum length, 150mm	L1
Timing belt	$L = 2 \times L2 - L1 + 400$	L



$V_{max} = 10 \text{ m/sec}$

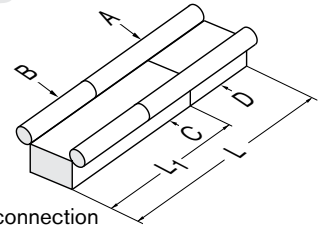
Ref.	Description	Order Quantity	Technical Specifications	Part Number
A	Clamp guide profile, length = 3000mm, pkg. of 20		14-9	3 842 518 896
	Clamp guide profile, length = 3000mm	as required	14-9	3 842 518 893
	Clamp guide profile, specify length $\geq 150\text{mm} \leq 3000\text{mm}$		14-9	3 842 992 925/ __mm
B1	Corrosion-resistant Guide rail, length = 3000mm	as required	14-9	3 842 539 414
	Corrosion-resistant Guide rail, specify length $\geq 150\text{mm} \leq 3000\text{mm}$	1	14-9	3 842 993 967/ __mm
C	Bearings, lot size = 2 (see helpful hint on page 14-9)	4	14-9	3 842 535 662
D	Belt clamps, lot size = 2 (includes fastening kit)	2	14-10	3 842 535 681
F1	Drive sprocket, flush mount	1	14-11	3 842 526 416
H	Drive shaft w/key, length = 50.5mm	as required	14-11	3 842 526 893
G	Return sprocket	1	14-10	3 842 526 417
J	T-block, M8, 8mm	as required	Section 4	3 842 514 931
K	ISO 7380 M8x12	as required		2 910 141 234
L	Timing belt, length = 50,000mm	1	14-11	3 842 518 856
	Timing belt, specify length $\geq 300\text{mm} \leq 50,000\text{mm}$ in 5mm increments	1	14-11	3 842 994 711/ __mm
L1	Carriage profile 30x150mm, specify length $\geq 150\text{mm} \leq 3000\text{mm}$	1	14-10	3 842 993 952/ __mm
	Caps, lot size = 2 (if a toothed belt is not used to drive the trolley, substitute this end cap for the belt clamp D)	2		3 842 539 120
L2	Support profile 45x90, D17VS/D17VS, specify length __mm	1	Section 2	3 842 992 435/ __mm
	Support profile 45x90H, D17VS/D17VS, specify length __mm	1	Section 2	3 842 990 309/ __mm

Section 14: Dynamic Linear Elements

LF6 Linear Guides

Assembly Note

To create a linear guide element larger than purchased lengths, offset the splits in the guide profile and guiderails. This will create a much stronger and better aligned connection. Make sure butting edges are cut square and deburred.

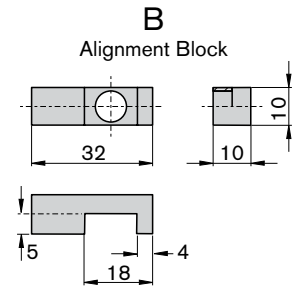
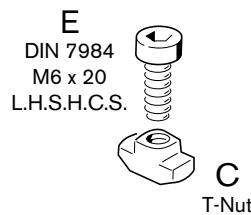
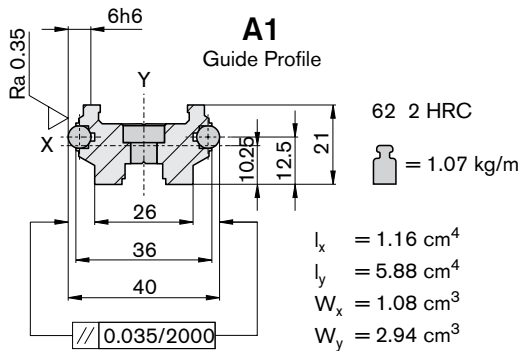


$A = L_1 - (L \times .10)$ (Guide rail) $L =$ Total length
 $B = L - A$ (Overlap guide rail) $L_1 =$ Location of profile connection as chosen by customer
 $C = L_1$ (Guide profile)
 $D = L - L_1$ (Guide profile)

LF6S Guide Profile

For mounting the guide profile, we recommend DIN 7984 M6 x 20-8.8 socket head cap screws. Mounting holes are spaced every 100mm in the guide profile.

Material A: AlMgSi 0.5 F25/hardened, polished steel
Material B: Black PA 6

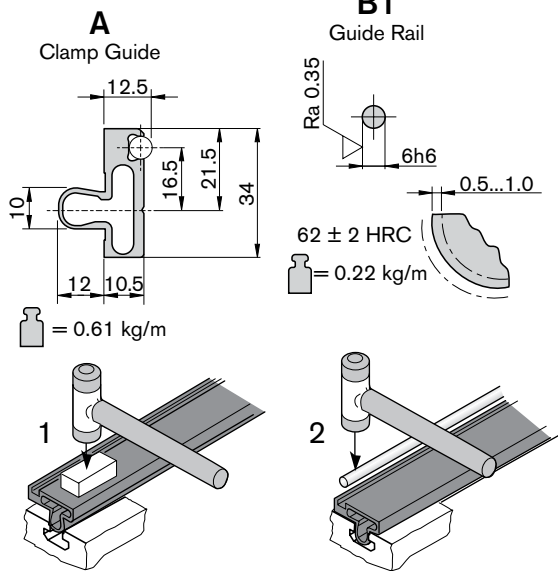


	Description	Lot Size	Part Number
Standard Guide Profiles:			
A	L = 3000mm	1	3 842 518 886
	L = ... mm, Specify length 150mm 3000mm	1	3 842 990 085/...mm
B	Alignment block		3 842 146 877
C	T-Nut, M6 x 10mm	1	3 842 530 285
E	DIN 7984, M6 x 20 S.H.C.S.	1	2 910 131 201

Section 14: Dynamic Linear Elements

LF6C Clamp Guide 

Material A: AlMgSi 0.5 F25, natural color anodized
Material B: Hardened, polished steel

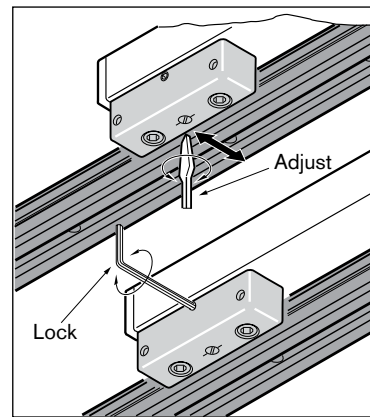
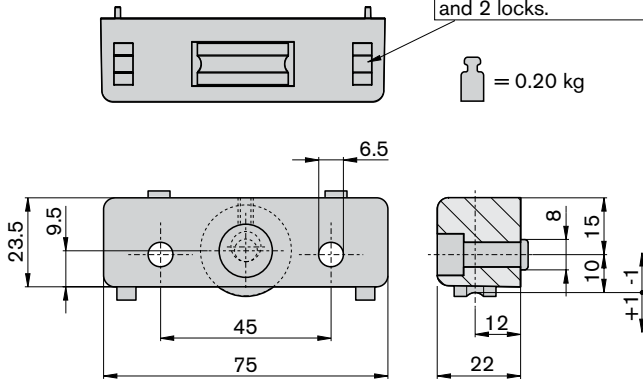


	Description	Lot Size	Part Number
A	Clamp guide L = 3000mm	1	3 842 518 893
	Clamp guide L = ... mm	1	3 842 992 925/...mm
	Specify length 150mm 3000mm		
Standard Guide Rail:			
B	L = 3000mm	1	3 842 518 878
	L = ... mm	1	3 842 994 822/...mm
	Specify length 150mm 3000mm		

Bearing for LF6S and LF6C

Eccentric bearings are used to eliminate play.
 Includes fastening kit.
Housing material: Die-cast zinc
Roller material: Hardened, polished steel
Load capacity of roller: $C_{dyn} = 4100\text{ N}$, $C_{stat} = 2280\text{ N}$

Felt repair kit includes 2 felts, 2 springs, 2 lubricating nipples, and 2 locks.



Description	Lot Size	Part Number
Bearing	2	3 842 535 662
Felt repair kit	1	3 842 528 519

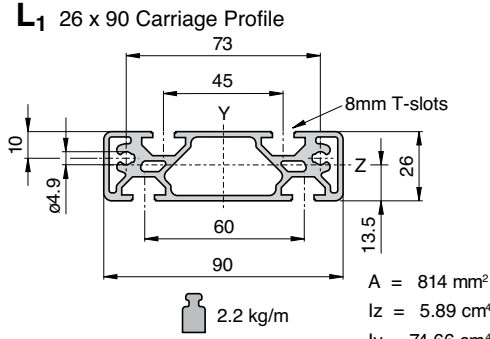
NOTE: When mounting LF6 bearings crosswise on the profiles shown below, break off the alignment tabs and place the appropriate size shim in the profile groove as illustrated.



Section 14: Dynamic Linear Elements

LF6 Linear Guides

LF6S Carriage Profile 26x90 and Cap



L₁ 26 x 90 Carriage Profile

2.2 kg/m

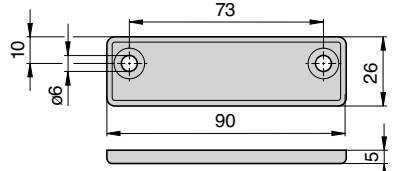
$A = 814 \text{ mm}^2$
 $l_z = 5.89 \text{ cm}^4$
 $l_y = 74.66 \text{ cm}^4$

The carriage profile is especially suited for use with linear guide LF6. The cap is used when the carriage is not driven with a toothed belt.

Carriage profile (L₁) material: AlMgSi 0.5 F25, natural-color, anodized
Cap (J) material: PA 6, black

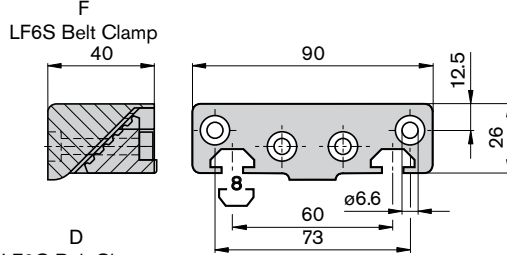
	Description	Lot Size	Part Number
L ₁	26 x 90 carriage profile, 3000mm	1	3 842 526 495
	26 x 90 carriage profile, 3000mm Specify length 150mm 3000mm	1	3 842 993 061/...mm
J	Cap kit for non-driven carriage	2	3 842 535 645

J Cap Kit for Non-Driven Carriage



Cap Kit includes fastening set

Belt Clamps for LF6S and LF6C



F LF6S Belt Clamp

40

90

12.5

26

8

60

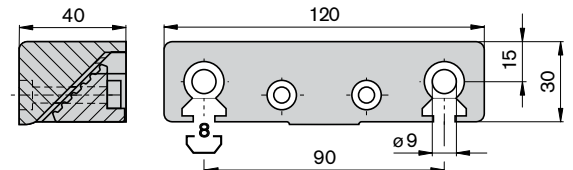
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6.6

$\rho = 0.2 \text{ kg}$

Material: AlMgSi 0.5 F22, painted black

Includes mounting hardware.
The LF6C requires 2 M8 tapped holes in mounting profile.



D LF6C Belt Clamp

40

120

15

30

8

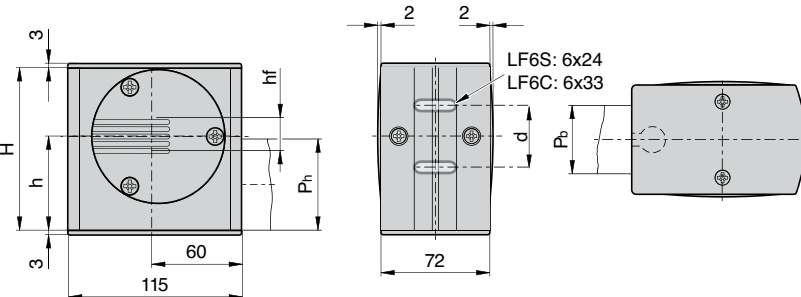
90

9

$\rho = 0.35 \text{ kg}$

Description	Lot Size	Ref.	Part Number
LF6S belt clamp	2	F	3 842 535 682
LF6C belt clamp	2	D	3 842 535 681

Return Sprockets for LF6S and LF6C




LF6S: 6x24
LF6C: 6x33

Material: AlMgSi 0.5 F22

Includes mounting hardware.

Material: AlMgSi 0.5 F22

Includes mounting hardware.

Description	Ref.	Lot Size	H (mm)	h (mm)	Pb x Ph (mm)	d (mm)		Part Number
LF6S return sprocket	I	1	107	62	45x60	38	1.6 kg	3 842 526 411
LF6C return sprocket	G	1	121	68	45x90	51	1.9 kg	3 842 526 417

Section 14: Dynamic Linear Elements

Drive Sprockets for LF6S and LF6C

H1 Pulley Diameter = 36.98mm
Carriage Travel (1 revolution) = 116.17mm

F1 Pulley Diameter = 49.71mm
Carriage Travel (1 revolution) = 156.17mm

Description	Ref.	Lot Size	H (mm)	h (mm)	Pb x Ph (mm)	d (mm)		Part Number
LF6S drive sprocket	H1	1	107	62	45x60	38	1.8 kg	3 842 526 410
LF6C drive sprocket	F1	1	121	68	45x90	51	2.1 kg	3 842 526 416
Drive shaft w/key	H	1	-	-	-	-	0.11 kg	3 842 526 893

Timing Belts for LF6S and LF6C

Description	Length	Lot Size	Part Number
LF6S	50,000mm	1	3 842 513 646
	L = ...mm	1	3 842 994 659/...mm*
LF6C	50,000mm	1	3 842 518 856
	L = ...mm	1	3 842 994 711/...mm*

LF6S
Timing Belt

$F_{MAX} = 1260 \text{ N}$

= 51 g/m

LF6C
Timing Belt

$F_{MAX} = 1680 \text{ N}$

= 80 g/m

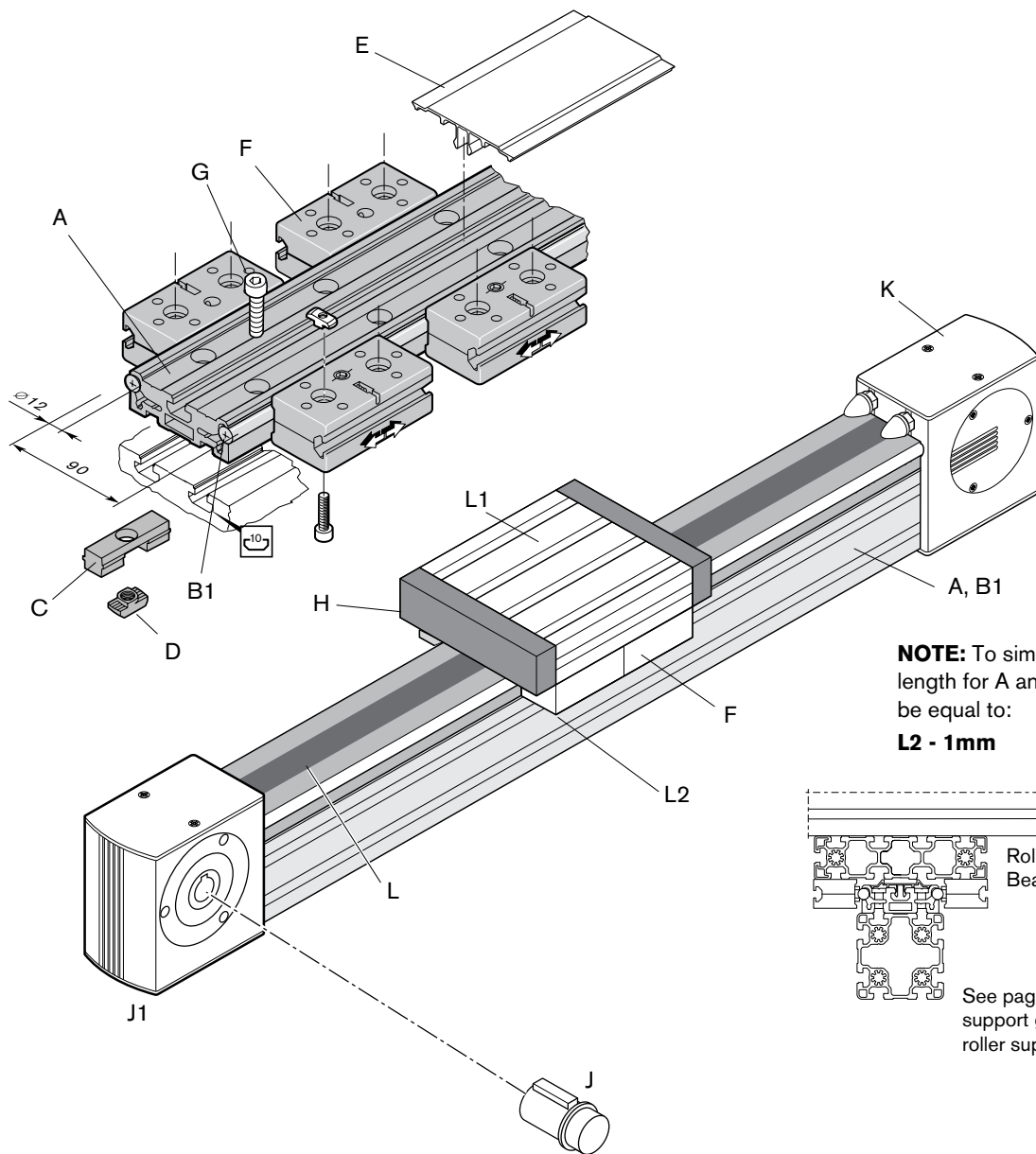
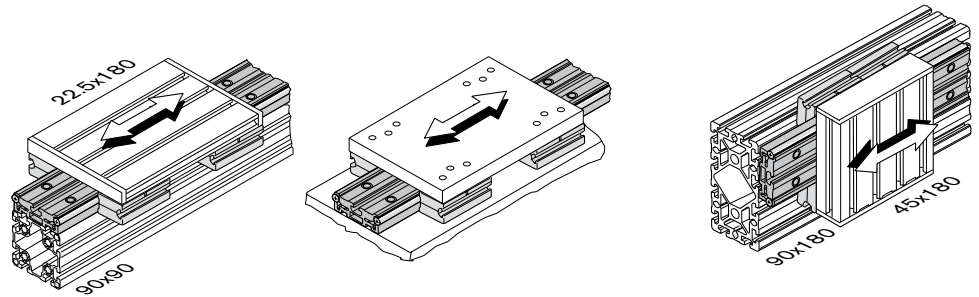
Toothed belt LF6S: AT5
Toothed belt LF6C: AT5
Material: PU with embedded wire mesh.
*** Note:**
Specify length $\geq 300\text{mm} \leq 50,000\text{mm}$ in 5mm increments.

Section 14: Dynamic Linear Elements

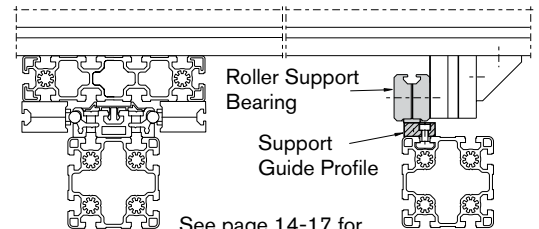
LF12 Linear Guides

LF12S Linear Guide ($F_{YMAX} = 3,500\text{ N}$)

The LF12S linear guide provides a high degree of accuracy and a selectable trolley length. The guide profile can be mounted to a section of strut profile or to any flat metal surface. The track width of the trolley is fixed by the guide profile.



NOTE: To simplify assembly, the length for A and B1 should be equal to:
L2 - 1mm

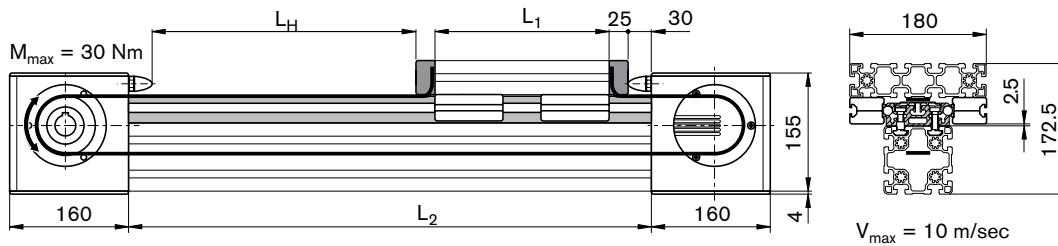


See page 14-17 for support guide profile and roller support bearing.

Section 14: Dynamic Linear Elements

LF12S Linear Guide

Description	Formulas to calculate lengths	Ref.
Support profile	$L2 = L1 + (50) + (60) + LH$	L2
Carriage profile	L1 = Minimum length, 180mm	L1
Timing belt	$L = 2 \times L2 - L1 + 630$	L



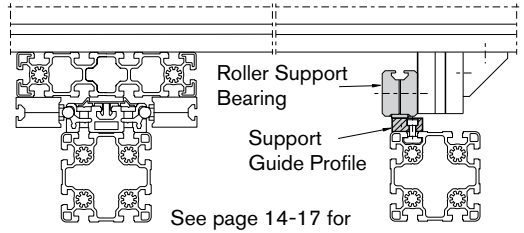
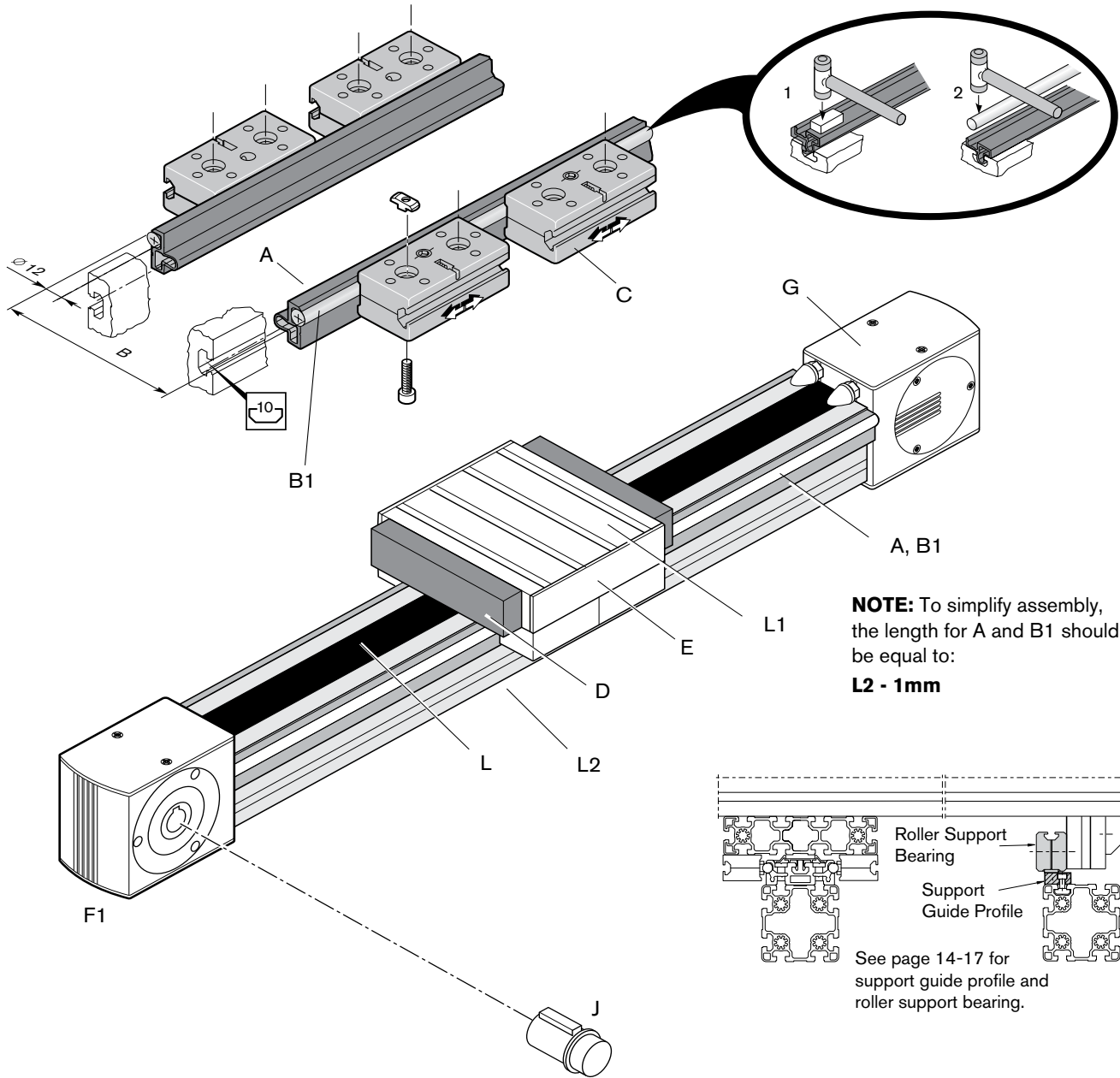
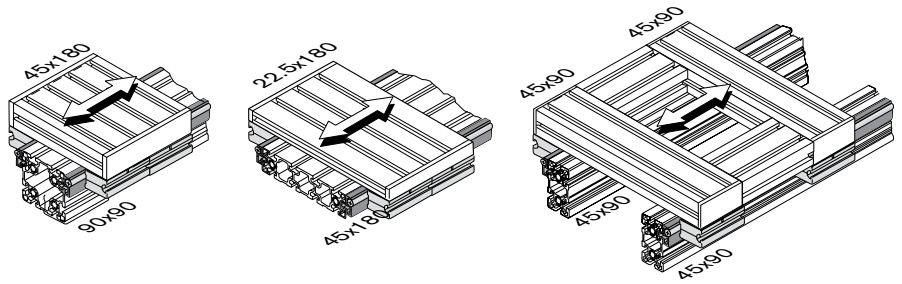
Ref.	Description	Order Quantity	Technical Specifications	Part Number
A	Guide profile, length = 5600mm, pkg. of 5	as required	14-16	3 842 511 841
	Guide profile, length = 5600mm	as required	14-16	3 842 511 903
	Guide profile, specify length $\geq 150\text{mm} \leq 5600\text{mm}$	1	14-16	3 842 992 438/ __mm
B1	Corrosion-resistant Guide rail, length = 2900mm	as required	14-16	3 842 539 415
	Corrosion-resistant Guide rail, specify length $\geq 150\text{mm} \leq 2900\text{mm}$	1	14-16	3 842 993 968/ __mm
C	Alignment block (use two per every 100mm)	as required	14-16	3 842 146 877
D	T-nut (use two per every 100mm)	as required	Section 4	3 842 530 287
E	Belt guide, length = 5600mm	as required	14-16	3 842 526 500
	Belt guide, specify length $150\text{mm} \leq 5600\text{mm}$	1	14-16	3 842 993 062/ __mm
F	Bearing, lot size = 2 (includes fastening set)	4	14-17	3 842 535 664
G	DIN 7984 M8x30 SHCS (use two per every 100mm)	as required	14-16	2 910 131 246
H	Belt clamps, lot size = 2 (includes fastening kit)	2	14-18	3 842 535 680
J1	Drive sprocket, flush mount	1	14-19	3 842 526 412
J	Drive shaft w/ key, length = 68.5mm	1	14-19	3 842 526 894
K	Return sprocket (includes fastening kit)	1	14-18	3 842 526 413
L	Timing belt, length = 50,000mm	1	14-19	3 842 526 422
	Timing belt, specify length $\geq 300\text{mm} \leq 50,000\text{mm}$, in 10mm increments	1	14-19	3 842 994 821/ __mm
L1	Carriage profile 45x180H, specify length ...mm (min = 180)	1	Section 2	3 842 990 339/ __mm
L2	Support profile 90x90, specify length ...mm	1	Section 2	3 842 992 418/ __mm

Section 14: Dynamic Linear Elements

LF12 Linear Guides

LF12C Linear Guide ($F_{YMAX} = 3,500\text{ N}$)

The LF12C linear guide provides a high degree of accuracy and a selectable trolley length.

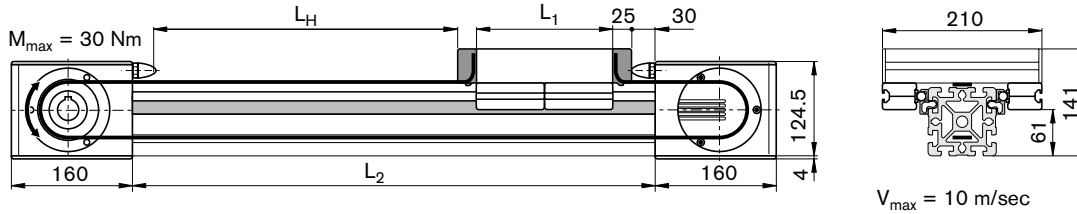


See page 14-17 for support guide profile and roller support bearing.

Section 14: Dynamic Linear Elements

LF12C Linear Guide

Description	Formulas to calculate lengths	Ref.
Support profile	$L_2 = L_1 + (50) + (60) + L_H$	L2
Carriage profile	$L_1 = \text{Minimum length, 180mm}$	L1
Timing belt	$L = 2 \times L_2 - L_1 + 630$	L



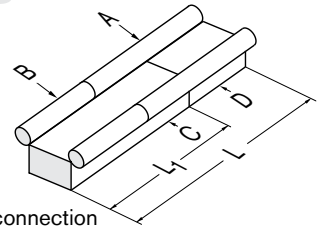
Ref.	Description	Order Quantity	Technical Specifications	Part Number
A	Clamp guide profile, length = 3000mm, pkg. of 20		14-16	3 842 518 897
	Clamp guide profile, length = 3000mm	as required	14-16	3 842 518 894
	Clamp guide profile, specify length $\geq 150\text{mm} \leq 3000\text{mm}$		14-16	3 842 992 440/ __mm
B1	Corrosion-resistant Guide rail, length = 2900mm	as required	14-16	3 842 539 415
	Corrosion-resistant Guide rail, specify length $\geq 150\text{mm} \leq 2900\text{mm}$	1	14-16	3 842 993 968/ __mm
C	Bearings, lot size = 2 (includes fastening kit)	4	14-17	3 842 535 664
D	Belt clamps, lot size = 2 (includes fastening kit)	1	14-18	3 842 535 680
F1	Drive sprocket, flush mount	1	14-19	3 842 526 863
J	Drive shaft w/key, length = 68.5mm	as required	14-19	3 842 526 894
G	Return sprocket (includes fastening kit)	1	14-18	3 842 526 865
E	45x180 end cap, black (two required)	2	Section 9	3 842 503 845
L	Timing belt, length = 50,000mm	as required	14-19	3 842 526 422
	Timing belt, specify length $\geq 300\text{mm} \leq 50,000\text{mm}$, in 10mm increments	1	14-19	3 842 994 821/ __mm
L1	Carriage profile 45x180H, specify length ...mm (min. = 180)	1	Section 2	3 842 990 335/ __mm
L2	Support profile 90x90H, D17/D17, specify length ...mm	1	Section 2	3 842 990 093/ __mm

Section 14: Dynamic Linear Elements

LF12 Linear Guides

Assembly Note

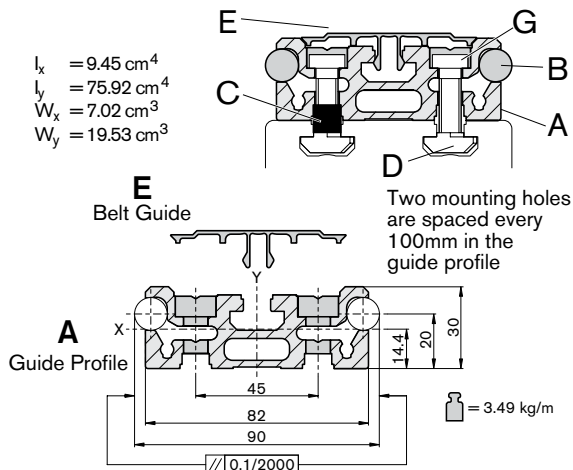
To create a linear guide element larger than purchased lengths, offset the splits in the guide profile and guiderails. This will create a much stronger and better aligned connection. Make sure butting edges are cut square and deburred.



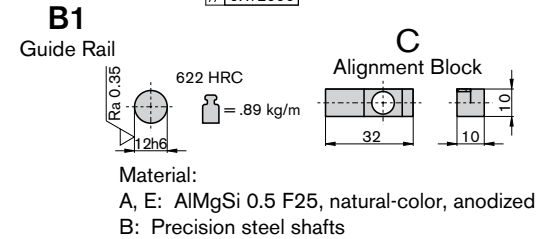
A = $L_1 - (L \times .10)$ (Guide rail) L = Total length
 B = L - A (Overlap guide rail) L₁ = Location of profile connection as chosen by customer
 C = L₁ (Guide profile)
 D = L - L₁ (Guide profile)

LF12S Guide Profile

$I_x = 9.45 \text{ cm}^4$
 $I_y = 75.92 \text{ cm}^4$
 $W_x = 7.02 \text{ cm}^3$
 $W_y = 19.53 \text{ cm}^3$



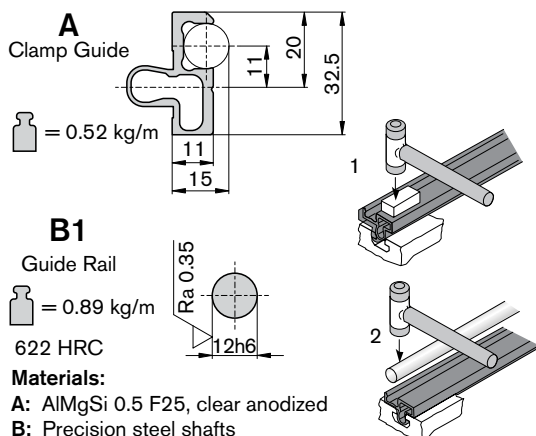
Two mounting holes are spaced every 100mm in the guide profile



Material:
 A, E: AlMgSi 0.5 F25, natural-color, anodized
 B: Precision steel shafts

Ref	Description	Lot Size	Part Number
A	Guide profile L = 5600mm	1	3 842 511 903
	Guide profile L = ... mm Specify length 150mm 5600mm	1	3 842 992 438/...mm
B 1	Standard Guide Rails: L = 3000mm	1	3 842 518 879
	L = ... mm Specify length 150mm 3000mm	1	3 842 994 648/...mm
C	Alignment block	1	3 842 146 877
D	T-Nut	1	3 842 530 287
E	Belt guide L = 5600mm	1	3 842 526 500
	Belt guide L = ... mm	1	3 842 993 062/...mm
G	M8 x 30 DIN 7984	1	2 910 131 246

LF12C Clamp Profile



Material:
 A: AlMgSi 0.5 F25, clear anodized
 B: Precision steel shafts

Ref	Description	Qty	Part Number
A	Clamp guide L = 3000mm	1	3 842 518 894
	Clamp guide L = ... mm Specify length 150mm 3000mm	1	3 842 992 440/...mm
B 1	Standard Guide Rails: L = 3000mm	1	3 842 518 879
	L = ... mm Specify length 150mm 3000mm	1	3 842 994 648/...mm

Section 14: Dynamic Linear Elements

Bearing for LF12S and LF12C

Housing: Die-cast aluminum
Load capacity of roller:
 $C_{stat} = 5000 \text{ N}$, $C_{dyn} = 8300 \text{ N}$

Felt repair kit includes 2 felts, 2 springs, 2 lubricating nipples, and 2 locks.

$\text{Weight} = 0.35 \text{ kg}$

Eccentric Adjustment

Description	Lot Size	Part Number
Bearing	2	3 842 535 664
Felt repair kit	1	3 842 528 520

Includes fastening set

Support Guide Profile for LF12S and LF12C

Support guide profile is mounted using DIN 912 M6 x 16-8.8 screws. Drilled mounting holes provided every 100mm. The supporting bearing for extensions absorb non-central forces to 1750 N.

Materials:
Guide profile: Hardened, polished steel
Support bearing housing: Die-cast aluminum
Roller: Hardened, polished steel

Load capacity of rollers:
 $C_{dyn} = 8600 \text{ N}$, $C_{stat} = 5100 \text{ N}$

Support Guide Profile

$\text{Weight} = 3.0 \text{ kg/m}$
 633 HRC

Roller Support Bearing

Description	Lot Size	Part Number
Support guide profile, 2000mm	1	3 842 517 160
Support guide profile, square cut to length	1	3 842 994 702/... mm
Roller support bearing, pkg. of 2	1	3 842 535 666
ISO 912, M6 x 16 screw (1 reqd. per 100mm)	1	2 910 141 197
T-Nut, M6, 10mm (1 reqd. per 100mm)	1	3 842 530 285

Section 14: Dynamic Linear Elements

LF12 Linear Guides

Belt Clamps for LF12S and LF12C

Material: AlMgSi 0.5 F22, painted black
Includes fastening set.

Description	Lot Size	Part Number
LF12S Belt clamp	2	3 842 535 680
LF12C Belt clamp		

Return Sprockets for LF12S and LF12C

Material: AlMgSi 0.5 F22, natural color anodized
Includes fastening set.

Description	Ref.	Lot Size	H (mm)	h (mm)	Pb x Ph (mm)	Weight (kg)	Part Number
LF12S return sprocket	K	1	151.0	88.7	90x90	3.5 kg	3 842 526 413
LF12C return sprocket	G	1	120.5	58.3	90x90H	2.9 kg	3 842 526 865

Section 14: Dynamic Linear Elements

Drive Sprockets for LF12S and LF12C

Description	Ref.	Lot Size	H (mm)	h (mm)	Pb x Ph (mm)	Weight	Part Number
LF12S drive sprocket	J1	1	151.0	88.7	90x90	4.5 kg	3 842 526 412
LF12C drive sprocket	F1	1	120.5	58.3	90x90H	3.9 kg	3 842 526 863
Drive shaft w/key	F	1	-	-	-	0.33 kg	3 842 526 894

Material:
Toothed belt pulley (J, F): AT 10/oz = 32
Housing material: AlMgSi 0.5 F22, natural color anodized

Includes fastening set.

Timing Belts for LF12S and LF12C

14

LF12S/C
Timing Belt

Description	Length	Lot Size	Part Number
LF12S/C Timing belt	L = 50,000mm	1	3 842 526 422
	L = ...mm	1	3 842 994 821/...mm*

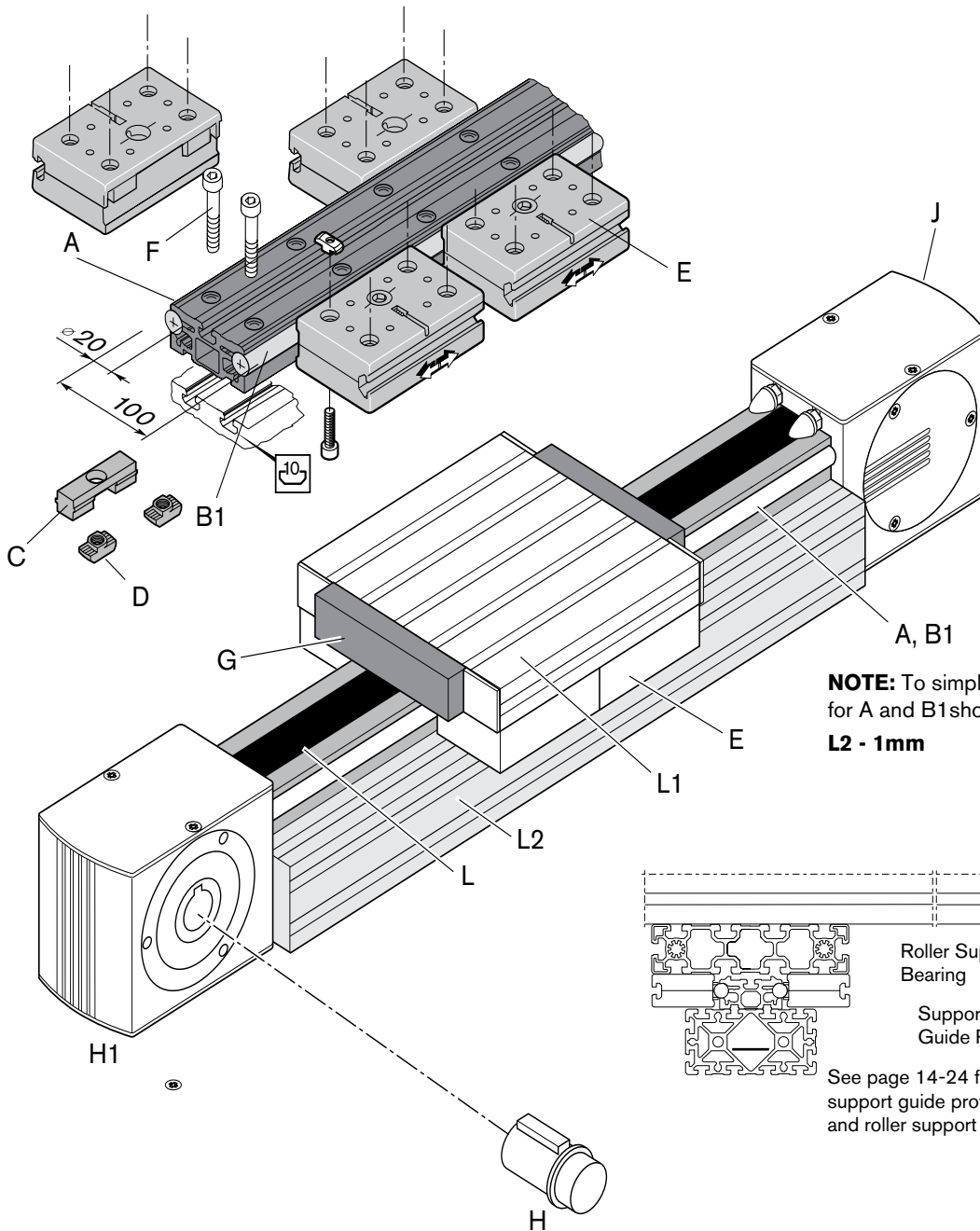
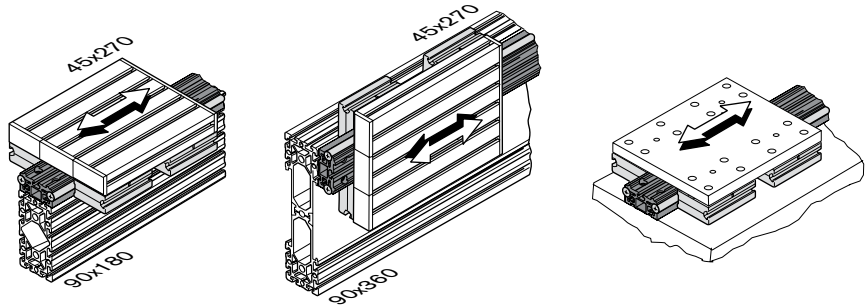
Timing belt: AT10
Material: PU with embedded wire mesh
*** Note:** Specify length 300mm 50,000mm in 10mm increments

Section 14: Dynamic Linear Elements

LF20 Linear Guides

LF12S Linear Guide (F_{YMAX} = 12,500 N)

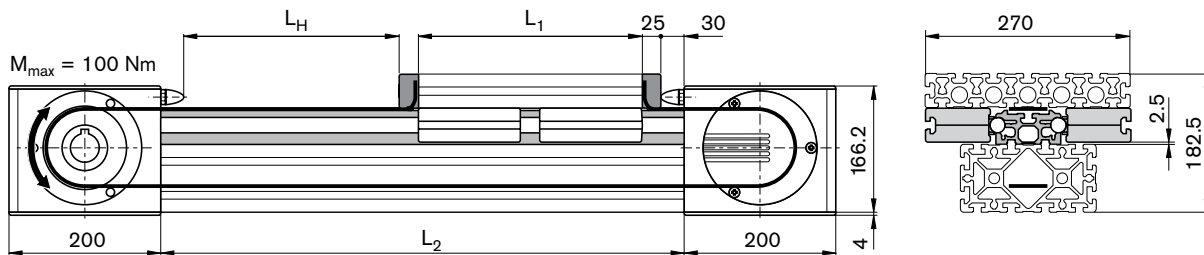
The LF20S linear guide provides a high degree of accuracy and a selectable trolley length. The guide profile can be mounted to a section of strut profile or to any flat metal surface. The track width of the trolley is fixed by the guide profile.



Section 14: Dynamic Linear Elements

LF20S Linear Guide

Description	Formulas to calculate lengths	Ref.
Support profile	$L2 = L1 + (50) + (60) + LH$	L2
Carriage profile	L1 = Minimum length, 270mm	L1
Timing belt	$L = 2 \times L2 - L1 + 780$	L



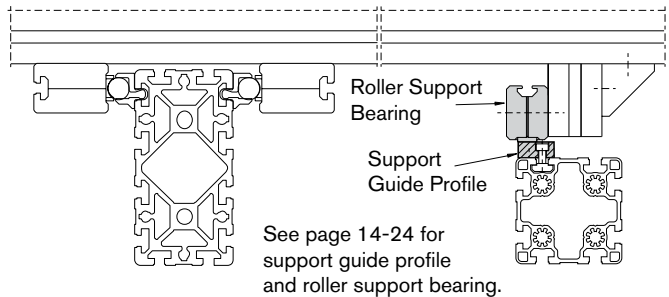
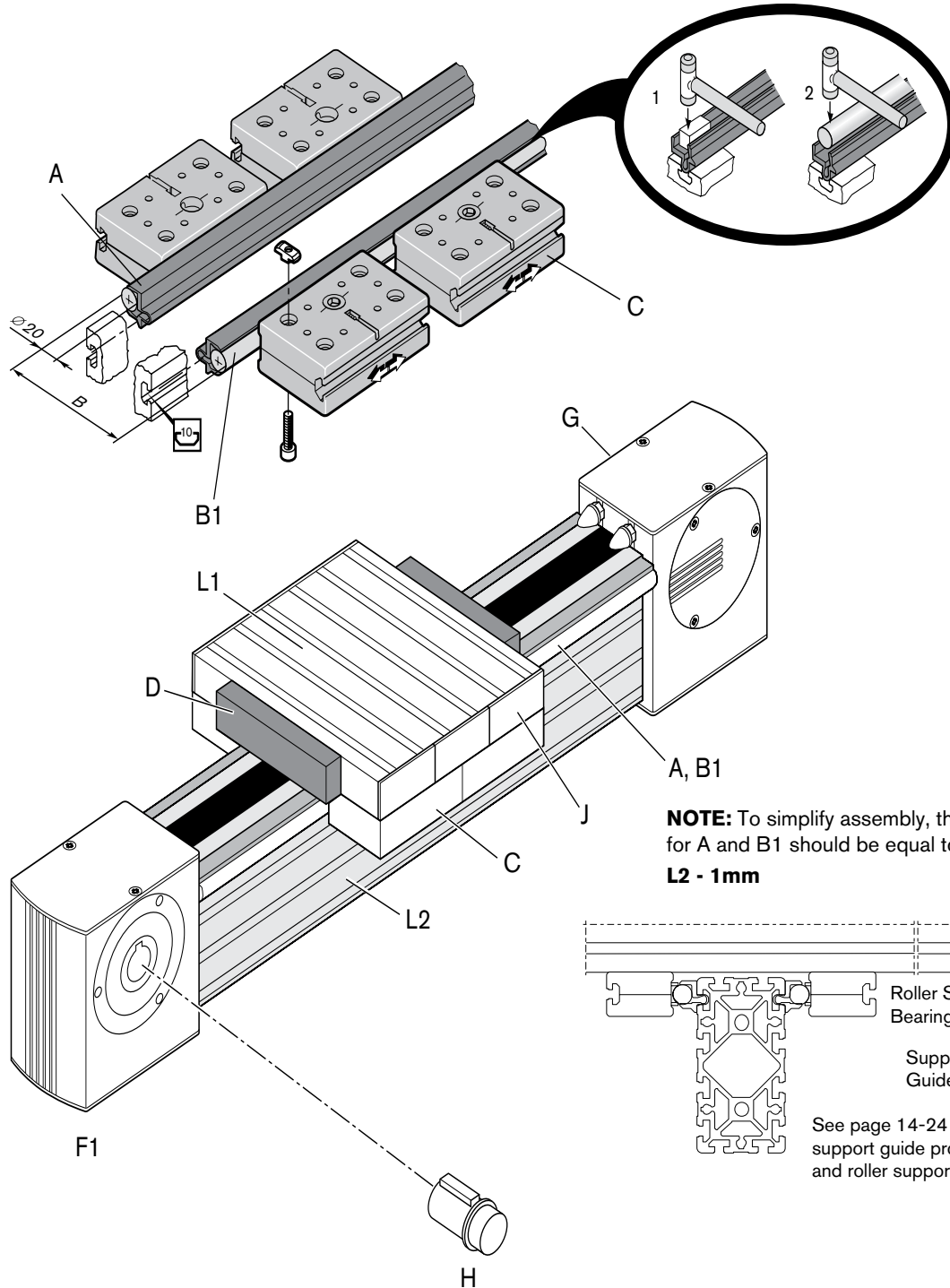
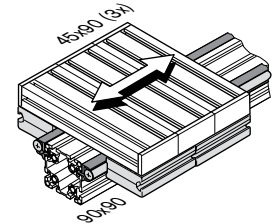
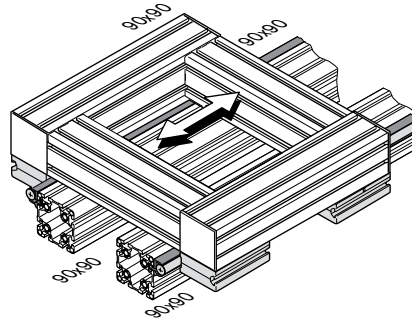
Ref.	Description	Order Quantity	Technical Specifications	Part Number
A	Guide profile, length = 5600mm, pkg. of 5	as required	14-25	3 842 526 878
	Guide profile, length = 5600mm	as required	14-25	3 842 526 931
	Guide profile, specify length $\geq 150\text{mm} \leq 5600\text{mm}$	1	14-25	3 842 993 080/ __mm
B1	Corrosion-resistant Guide rail, length = 2900mm	as required	14-25	3 842 539 416
	Corrosion-resistant Guide rail, specify length $\geq 150\text{mm} \leq 2900\text{mm}$	1	14-25	3 842 993 969/ __mm
C	Alignment block (use two per every 100mm)	as required	14-25	3 842 146 877
D	T-nut (use two per every 100mm)	as required	Section 4	3 842 530 287
E	Bearing, lot size = 2 (includes fastening kit)	4	14-26	3 842 535 663
F	DIN 7984 M8x45 SHCS (use two per every 100mm)	as required	14-25	2 910 131 252
G	Belt clamps, lot size = 2 (includes fastening kit)	2	14-26	3 842 535 680
H1	Drive sprocket, flush mount	1	14-27	3 842 526 414
H	Drive shaft w/key, length = 68.5mm	1	14-27	3 842 526 895
J	Return sprocket	1	14-26	3 842 526 415
L	Timing belt, length = 50,000mm	1	14-27	3 842 513 648
	Timing belt, specify length $\geq 300\text{mm} \leq 50,000\text{mm}$, in 10mm increments	1	14-27	3 842 994 662/ __mm
L1	Carriage profile 45x270H, specify length ...mm (min = 270)	1	Section 2	3 842 992 928/ __mm
L2	Support profile 90x180H, D17/D17, specify length __mm	1	Section 2	3 842 993 081/ __mm

Section 14: Dynamic Linear Elements

LF20 Linear Guides

LF12C Linear Guide ($F_{YMAX} = 12,500\text{ N}$)

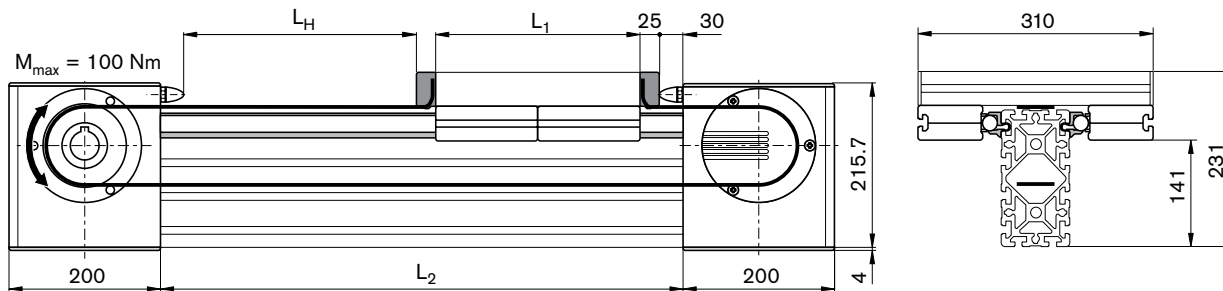
The LF20C linear guide provides a high degree of accuracy and a selectable trolley length.



Section 14: Dynamic Linear Elements

LF20C Linear Guide

Description	Formulas to calculate lengths	Ref.
Support profile	$L2 = L1 + (50) + (60) + LH$	L2
Carriage profile	L1 = Minimum length, 180mm	L1
Timing belt	$L = 2 \times L2 - L1 + 630$	L



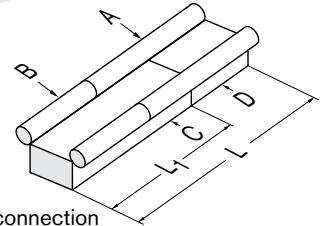
Ref.	Description	Order Quantity	Technical Specifications	Part Number
A	Clamp guide profile, length = 3000mm, pkg. of 20	as required	14-25	3 842 518 898
	Clamp guide profile, length = 3000mm	as required	14-25	3 842 518 895
	Clamp guide profile, specify length $\geq 150\text{mm} \leq 3000\text{mm}$	1	14-25	3 842 992 441/ __mm
B1	Corrosion-resistant Guide rail, length = 2900mm	as required	14-25	3 842 539 416
	Corrosion-resistant Guide rail, specify length $\geq 150\text{mm} \leq 2900\text{mm}$	2	14-25	3 842 993 969/ __mm
C	Bearings, lot size = 2 (includes fastening kit)	4	14-26	3 842 535 663
D	Belt clamps, lot size = 2 (includes fastening kit)	2	14-26	3 842 535 680
F1	Drive sprocket, flush mount	1	14-27	3 842 526 867
H	Drive shaft w/key, length = 68.5 mm	1	14-27	3 842 526 895
G	Return sprocket	1	14-26	3 842 526 869
J	45x90 end cap, black	6	Section 9	3 842 511 783
L	Timing belt, length = 50,000mm	1	14-27	3 842 513 648
	Timing belt, specify length $\geq 300\text{mm} \leq 50,000\text{mm}$, in 10mm increments	1	14-27	3 842 994 662/ __mm
L1	Carriage profile 45x270H, specify length ...mm (min = 270)	1	Section 2	3 842 992 928/ __mm
L2	Support profile 90x180H, D17/D17, specify length __mm	1	Section 2	3 842 992 898/ __mm

Section 14: Dynamic Linear Elements

LF20 Linear Guides

Assembly Note

To create a linear guide element larger than purchased lengths, offset the splits in the guide profile and guiderails. This will create a much stronger and better aligned connection. Make sure butting edges are cut square and deburred.



- A = $L_1 - (L \times .10)$ (Guide rail)
- B = $L - A$ (Overlap guide rail)
- C = L_1 (Guide profile)
- D = $L - L_1$ (Guide profile)
- L = Total length
- L_1 = Location of profile connection as chosen by customer

Support Guide Profile for LF20S and LF20C

The guide profile for support bearings is mounted using DIN 912 - M6 x 16 - 8.8 SHCS. Drilled holes are provided every 100mm.

The supporting bearings for extensions absorb non-central forces to 6250 N.

Materials:

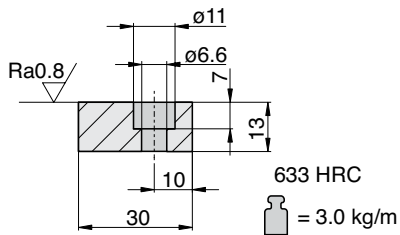
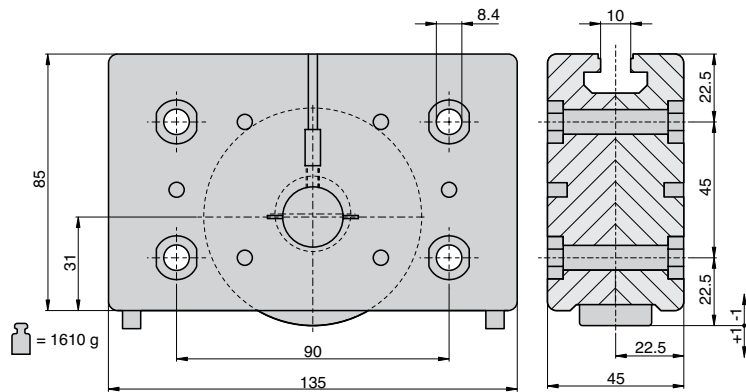
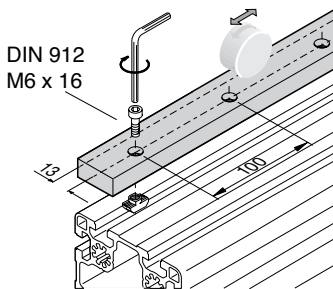
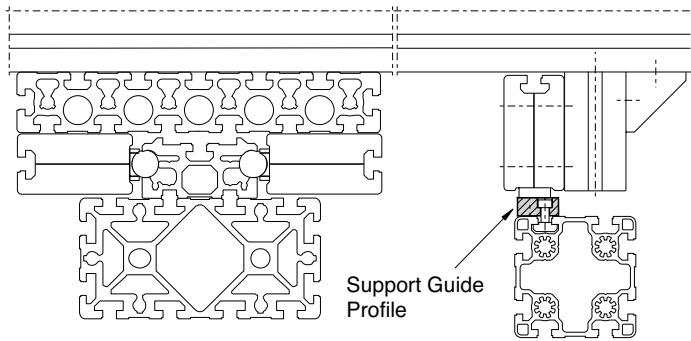
Guide profile: Hardened, polished steel

Support bearing: Die-cast aluminum

Roller: Hardened, polished steel

Load capacity of rollers:

$C_{dyn} = 24,600 \text{ N}$, $C_{stat} = 21,400 \text{ N}$



Description	Lot Size	Part Number
Profile, support guide, 2000mm	1	3 842 517 160
Profile, support guide, square cut to length	1	3 842 994 702/...mm
Bearing, support	2	3 842 535 665
DIN 912, M6 x 16, 8.8 (one reqd. every 100mm)	1	2 910 141 197
T-Nut, M6 x 10 (one reqd. every 100mm)	1	3 842 530 285

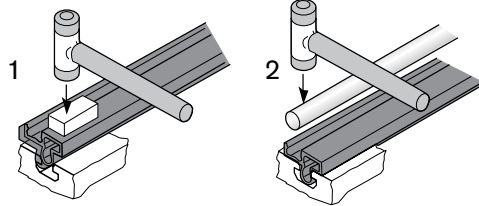
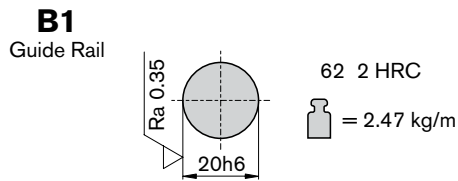
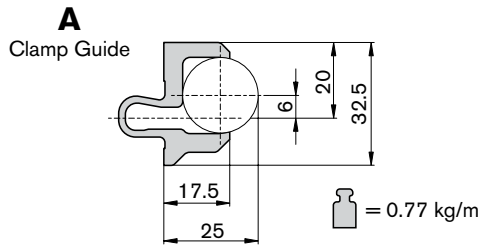
Section 14: Dynamic Linear Elements

LF20C Clamp Guide

Material:

A: AlMgSi 0.5 F25, clear anodized

B: precision steel shafts



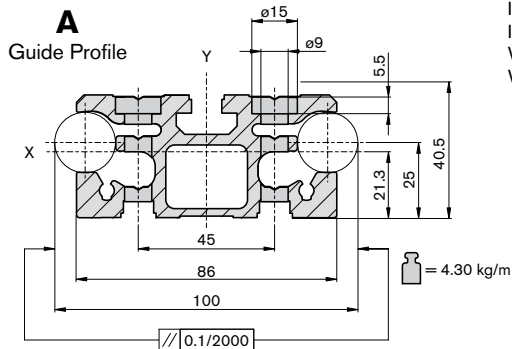
Ref	Description	Lot Size	Part Number
	Clamp guide profile L = 3000mm	1	3 842 518 895
A	Clamp guide profile L = ... mm Specify length 150mm 3000mm	1	3 842 992 441/...mm
Standard Guide Rails:			
B	L = 3000mm	1	3 842 518 880
1	L = ... mm Specify length 150mm 3000mm	1	3 842 994 649/...mm

LF20S Guide Profile

Material:

A, E: AlMgSi 0.5 F25, natural color anodized

B: precision steel shafts

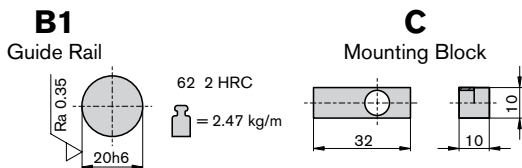
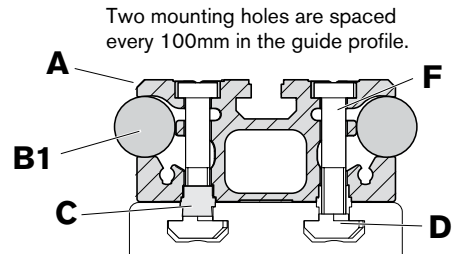


$$I_x = 29.40 \text{ cm}^4$$

$$I_y = 103.20 \text{ cm}^4$$

$$W_x = 23.95 \text{ cm}^3$$

$$W_y = 35.98 \text{ cm}^3$$



Ref	Description	Lot Size	Part Number
	Guide profile L = 5600mm	1	3 842 526 931
A	Guide profile L = ... mm Specify length 150mm 5600mm	1	3 842 993 080/...mm
Standard Guide Rails:			
B	L = 3000mm	1	3 842 518 880
1	L = ... mm Specify length 150mm 3000mm	1	3 842 994 649/...mm
C	Alignment block	1	3 842 146 877
D	T-Nut	1	3 842 530 287
F	M8 x 45 DIN 7984	1	2 910 131 252

Section 14: Dynamic Linear Elements

LF20 Linear Guides

Bearing for LF20S and LF20C

Material:
Housing: die-cast zinc
Load capacity of roller:
 $C_{stat} = 16,600 \text{ N}$, $C_{dyn} = 23,400 \text{ N}$

Felt repair kit includes 2 felts, 2 springs, 2 lubricating nipples, and 2 locks.

$\text{Weight} = 1.35 \text{ kg}$

Eccentric Adjustment

Includes fastening set

Description	Lot Size	Part Number
LF20S, LF20C Bearing	2	3 842 535 663
LF20S, LF20C Felt repair kit	1	3 842 528 521

Belt Clamps for LF20S and LF20C

Material: AlMgSi 0.5 F22, painted black

Includes fastening set.

Description	Lot Size	Part Number
LF20S belt clamp	2	3 842 535 680
LF20C belt clamp		

$\text{Weight} = 0.64 \text{ kg}$

Return Sprockets for LF20S and LF20C

Material: AlMgSi 0.5 F22, natural color anodized
 Includes fastening set.

Description	Ref.	Lot Size	H (mm)	h (mm)	Pb x Ph (mm)	Weight	Part Number
LF20S return sprocket	J	1	162.2	84.7	90x180	7.6 kg	3 842 526 415
LF20C return sprocket	G	1	211.7	134.2	180x90	9.3 kg	3 842 526 869

Section 14: Dynamic Linear Elements

Drive Sprockets for LF20S and LF20C

H1, F1
Drive Sprocket

Pulley Diameter = 100.00mm
Carriage Travel (1 revolution) = 314.16mm

H
Drive Shaft w/Key

Description	Ref.	Lot Size	H (mm)	h (mm)	Pb x Ph (mm)		Part Number
LF20S drive sprocket	H1	1	162.2	84.7	180x90	9.4 kg	3 842 526 414
LF20C drive sprocket	F1	1	211.7	134.2	90x180	11.0 kg	3 842 526 867
Drive shaft w/key	H	1	-	-	-	0.77 kg	3 842 526 895

Material:
Toothed belt pulley: AT 10/z = 32
Housing: AlMgSi 0.5 F22, natural color anodized

Includes fastening set.

Timing Belts for LF20S and LF20C

Description	Lot Size	Part Number
LF20S, LF20C L = 50,000mm	1	3 842 513 648
LF20S, LF20C L = ...mm	1	3 842 994 662/...mm

Toothed belt: AT 10
Material: PU with embedded wire mesh
Note: Specify length 300mm 50,000mm in 10mm increments

$F_{MAX} = 7500\text{ N}$

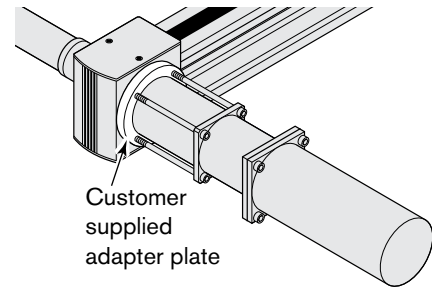
= 0.28 kg/m

Section 14: Dynamic Linear Elements

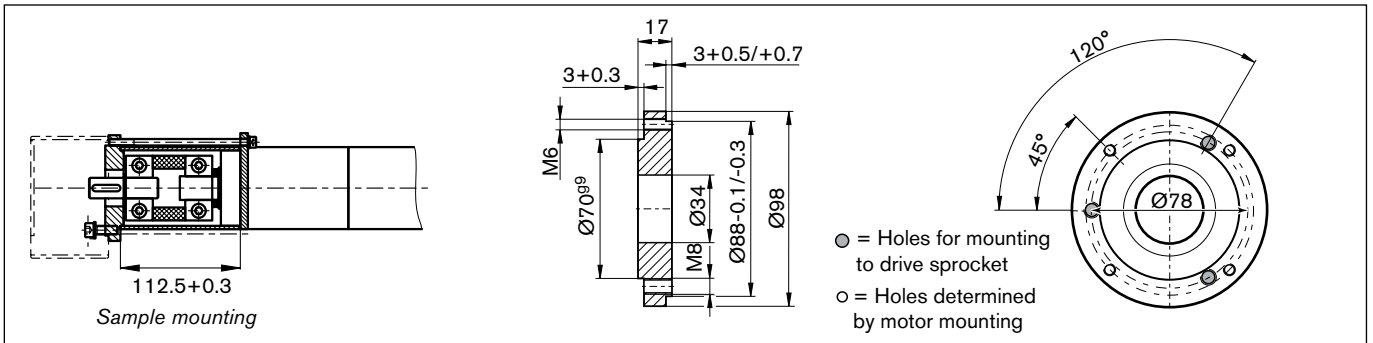
Gearmotor Adapter Plate Machining Templates

Due to the wide range of gearmotor mounting hole patterns, Bosch Rexroth does not offer gearmotor adapter plates for linear guides.

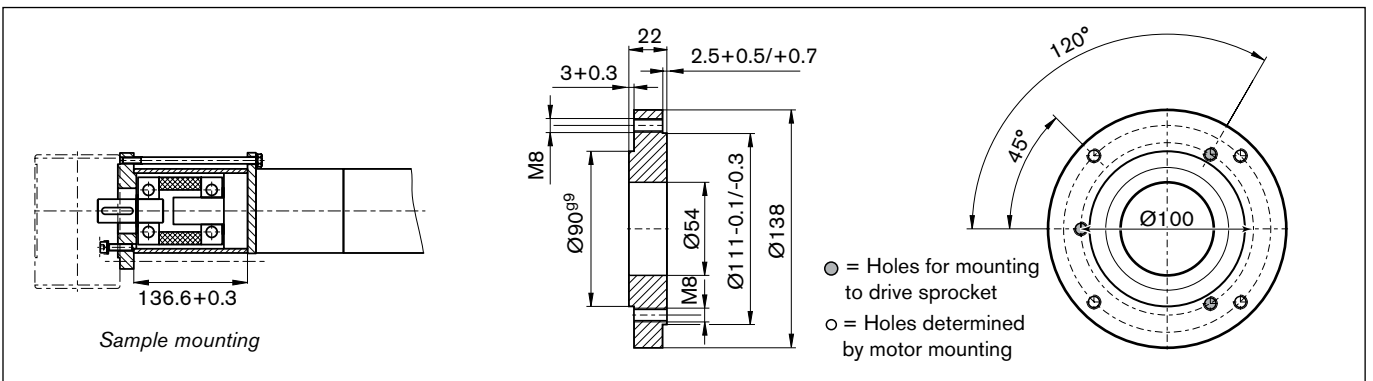
The diagrams below show the recommended dimensions, including the required mounting hole spacing and dimensions for each type of linear guide.



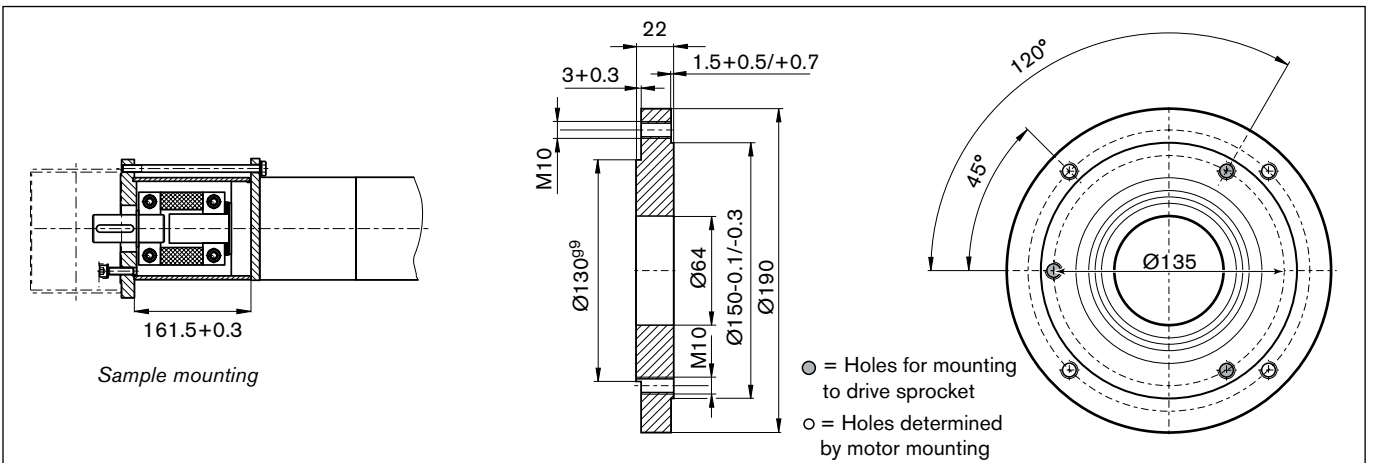
LF6S & LF6C



LF12S & LF12C



LF20S & LF20C



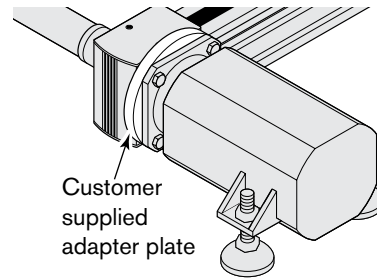
Section 14: Dynamic Linear Elements

Servomotor Adapter Plate Machining Templates

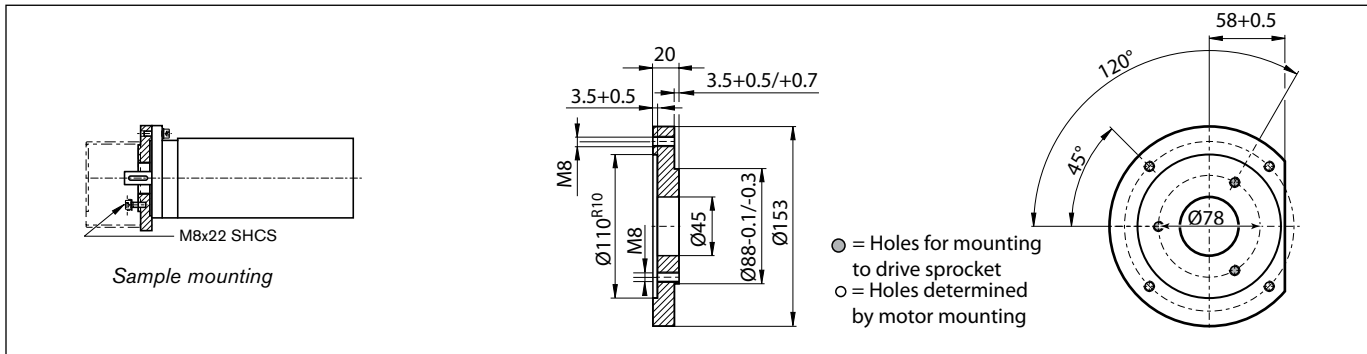
Due to the wide range of servomotor mounting hole patterns, Bosch Rexroth does not offer servomotor adapter plates for linear guides.

The diagrams below show the

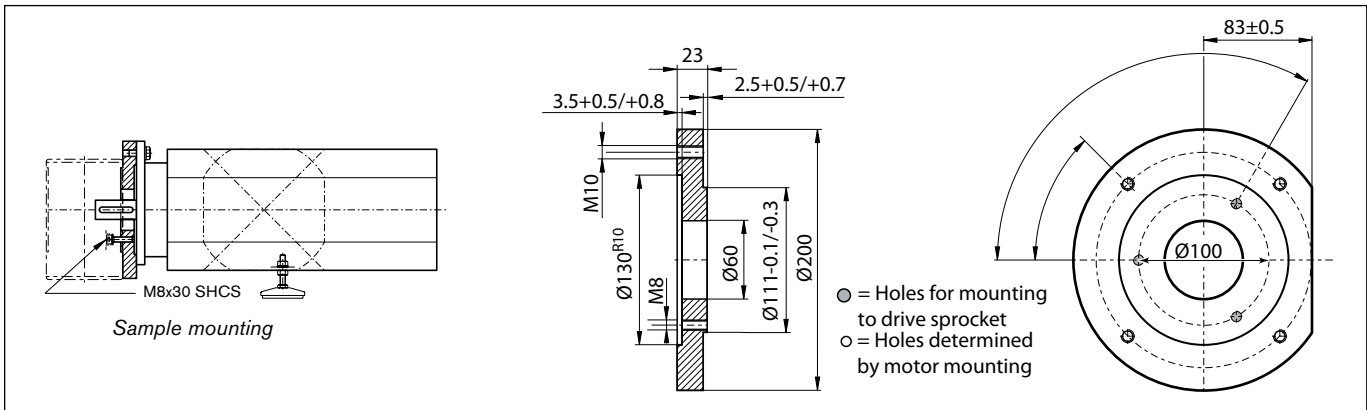
recommended dimensions, including the required mounting hole spacing and dimensions for each type of linear guide.



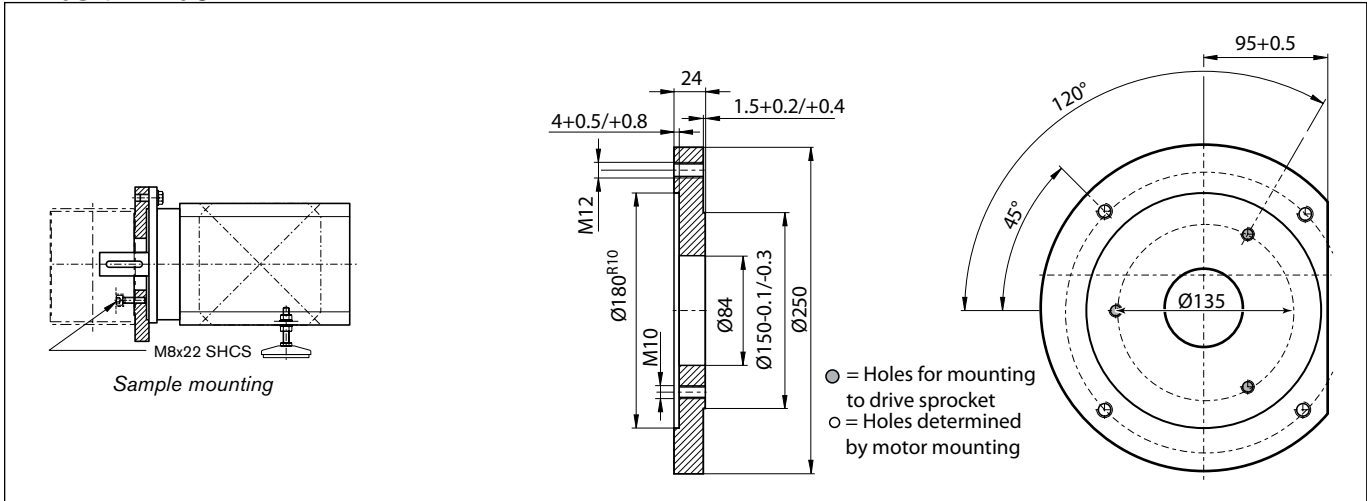
LF6S & LF6C



LF12S & LF12C



LF20S & LF20C

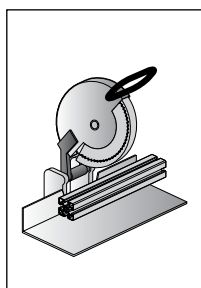


Section 15: Tools

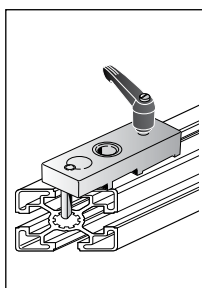
Overview

With Bosch Rexroth aluminum structural framing, you can either specify profiles square cut to length, with the ends machined to meet your needs . . . or you can cut and finish the ends yourself using Bosch Rexroth tools described on the following pages. In this section, you can select the correct special drills, drilling templates, thread taps, and wrench sets needed to complete the job quickly and with precise fits.

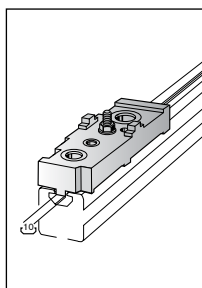
Wrenches



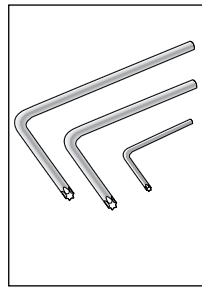
Working with Aluminum Profiles
15-1



Miter Drilling Jigs
15-2

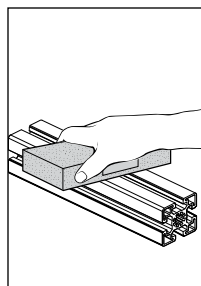


6mm, 8mm, & 10mm Drill & Boring Jigs
15-3 & 15-5

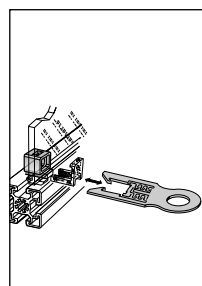


Torx Wrenches
15-6

Other Tools



Cleaning Block
15-7



VarioFix Puller
15-7

Section 15: Tools

Working with Aluminum Profiles

To cut profiles to the desired length virtually burr-free:

Cutting blade selection:

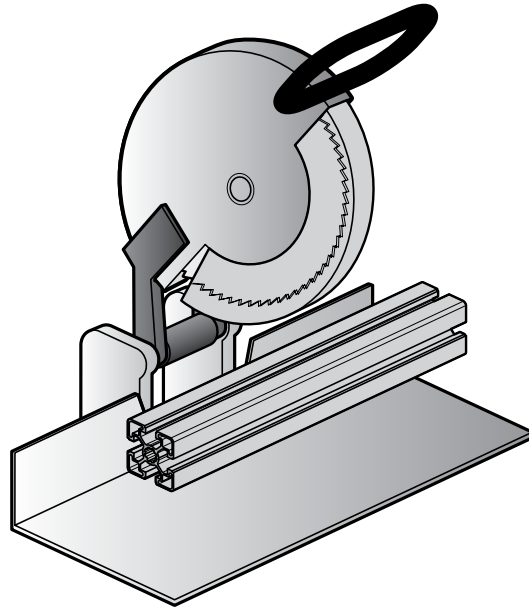
Use a metal 14-inch diameter circular saw blade that is 3.3mm or 2.8mm wide, and that has 92 carbide-tipped teeth.

Cutting speed:

- 1 For production cutting, the saw cutting rate should be approximately 28m per minute (maximum).
- 2 The saw blade rotation speed should be approximately 2500 RPM.

Removing Burrs and Sharp Edges from Profiles:

When cutting or drilling aluminum profiles, some burrs may still remain, regardless of the technique and cutter used. These can easily be removed using a fine metal file in a smooth, continuous motion along the edge to be deburred. This method is also useful for eliminating sharp edges along cut profile surfaces.



Selecting the Appropriate Drill and Tap Sizes

Metric Tap/Drill Specifications

Tap	Tap Size	Drill
M4	M4 x 0.7	3.3mm
M5	M5 x 0.8	4.2mm
M6	M6 x 1	5.0mm
M8	M8 x 1.25	6.8mm
M12	M12 x 1.75	10.2mm
M16	M16 x 2	14.0mm

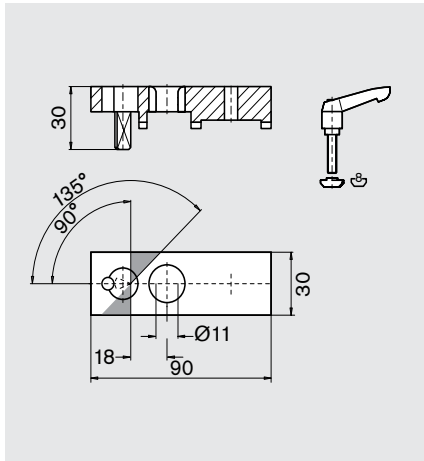
NOTE: For best results, pre-tap 40x40, 45x45, 45x60, 50x50, and 60x60-series profiles.

DO NOT predrill or tap when using self-tapping screws.

Section 15: Tools

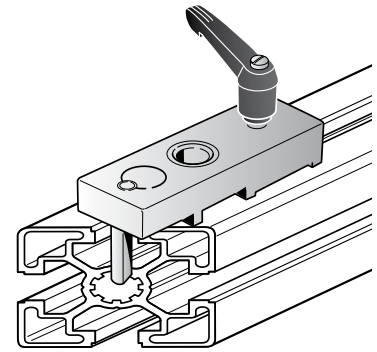
Jigs

8mm Miter Drilling Jig



Features:

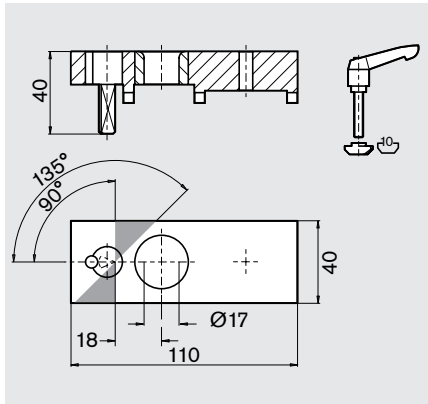
- Provides proper end spacing when drilling 11 mm holes in 8mm T-slotted profiles with a 45° end miter
- Typically used when preparing profiles for use with end-to-end and end-to-side variable angle connectors
- Built-in lock/release lever simplifies use



Description	Lot Size	Part Number
8mm miter drilling jig	1	3 842 516 729

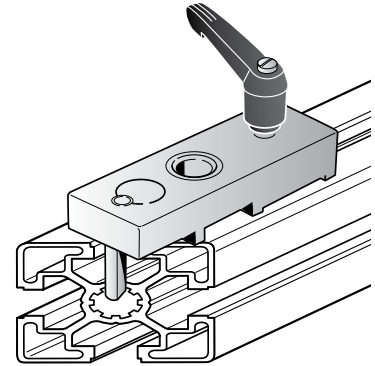
Section 15: Tools

10mm Miter Drilling Jig 



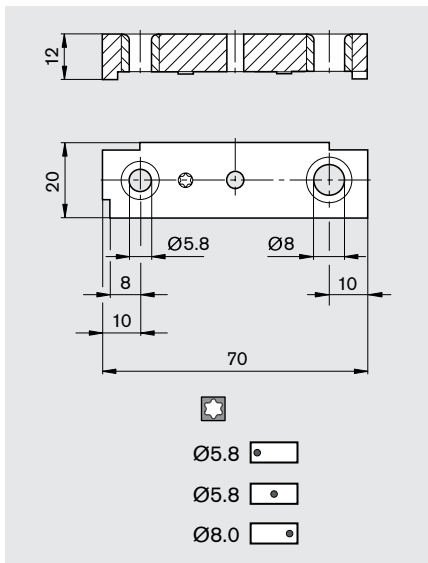
Features:

- Provides proper end spacing when drilling 17mm holes in 10mm T-slotted profiles with a 45° end miter
- Typically used when preparing profiles for use with end-to-end and end-to-side variable angle connectors
- Built-in lock/release lever simplifies use



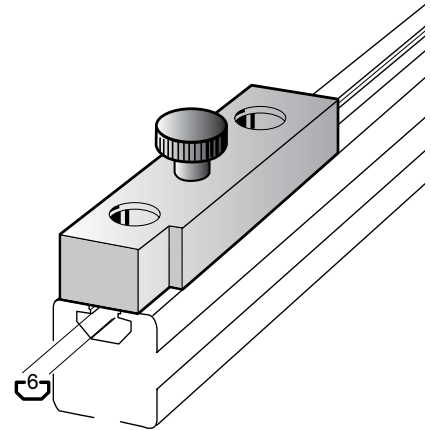
Description	Lot Size	Part Number
10mm miter drilling jig	1	3 842 516 731

6mm Drill and Boring Jig 



Features:

- Built-in lock/release knob simplifies use
- For use with profiles with 6mm T-slots, including 20x20, 20x40, etc.
- Two versions are available:
- Positions 5.8mm access holes for Torx head connection screws and 8mm holes for 20 series quick connectors.

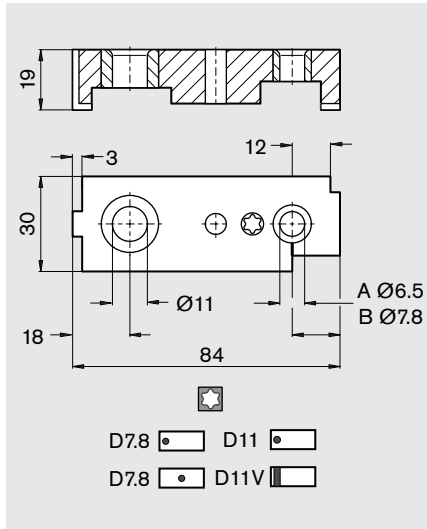


Description	Lot Size	Part Number
Drill and boring jig for 5.8mm holes 	1	3 842 537 556

Section 15: Tools

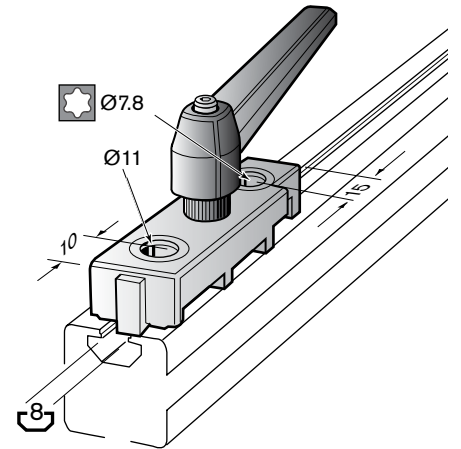
Drill Bits and Jigs

8mm Drill and Boring Jig



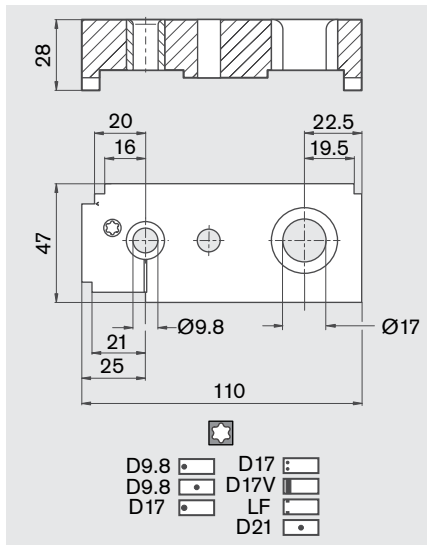
Features:

- Built-in lock/release handle simplifies use
- For use with profiles with 8mm T-slots, including 30x30, 30x60, etc.
- Two versions are available:
- Positions 7.8mm access holes for Torx head connection screws and 11mm holes for bolt connectors



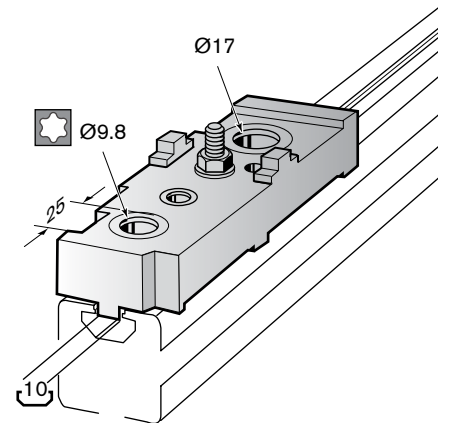
Description	Lot Size	Part Number
Drill and boring jig for 7.8mm and 11mm holes 	1	3 842 528 577

10mm Drill and Boring Jig for 40-/50-series Profiles



Features:

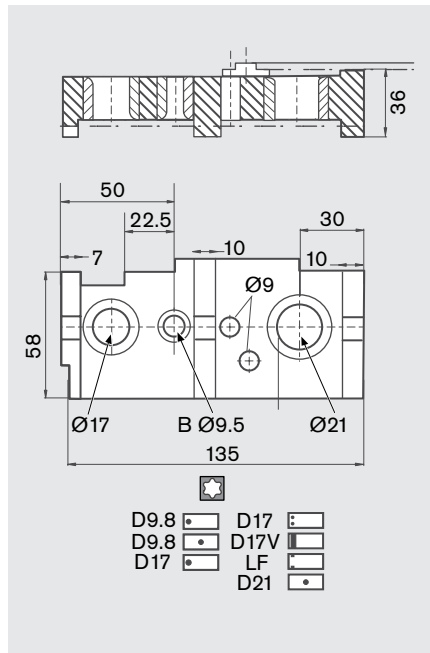
- For use with 40-series and 50-series profiles ONLY
- Fastens securely in place with a T-bolt and 13mm flange nut
- Allows positioning of 9.8mm access holes for Torx head connection screws
- Positions 17mm holes for bolt connectors and other fasteners



Description	Lot Size	Part Number
Drill and boring jig for 9.8mm and 17mm holes 	1	3 842 530 400

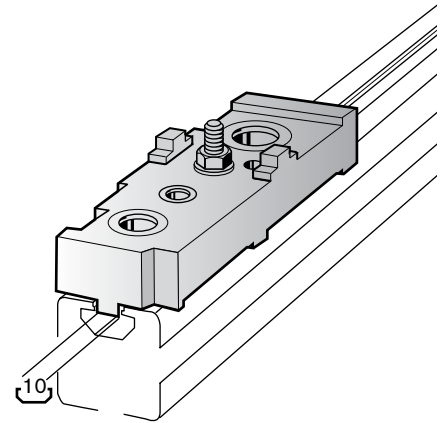
Section 15: Tools

10mm Drill and Boring Jig for 45-/60-series Profiles 



Features:

- Fastens securely in place with a T-bolt and 13mm flange nut
- For use with profiles with 45-series and 60-series profiles, including 45x45, 45x60, 60x60, 60x90, etc.
- Two versions are available:
- Positions 9.8mm access holes for Torx head connection screws, 17mm for bolt connectors, and 21mm holes for pneumatic port kits



Description

Drill and boring jig for 9.8mm, 17mm, and 21mm holes

Lot Size

1

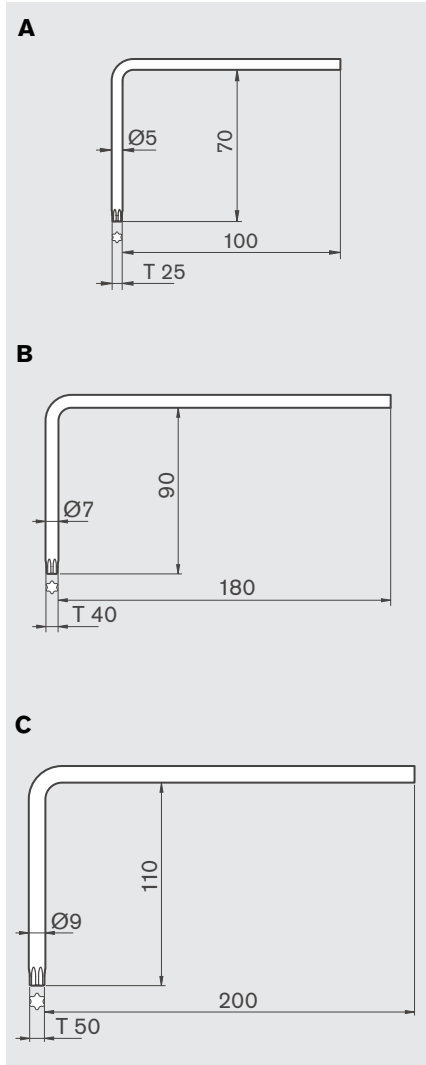
Part Number

3 842 528 574

Section 15: Tools

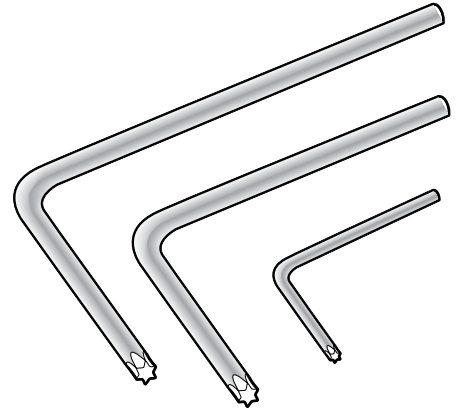
Wrenches




Torx Wrenches



Features:

- For use with S6 Torx head self-tapping connection screws
- Standard key wrench **A** features long neck to provide extra clearance
- T40 wrench for use with S8 Torx head self-tapping connection screws
- T50 wrench for use with S12 Torx head self-tapping connection screws
- Standard key wrenches (**A & B**) feature long neck to provide extra clearance



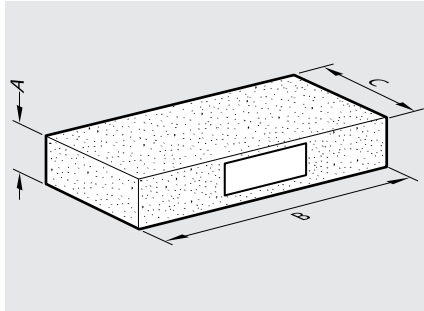
Description		Lot Size	Part Number
A T25 Torx standard key wrench 		1	3 842 528 590
B T40 Torx standard key wrench 		5	3 842 528 588
C T50 Torx standard key wrench 		5	3 842 528 586

* For smaller quantities, please contact your local distributor.

Section 15: Tools

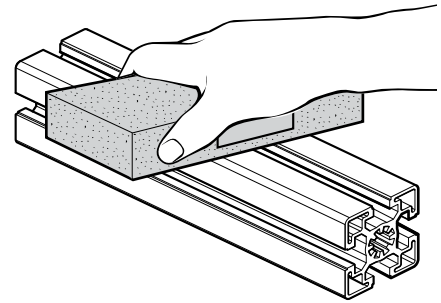
Other Tools

Cleaning Block



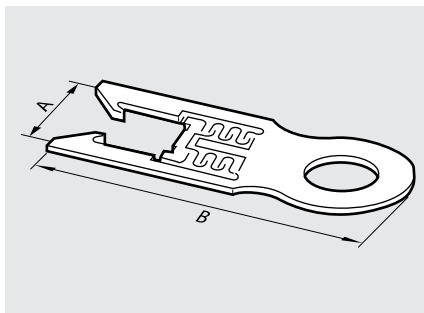
Features:

- Removes dirt, marks, and small scratches from profiles and other anodized surfaces
- Made with very long-lasting elastic-based material impregnated with fine abrasives



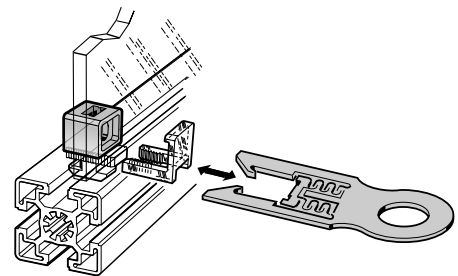
Description	Lot Size	Part Number
Cleaning block	1	3 842 518 650

VarioFix Puller



Features:

- Quickly and easily removes VarioFix clamping pieces, even in hard-to-reach areas
- Hooks over the snap-in clip of the VarioFix block, spreads the teeth on the clip, then is removed with the clip



Description	Lot Size	Part Number
VarioFix puller	1	3 842 526 589

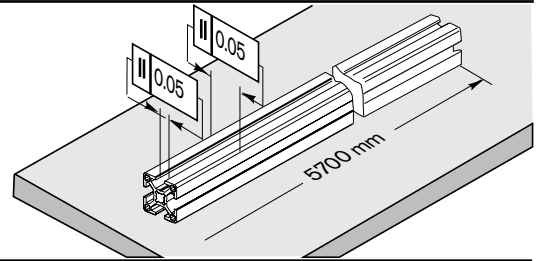
Section 16: Engineering Data and Specifications

Technical Data for Profiles

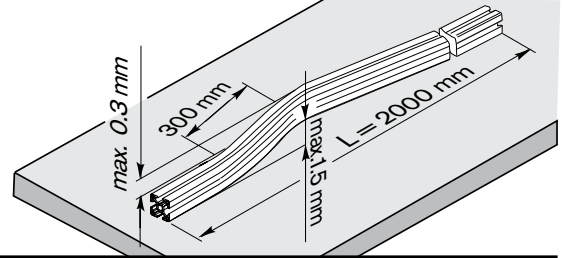
	Metric	U.S. Equivalent
Material designation according to DIN (ISO) for Bosch profiles	AlMgSi 0.5 F25	AW-6063-T66
Material number according to DIN (ISO)	3.3206.7	AW-6063-T66
Tensile strength (expected)	$R_m = 250 \text{ N/mm}^2$	(36,000 lb./in.²)
0.2% proof stress (expected)	$R_{p0.2} = 200 \text{ N/mm}^2$	(29,000 lb./in.²)
Elongation at rupture A_5 or A_{10}	$A_5 = 10\%$ $A_{10} = 8\%$	
Modulus of elasticity E	$E = 70,000 \text{ N/mm}^2$	($10 \times 10^6 \text{ lb./in.}^2$)
Brinell hardness	75 HB	
Coefficient of linear expansion	$\alpha_{(-50^\circ \dots +20^\circ \text{C})} = 21.8 \times 10^{-6} \text{ 1/K}$ $\alpha_{(+20^\circ \dots +100^\circ \text{C})} = 23.4 \times 10^{-6} \text{ 1/K}$	$\alpha_{(-58^\circ \dots +68^\circ \text{F})} = 12.1 \times 10^{-6} \text{ in./in./}^\circ \text{F}$ $\alpha_{(+68^\circ \dots +212^\circ \text{F})} = 13.0 \times 10^{-6} \text{ in./in./}^\circ \text{F}$
Poisson's ratio	$\mu = 0.34$	
Anodizing process–layer thickness–layer hardness	E6/EV1 - 12μm - 300HV	R204 -(0.0003 in-300HV)

Section 16: Engineering Data and Specifications

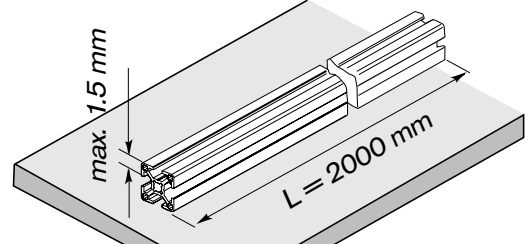
Average accuracy [mm] within a profile bar



Lengthwise profile straightness tolerance



Torsional tolerance in the lengthways direction of the profile

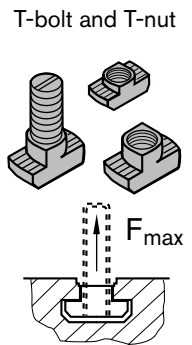
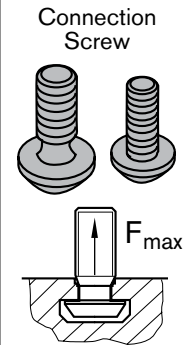
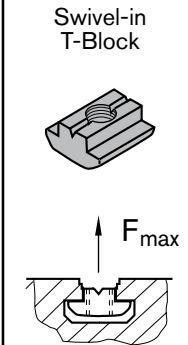
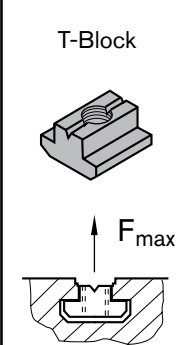


Section 16: Engineering Data and Specifications

Load Carrying Capacity

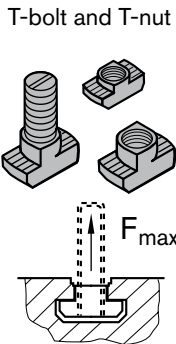
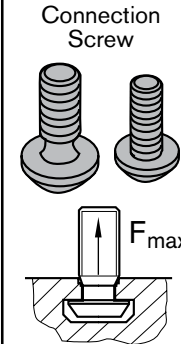
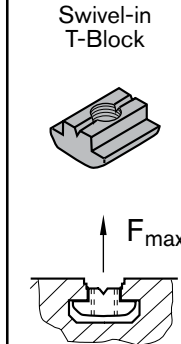
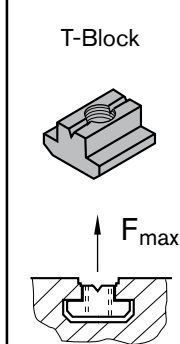
The load carrying data on the following pages has been determined by actual testing in an independent laboratory. Exceeding any of the published maximum values may cause permanent deformation of the profile T-slot or connector. As with any structural design, it is critical to consider all legal and technical safety requirements. This data supersedes all previous published data and we reserve the right to make technical changes without notice.

T-slot load carrying capacities

	 T-bolt and T-nut	 Connection Screw	 Swivel-in T-Block	 T-Block
6 Profiles with 6mm T-Slots 20x20 20x40 20x20 2SA 20x40x40 20x20 3S 20x60 20x20R	$F_{max} = 1700 \text{ N}$ (382 lbs)	$F_{max} = 2000 \text{ N}$ (450 lbs)	NA	$F_{max} = 3000 \text{ N}$ (674 lbs)
8 Profiles with 8mm T-Slots 11x20 30x30 30x30R 11x30 30x30 1S 30x30°R 22.5x180 30x30 2S 30x45°R 30x30 2SA 30x60°R 30x30 3S 30x45 30x30R 30x60 30x60x60	$F_{max} = 4000 \text{ N}$ (899 lbs)	$F_{max} = 5000 \text{ N}$ (1124 lbs)	$F_{max} = 2200 \text{ N}$ (495 lbs)	$F_{max} = 6000 \text{ N}$ (1349 lbs)
10 Profiles with standard 10mm T-Slots 15x22.5 45x45 50x50 22.5x45 45x45 1S 50x50R 22.5x45x45 45x45 2S 50x100 22.5x180 45x45 2SA 50x150 45x45 3S 40x40 45x45R 60x60 40x40 1S 45x30°R 40x40 2S 45x45°R 80x80 40x40 2SA 45x60°R 80x120 40x40 3S 45x45HR 80x160 40x40R 45x60 40x40HR 45x90 100x100 40x80 100x200 40x80x80 40x120 40x160	$F_{max} = 7000 \text{ N}$ (1574 lbs)	$F_{max} = 10000 \text{ N}$ (2248 lbs)	$F_{max} = 9000 \text{ N}$ (2023 lbs)	$F_{max} = 12000 \text{ N}$ (2698 lbs)

Section 16: Engineering Data and Specifications

T-slot load carrying capacities

	 <p>T-bolt and T-nut</p>	 <p>Connection Screw</p>	 <p>Swivel-in T-Block</p>	 <p>T-Block</p>
$\left\{ \begin{array}{l} 10 \\ \end{array} \right.$ Profiles with heavy-duty 10mm T-Slots 45x45H 60x60H 90x90 45x60H 90x180 45x90H 45x180H	$F_{\max} = 12000 \text{ N}$ (2698 lbs)	$F_{\max} = 15000 \text{ N}$ (3372 lbs)	$F_{\max} = 13000 \text{ N}$ (2922 lbs)	$F_{\max} = 17000 \text{ N}$ (3822 lbs)
$\left\{ \begin{array}{l} 10 \\ \end{array} \right.$ Profiles with super heavy-duty 10mm T-Slots 45x270H 60x90H 90x90H 90x180H 90x360H	$F_{\max} = 18000 \text{ N}$ (4046 lbs)	$F_{\max} = 22000 \text{ N}$ (4946 lbs)	$F_{\max} = 18000 \text{ N}$ (4046 lbs)	$F_{\max} = 24000 \text{ N}$ (5395 lbs)

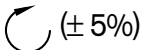
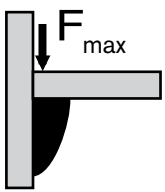
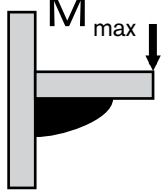
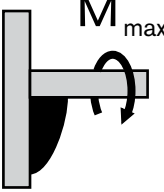









Section 16: Engineering Data and Specifications

Load carrying capacities of gussets

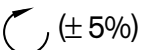
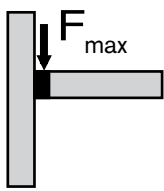
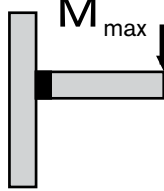
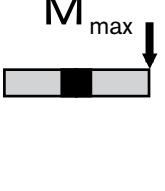












	20x20 5 Nm (44 lb-in) (5%)	6	700 N (157 lbs)	6 Nm (53 lb-in)	25 Nm (221 lb-in)	6 Nm
	20x40 5 Nm (44 lb-in)	6	1400 N (315 lbs)	15 Nm (132 lb-in)	50 Nm (443 lb-in)	8 Nm (71 lb-in)
	30x30 10 Nm (89 lb-in)	8	1250 N (281 lbs)	25 Nm (221 lb-in)	75 Nm (664 lb-in)	11Nm
	30x60 10 Nm (89 lb-in)	8	2500 N (562 lbs)	100 Nm (885 lb-in)	170 Nm (1505 lb-in)	25 Nm (221 lb-in)
	60x60 10 Nm (89 lb-in)	8	5000 N (1124 lbs)	320 Nm (2832 lb-in)	370 Nm (3275 lb-in)	110 Nm (973 lb-in)
	60x60 25 Nm (221 lb-in)	10	3000 N (674 lbs)	125 Nm (1105 lb-in)	150 Nm (1328 lb-in)	28Nm
	40x40 25 Nm (221 lb-in)	10	3000 N (674 lbs)	55 Nm (487 lb-in)	145 Nm (1283 lb-in)	35 Nm (310 lb-in)
	40x80 25 Nm (221 lb-in)	10	6000 N (1349 lbs)	180 Nm (1593 lb-in)	400 Nm (3540 lb-in)	60 Nm (531 lb-in)
	45x45 25 Nm (221 lb-in)	10	3000 N (674 lbs)	60 Nm (531 lb-in)	160 Nm (1416 lb-in)	31 Nm
	45x90 25 Nm (221 lb-in)	10	6000 N (1349 lbs)	180 Nm (1593 lb-in)	400 Nm (3540 lb-in)	60 Nm (531 lb-in)
	50x50 25 Nm (221 lb-in)	10	4000 N (899 lbs)	125 Nm (1106 lb-in)	250 Nm (2212 lb-in)	38 Nm (336 lb-in)
	50x100 25 Nm (221 lb-in)	10	7500 N (1686 lbs)	300 Nm (2655 lb-in)	600 Nm (5310 lb-in)	73 Nm (646 lb-in)
	60x60 25 Nm (221 lb-in)	10	3000 N (674 lbs)	125 Nm (1106 lb-in)	150 Nm (1328 lb-in)	28 Nm
	80x80 25 Nm (221 lb-in)	10	14000 N (3145 lbs)	500 Nm (4424 lb-in)	1000 Nm (8853 lb-in)	400 Nm (3540 lb-in)
	90x90 25 Nm (221 lb-in)	10	12000 N (2698 lbs)	370 Nm (3275 lb-in)	800 Nm (7081 lb-in)	200 Nm (1770 lb-in)
	100x100 25 Nm (221 lb-in)	10	15000 N (3372 lbs)	550 Nm (4868 lb-in)	1100 Nm (9736 lb-in)	480 Nm (4248 lb-in)

Section 16: Engineering Data and Specifications

Load carrying capacities of die-cast foundation brackets

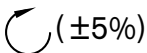
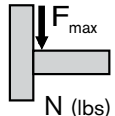
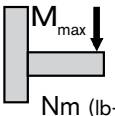
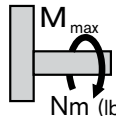
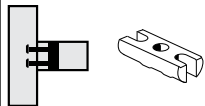
















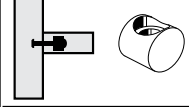




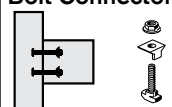


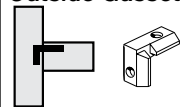




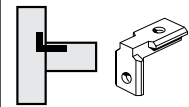






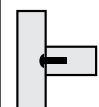








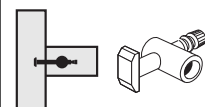






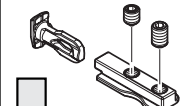










 (± 5%)					
	30x120  10 Nm (89 lb-in)		3750 N (843 lbs)	100 Nm (885 lb-in)	47 Nm (416 lb-in)
	40x160  25 Nm (221 lb-in)		9000 N (2023 lbs)	250 Nm (2213 lb-in)	60 Nm (531 lb-in)
	45x180  25 Nm (221 lb-in)		9000 N (2023 lbs)	250 Nm (2213 lb-in)	65 Nm (575 lb-in)

Load carrying capacities of T-Connectors and End-to-End Connectors

 (± 5%)						
	 M5 5 Nm (44 lb-in)	 S8 25 Nm (221 lb-in)	30x30	4000 N (899 lbs)	80 Nm (708 lb-in)	--
	 M6 10 Nm (88 lb-in)	 S12 35 Nm (309 lb-in)	40x40	9000 N (2023 lbs)	150 Nm (1328 lb-in)	--
			45x45	9000 N (2023 lbs)	200 Nm (1770 lb-in)	--
			50x50	10000 N (2247 lbs)	170 Nm (1505 lb-in)	--
	 S8 25 Nm (221 lb-in)	 M5 5 Nm (44 lb-in) S8 25 Nm (221 lb-in)	30x30	--	--	81 Nm (717 lb-in)
	 S12 35 Nm (309 lb-in)	 M6 10 Nm (88 lb-in) S12 35 Nm (309 lb-in)	40x40	--	--	170 Nm (1505 lb-in)
			45x45	--	--	200 Nm (1770 lb-in)
			50x50	--	--	180 Nm (1593 lb-in)

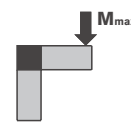
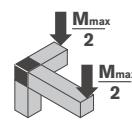































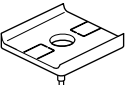

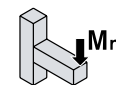
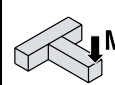

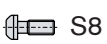









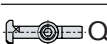



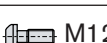





Section 16: Engineering Data and Specifications

Load carrying capacities of profile connectors

		 (±5%)	 N (lbs)	 Nm (lb-in)	 Nm (lb-in)	
Bolt Connector 	Ø11 (L = 30 mm)	 6 Nm (53 lb-in) 	2500 (562)	60 (531)	20 (177)	
	Ø17 (L = 40 mm)	 20 Nm (177 lb-in) 	4000 (899)	180 (1593)	40 (354)	
	Ø17 (L = 45 mm)	 20 Nm (177 lb-in) 	4000 (899)	180 (1593)	60 (531)	
	Ø17 (L = 50 mm)	 20 Nm (177 lb-in) 	4000 (899)	200 (1770)	65 (575)	
	Ø17 (L = 60 mm)	 20 Nm (177 lb-in) 	4000 (899)	200 (1770)	80 (708)	
	Ø17 (L = 80 mm)	 20 Nm (177 lb-in) 	5000 (1124)	800 (7080)	170 (1505)	
	Ø17 (L = 90 mm)	 20 Nm (177 lb-in) 	5000 (1124)	800 (7080)	200 (1770)	
	Ø17 (L = 100 mm)	 20 Nm (177 lb-in) 	5000 (1124)	1000 (8850)	480 (4248)	
Bolt Connector 	Ø11 (L = 11 mm)	 7 Nm (62 lb-in) 	500 (112)	50 (443)	7 (62)	
	Ø17 (L = 15 mm)	 12 Nm (106 lb-in) 	500 (112)	50 (443)	10 (89)	
Bolt Connector 	Ø28 (L = 19.5 mm)	 25 Nm (221 lb-in) 	500 (112)	50 (443)	-	
Inside-to-Outside Gusset 	8 mm	 12 Nm (106 lb-in) 	2200 (495)	50 (443)	-	
	10 mm	 15 Nm (133 lb-in) 	2800 (629)	100 (886)	-	
Inside-to-Inside Gusset 	6 mm	 3 Nm (26 lb-in) 	600 (135)	10 (89)	-	
	8 mm	 12 Nm (106 lb-in) 	2500 (562)	50 (443)	-	
	10 mm	 15 Nm (133 lb-in) 	3000 (674)	100 (886)	-	
Connection Screw 	S6 x 16 mm	 10 Nm (88 lb-in) 	500 (112)	8 (71)	-	
	S8 x 25 mm	 25 Nm (221 lb-in) 	800 (180)	43 (381)	-	
	S12 x 30 mm	 35 Nm (310 lb-in) 	1300 (292)	80 (708)	-	
	M12 x 30 mm	 35 Nm (310 lb-in) 	3000 (674)	80 (708)	-	
Quick Connector 	8 mm T-bolt Ø11 Barrel	 12 Nm (106 lb-in) 	500 (112)	40 (354)	-	
	10 mm T-bolt Ø11 Barrel	 12 Nm (106 lb-in) 	2000 (450)	70 (619)	-	
	10 mm T-bolt Ø17 Barrel	 25 Nm (221 lb-in) 	4000 (899)	140 (1239)	-	
Tension Connector 	SV8-30 series profiles	 6 Nm (53 lb-in) 	1000 (224)	35 (311)	15 (133)	
	SV10L-45 series profiles	 15 Nm (133 lb-in) 	3500 (786)	110 (975)	30 (266)	
	SV10	40H series profiles	 15 Nm (133 lb-in) 	3500 (786)	110 (975)	30 (266)
		45H series profiles	 15 Nm (133 lb-in) 	3500 (786)	110 (975)	30 (266)
		60H series profiles	 15 Nm (133 lb-in) 	3500 (786)	195 (1728)	60 (531)

Section 16: Engineering Data and Specifications

Load carrying capacities of profile connectors

				 Nm (lb-in)		 Nm (lb-in)	
 (±5%)							
Corner Cube 20/2S	 6 mm	 10 Nm (88 lb-in)	 6	18 (159)	-		
Corner Cube 20/3S	 6 mm	 10 Nm (88 lb-in)	 6	-	23 (204)		
Corner Cube 30/2S	 8 mm	 25 Nm (221 lb-in)	 8	80 (709)	-		
Corner Cube 30/3S	 8 mm	 25 Nm (221 lb-in)	 8	-	85 (753)		
Corner Cube 40/2S	 10 mm	 35 Nm (310 lb-in)	 10	60 (532)	-		
Corner Cube 40/3S	 10 mm	 35 Nm (310 lb-in)	 10	-	70 (620)		
Corner Cube 45/2S	 10 mm	 35 Nm (310 lb-in)	 10	45 x 45 150 (1329)	-		
				45 x 45H 200 (1772)	-		
Corner Cube 45/3S	 10 mm	 35 Nm (310 lb-in)	 10	45 x 45 -	170 (1506)		
				45 x 45H -	240 (2126)		
Corner Cube 50/2S	 10 mm	 35 Nm (310 lb-in)	 10	120 (1063)	-		
Corner Cube 50/3S	 10 mm	 35 Nm (310 lb-in)	 10	-	140 (1240)		
Radius Compensator		These values were determined under static conditions and are guide values only. Allow appropriate safety margins during planning!					
 30x30	 S8	 25 Nm (221 lb-in)	 8	600 (135)	37 (327)	28 (248)	
	 Quick Connector	 12 Nm (106 lb-in)	 8 ▶ 8	600 (135)	37 (327)	28 (248)	
 40x40	 M12, S12	 30 Nm (310 lb-in)	 10	1000 (224)	47 (416)	55 (487)	
	 Quick Connector	 22 Nm (221 lb-in)	 10 ▶ 10	1000 (224)	47 (416)	55 (487)	
 45x45	 M12, S12	 35 Nm (310 lb-in)	 10	1200 (270)	53 (469)	59 (522)	
	 Quick Connector	 25 Nm (221 lb-in)	 10 ▶ 10	1200 (270)	53 (469)	59 (522)	

* Load Ratings when Radius Compensator is used with indicated connector

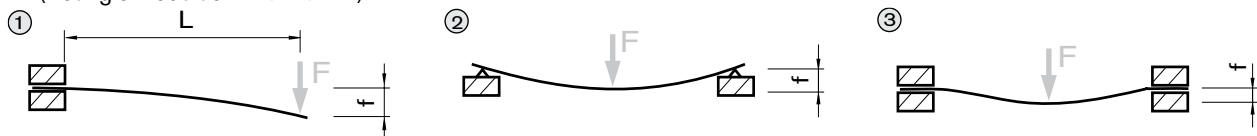
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Bending Deflection for Aluminum Profiles

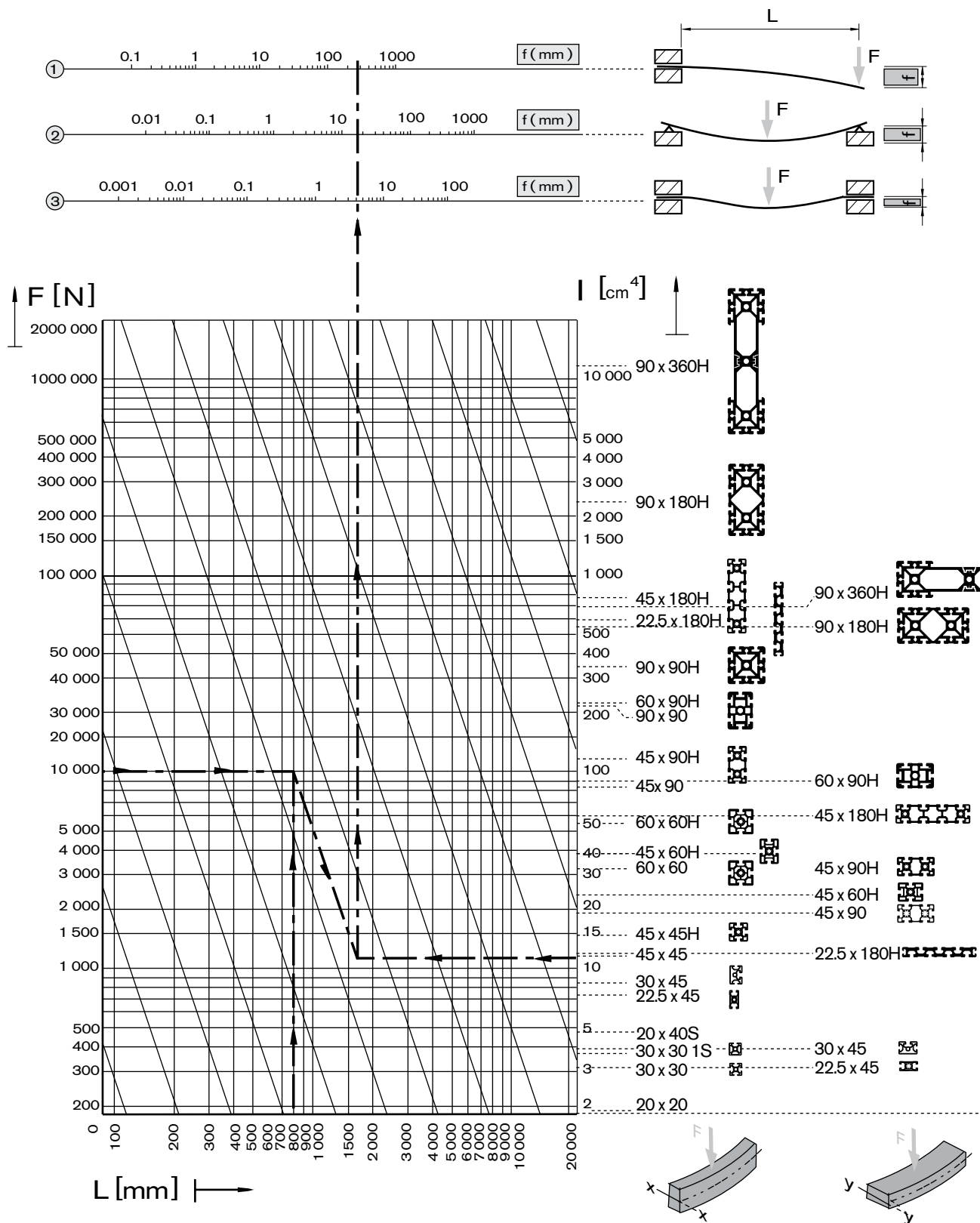
	Metric	U.S. Equivalent
Profile bending deflection for static load case①②③ from force F.	$f_{①} = \frac{F \times L^3}{3E \times I \times 10^4}$ mm	$f_{①} = \frac{FL^3}{3EI}$ in
	$f_{②} = \frac{F \times L^3}{48E \times I \times 10^4}$ mm	$f_{②} = \frac{FL^3}{48EI}$ in
	$f_{③} = \frac{F \times L^3}{192E \times I \times 10^4}$ mm	$f_{③} = \frac{FL^3}{192EI}$ in
Profile bending deflection from the profile's own weight	$f_{①} = \frac{F \times L^3}{8E \times I \times 10^4}$ mm	$f_{①} = \frac{FL^3}{8EI}$ in
	$f_{②} = \frac{5 \times F \times L^3}{384E \times I \times 10^4}$ mm	$f_{②} = \frac{5FL^3}{384EI}$ in
	$f_{③} = \frac{F \times L^3}{384E \times I \times 10^4}$ mm	$f_{③} = \frac{FL^3}{384EI}$ in
Determination of maximum occurring bending stress	$\sigma_{mm}^{①} = \frac{F \times L}{W \times 10^3}$	$\sigma_{in}^{①} = \frac{FL}{W}$
	$\sigma_{mm}^{②} = \frac{F \times L}{4W \times 10^3}$	$\sigma_{in}^{②} = \frac{FL}{4W}$
	$\sigma_{mm}^{③} = \frac{F \times L}{8W \times 10^3}$	$\sigma_{in}^{③} = \frac{FL}{8W}$
$\sigma_{max} < 200 \text{ N/mm}^2$		σ_{max} = maximum allowable bending stress = 28,000 lb/in ²

E = modulus of elasticity = 70,000 N/mm²
(Young's modulus = 10x10⁶ lb/in²)

Force = F [N](lb)
Amount of Deflection = f [mm](in)
Length of Profile = L [mm](in)
Inertia = I [cm⁴](in⁴)
Section Modulus = W [cm³](in³)



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Example: 1. $F = 10000 \text{ N}$; 2. $L = 800 \text{ mm}$; 3. $f_{\text{max}} = 4 \text{ mm}$; $\rightarrow I_{\text{min}} = 11.0 \text{ cm}^4 \rightarrow$ **45 x 45**

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Common Metric-English Conversion Factors

Metric/English Conversion Chart

Measurement	Multiply	by	to get:
Linear	millimeters (mm)	0.03937	inches
	inches	25.4	millimeters (mm)
	kilometers (km)	0.6214	miles
	miles	1.6093	kilometers (km)
Area	millimeters ² (mm ²)	0.00155	inches ²
	inches ²	645.16	millimeters ² (mm ²)
Volume	centimeters ³ (cm ³)	0.06102	inches ³
	inches ³	16.387	centimeters ³ (cm ³)
	1 cm ³ = 1 milliliter (mL)		
Acceleration	meter/second ² (m/s ²)	39.37	inch/second ²
	inch/second ²	0.0254	meter/second ² (m/s ²)
Velocity	meter/second (m/s)	3.281	feet/second
	feet/second	0.3048	meter/second (m/s)
Mass	kilogram (kg)	2.2046	pounds
	pounds	0.4536	kilogram (kg)
Force	kilograms-f (kgf)	9.807	Newtons (N)
	Newtons (N)	0.10194	kilograms-f (kgf)
	pounds-f	4.448	Newtons (N)
	Newtons (N)	0.2248	pounds-f
Pressure	bar	14.5	PSI
	PSI	0.069	bar
Torque	Newton-Meters (Nm)	8.851	pound-inches
	pound-inches	0.11298	Newton-Meters (Nm)
Moment of Inertia	centimeters ⁴ (cm ⁴)	0.02403	inches ⁴
	inches ⁴	41.623	centimeters ⁴ (cm ⁴)

Metric Tap/Drill Specifications

Tap	Thread	Drill Size
M4	M4 x 0.7	3.3mm
M5	M5 x 0.8	4.2mm
M6	M6 x 1	5.0mm
M8	M8 x 1.25	6.8mm
M12	M12 x 1.75	10.2mm
M16	M16 x 2	14.0mm

Common Tolerances Referenced in This Catalog

Tolerance	Max.	Min.
Ø10H8	+0.022	0
Ø19H7	+0.021	0
Ø28H7	+0.021	0
Ø38H7	+0.025	0
Ø6H8	+0.018	0
Ø8H8	+0.022	0
Ø6h6	0	-0.008
Ø12h6	0	-0.011
Ø19g6	-0.007	-0.020
Ø28g6	-0.007	-0.020
Ø38g6	-0.009	-0.025

Quick Conversion Chart

Millimeters	Inches	Feet
20	0.79	0.07
30	1.18	0.10
45	1.77	0.15
60	2.36	0.20
90	3.54	0.30
180	7.09	0.59
1000	39.37	3.28
2000	78.74	6.56
5600	220.47	18.37
6000	236.22	19.68

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Temperature Properties for Key Materials

Metric Temperature Conversion

Degrees Celsius	$\frac{5 \times (\text{degrees F} - 32)}{9}$
Degrees Fahrenheit	$\frac{(9 \times \text{degrees C})}{5} + 32$

Aluminum 6063-T6 Alloy Temperature Characteristics

Characteristic	Temperature Range	Observed Events
creep/elongation	less than 100° C	No observed increase in the amount of creep. Creep, or plastic elongation, is typically observed at prolonged exposure to temperatures in excess of 100° C.
ultimate and yield strength	up to 100° C	Metal retains approximately 95% of its original and ultimate yield strength.
	down to -100° C	Metal typically undergoes an approximately 10% increase in both ultimate and yield strength.

NOTE: Repeated cycling of metal through this type of thermal cycle can lead to eventual fatigue and subsequent failure.

Temperature Ranges for Plastics

Material	Abrv.	Temperature Range in °C	
		Low	High
Polycarbonate	PC	-40C	115C
Polyethylene	PE		100C
Polyvinyl Chloride	PVC	-5C	60C
Polyoxymethylene	POM	-40C	100C
Polypropylene	PP		100C
Buna N Nitrile	NBR	-40C	120C*
Polyurethane	PU		92C
Polyurethane Elastomer	PUR	-25C	80C
Delrin® 100	Delrin 100	NA	90C
Polyamide 6	PA6	-40C	80C
Polyamide 12	PA12	-40C	80C
Polyamide 66	PA66	-40C	90C
Thermoplastic Elastomer	TPE		60C
ABS	ABS	-40C	70C

* Dry air only

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Technical Specifications for Key Materials

Delrin® 100 Technical Specifications

Characteristic	Units	Specifications
Specific Gravity	g/cm	1.41 - 1.42
Rockwell Hardness		R119 - 112
Water Absorption	%	0.25
Shear Strength	psi	9,500
Compressive Strength	psi	18,000
Tensile Strength	psi	10,000
Dielectric Strength	v/mm	380 - 500
Flexural Modulus of Elasticity		375,000
Flexural Yield Strength	psi	14,300
Elongation	%	12 - 75
Max. Continuous Temp.	C (F)	90° (195°)
Melting Point	C (F)	175° (347°)
Density		88.6
Coefficient of Friction	%	0.12
Effect of Weak Acids		Resistant to Some
Effect of Strong Acids		Attacked
Effect of Weak Alkalies		Resistant to Some
Effect of Strong Alkalies		Attacked
Effect of Organic Solvents		Excellent Resistance
Key Words		Impact Resistant
Machinability		Excellent
Compliances		FDA and USDA

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Making Basic Connections

Using T-bolts and T-nuts

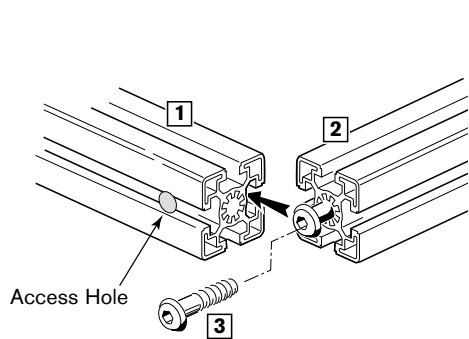
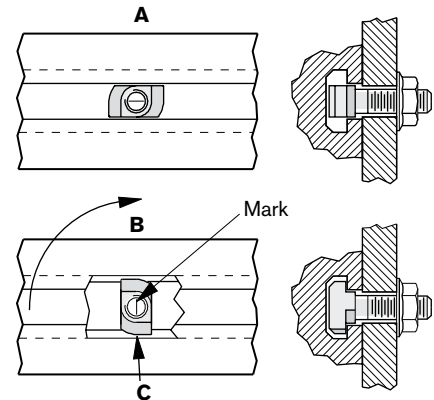
Bosch Rexroth Aluminum Structural Framing components attach to a profile's T-slot using T-bolts or T-nuts.

The drawing to the right illustrates the procedure for using T-bolts and T-nuts. First insert the T-bolt into slot (A), and tighten down the flange nut. As the nut tightens, it will turn the T-bolt 90° in the slot (B), creating a friction lock (C).

The same principle applies to T-nuts. Refer to the appropriate catalog page or Section 17 for torque specifications.

ASSEMBLY HINT:

T-bolts have a mark on the end of the threaded shaft that is in line with the T-bolt head. The T-bolt is correctly positioned when this mark is perpendicular to the T-slot.



Using Connection Screws

When using a connection screw to make a 90° connection, an access hole must first be drilled into the end of profile (1) as shown at left. Dimensions vary depending on the profile size and can be found on the appropriate profile page in this catalog.

After drilling the access hole in the end of profile (1), thread a connection screw (3) into the end of profile (2). Tighten the screw until the threads are all the way

into the profile end, leaving enough of the screw exposed to slide freely along the T-slot.

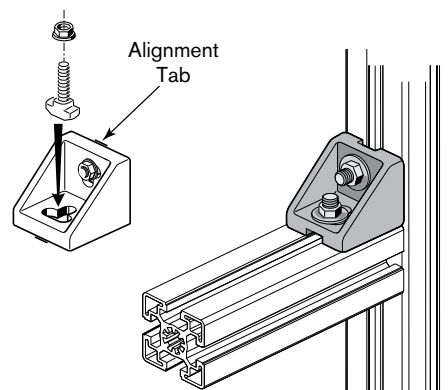
Now slide the profile with connection screw (2) into the T-slot of profile (1), adjacent to the access hole.

Tighten the connection screw through the access hole in profile (1) with the appropriate size Allen wrench. Refer to the appropriate catalog page or Section 17 for torque specifications.

Installing Gussets

Insert T-bolts with flange nuts threaded onto the ends through the gusset mounting holes. Line the gusset up in the profile's T-slot using the alignment tabs on the gusset. Insert the T-bolt into the profile's T-slot, then tighten the flange nut to turn and lock the T-bolt.

Refer to the appropriate catalog page or Section 17 for torque specifications.



MTpro

Innovative Planning Software for Designs and Applications

Get it today... More details and information on how to order can be found online at www.boschrexroth-us.com/mtpro

MTpro software from Bosch Rexroth Corporation simplifies assembly system planning and application by using 3D solid model and electronic catalog technology to put all required product information within easy reach. The software saves OEMs, integrators and end users time and money in the planning, layout and procurement of components and complete modules for assembly and packaging applications.

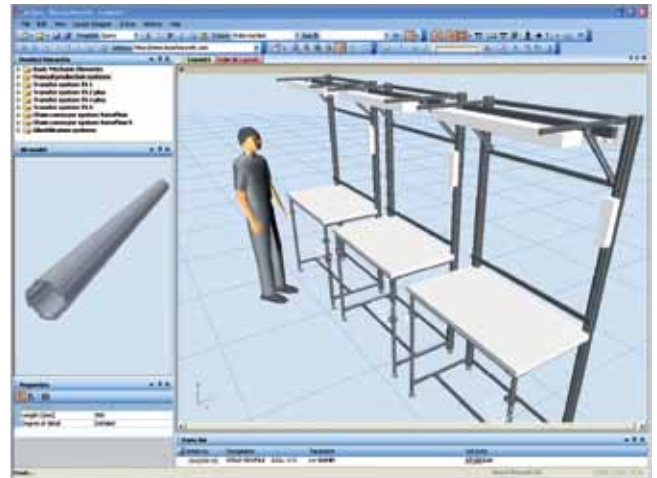
Compatible with Windows 7 (32-bit and 64-bit versions), XP and Vista, MTpro offers Rexroth's most complete collection of assembly technologies 3D solid model geometries, exportable into most major design software formats. Layout Designer, a powerful layout design tool that allows "snap-together" design of products into more complex system layouts without the need for an external CAD or 3D layout tool. The Layout Designer software is a separate module, but is included for a

60-day free trial on each MTpro CD. While all other functions of MTpro are available free of charge, continuation of Layout Designer beyond the trial period requires a nominal activation fee and registration after the trial period expires.



The integrated product configurator supports users during the selection of technical parameters and directly displays the chosen configuration as a 3-D model. Users can transfer 3-D models and 2-D drawings into their own systems via direct interfaces to all common CAD programs. In addition, MTpro also enables retroac-

tive modifications to components and parts list information in selected CAD systems.



Users without CAD experience can use this software to design workstations, flow rack systems, manual links and material shuttles. The user-friendly system allows users to create their designs by either using a guided parameter selection system for configurable products or by assembling various discrete components. A comprehensive set of rules covers the design logic, all product dimensions and the necessary information on accessories.

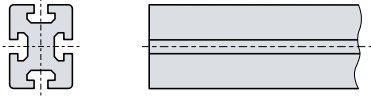
With its simple administrative functions, this new software speeds up the entire procurement process. The user transfers the configured components into an order list using a drag and drop function. This list includes all necessary order information from the part number and additional ordering parameters to component weight and packing units. The software's user interface can be tailored to individual working styles and can be run directly from the DVD without any installation.

MTpro is a trademark of Bosch Rexroth Corporation. AutoCAD and AutoCAD LT are registered trademarks of Autodesk.

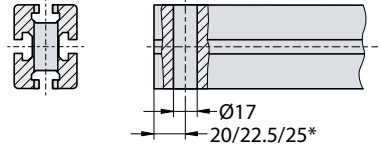
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T-Slotted Profiles End Machining Options

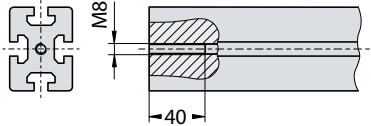
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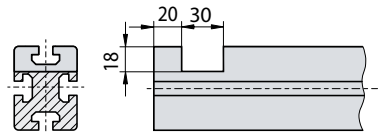
D17VS



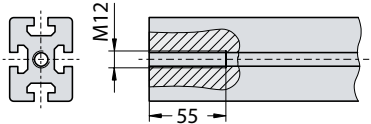
M8



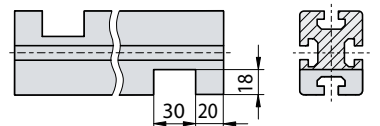
F1



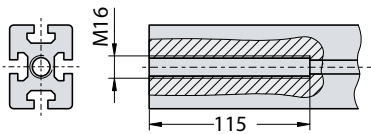
M12



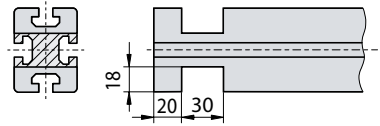
F1/F1VS



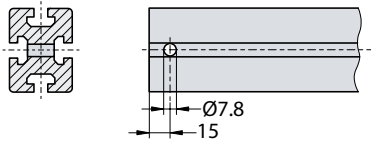
M16



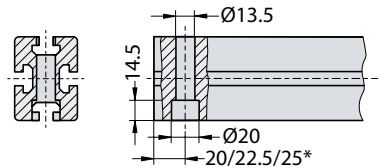
F2



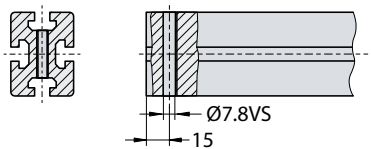
D7.8



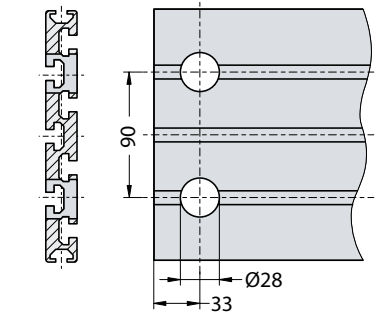
D13-20VS



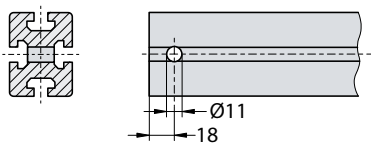
D7.8VS



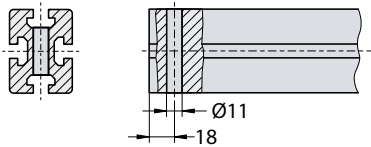
D28



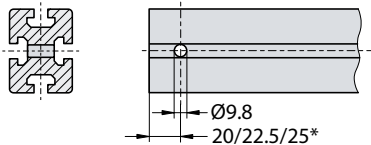
D11



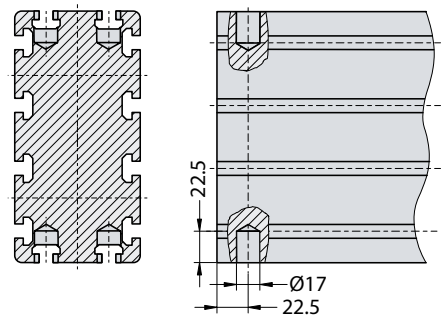
D11VS



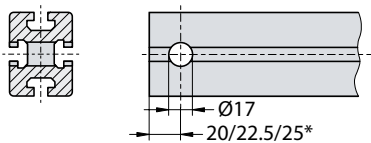
D9.8



LF



D17



* 40-series/45-series/50-series profiles

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USA

Bosch Rexroth Corporation
Corporate Headquarters
14001 South Lakes Drive
Charlotte, NC 28273
Telephone (800) 438-5983
Facsimile (704) 583-0523

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