

Section 1: Introduction

Quick Reference to Catalog Sections

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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.

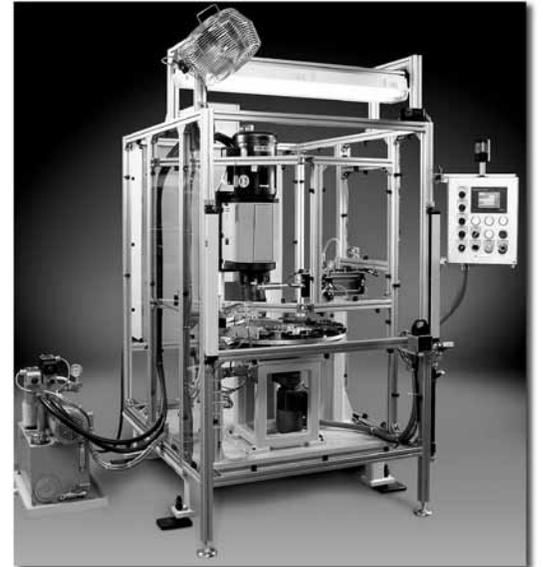
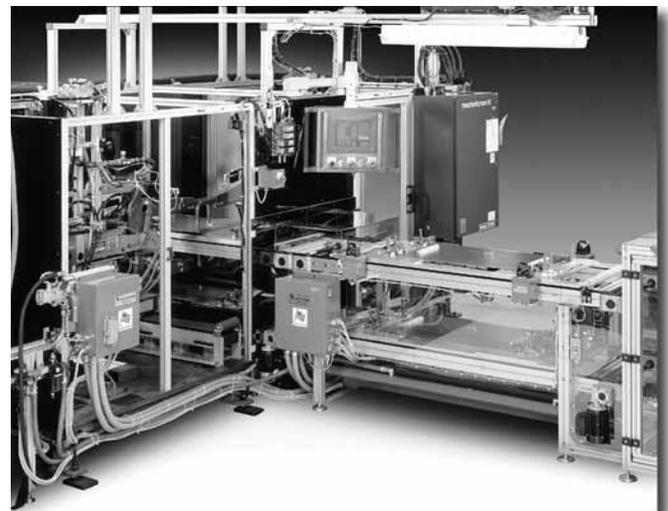
Although Bosch Rexroth invented aluminum structural framing in Europe over 30 years ago, today most of the material used in the system is made in America and, of course, is stocked here, too. In fact, all North American Bosch Rexroth distributors maintain a complete inventory of almost all the items 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?**

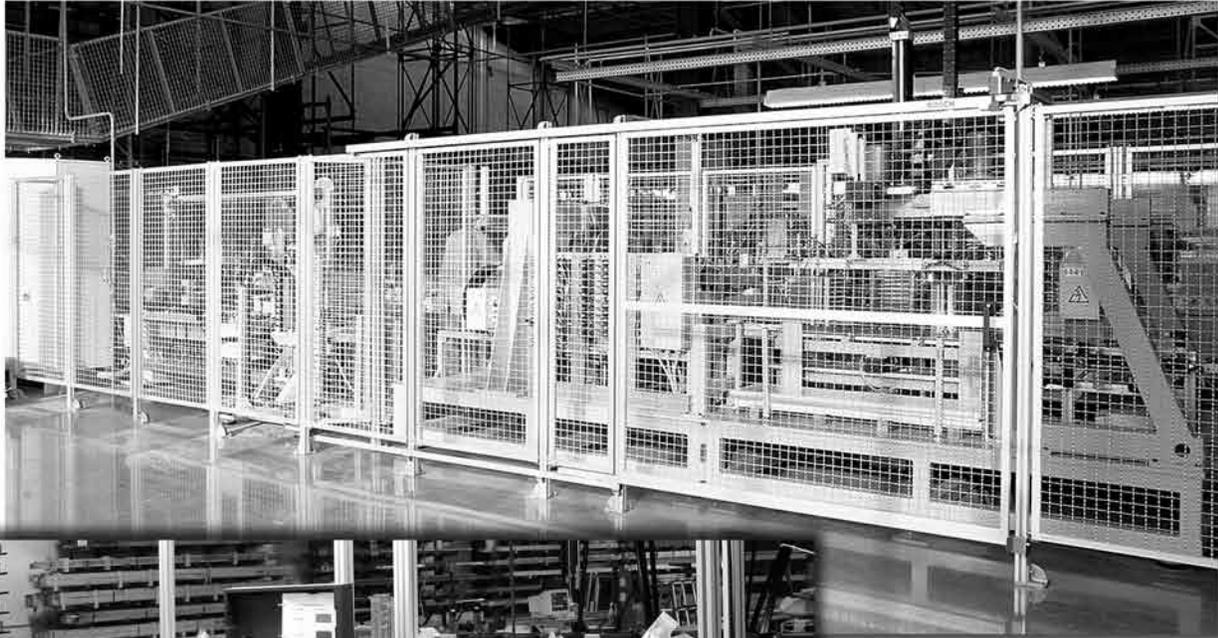
We realize every question you have probably won't be answered by this catalog. So call **1-800-REXROTH (1-800-739-7684)**, and someone from our fully trained staff will be happy to help you. If you'd like, they can send you our *MTpro* Planning software to help you design a project. See inside back cover 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

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EcoSafe Guarding Enclosure



Manual Workcell



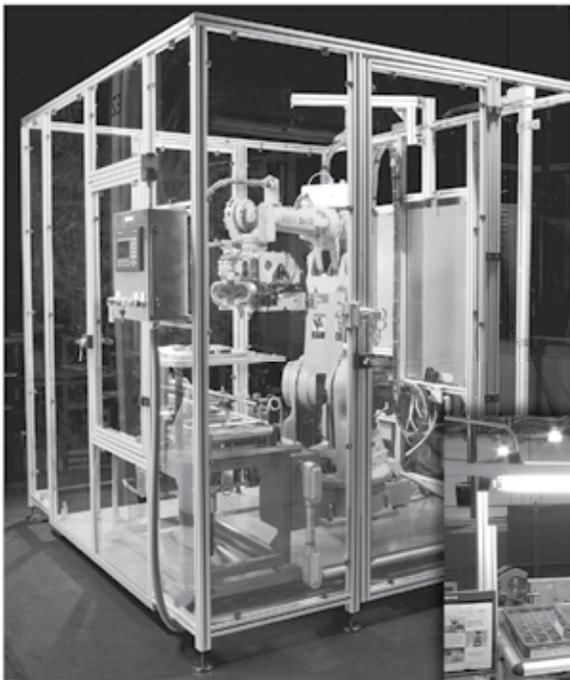
Workstation with Manual Conveyor

Section 1: Introduction



Clean Room Enclosure

Automated Assembly Line



Enclosed Welding Station



Lean Workcell

Section 1: Introduction

1

Selecting Profiles and Components

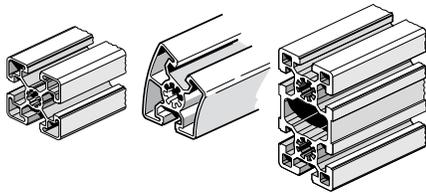
Select the profile

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.

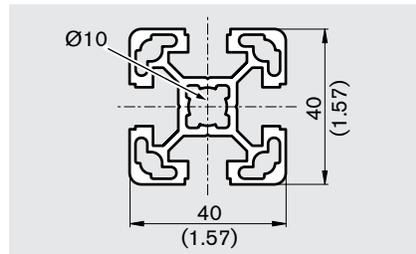
For an overview of available profiles, as well as their technical specifications, see pages 2-0 to 2-7.

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.

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Connect it all together

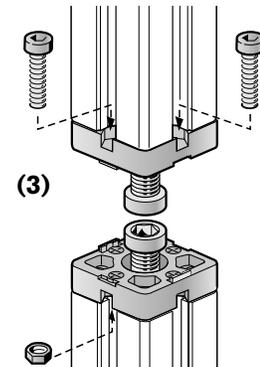
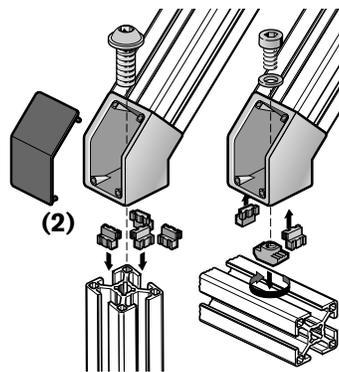
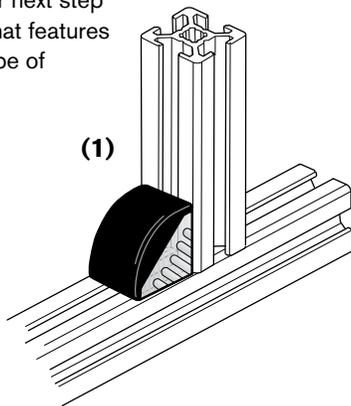
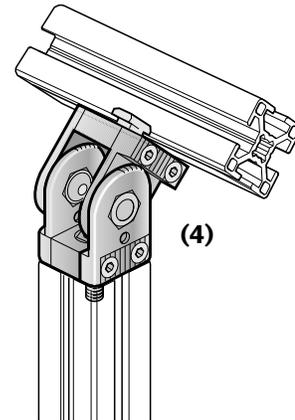
Bosch Rexroth offers a variety of different connectors and fasteners for different applications, materials, and strength requirements.

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.

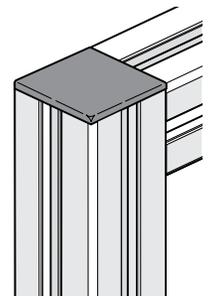
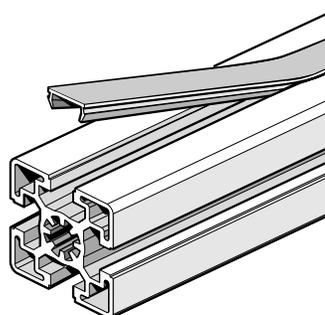
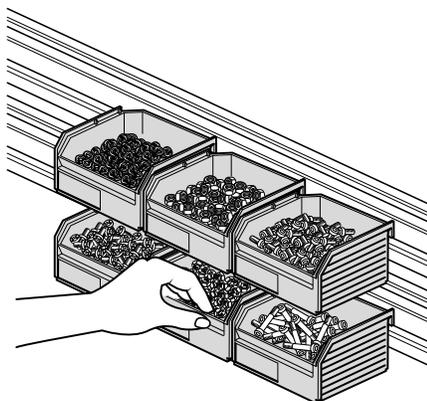
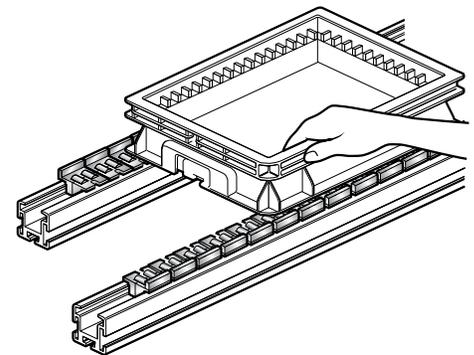
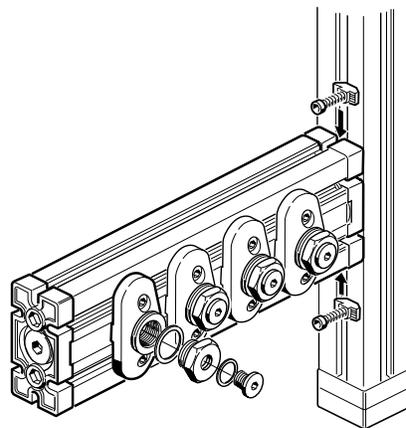
The first step is to determine what kind of connection you need to do the job you want. Your next step is to determine what features you want in the type of connection that you've selected.

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.



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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

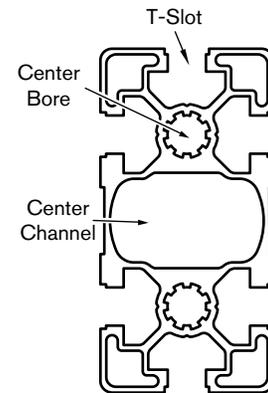
Most non-profile products, such as connectors, end caps, tools, etc. include a column after the description labeled "Lot Size". Unless specifically indicated, all part numbers of non-profile components are single-piece part numbers. However, many items are only available in larger packages, or lots. 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.

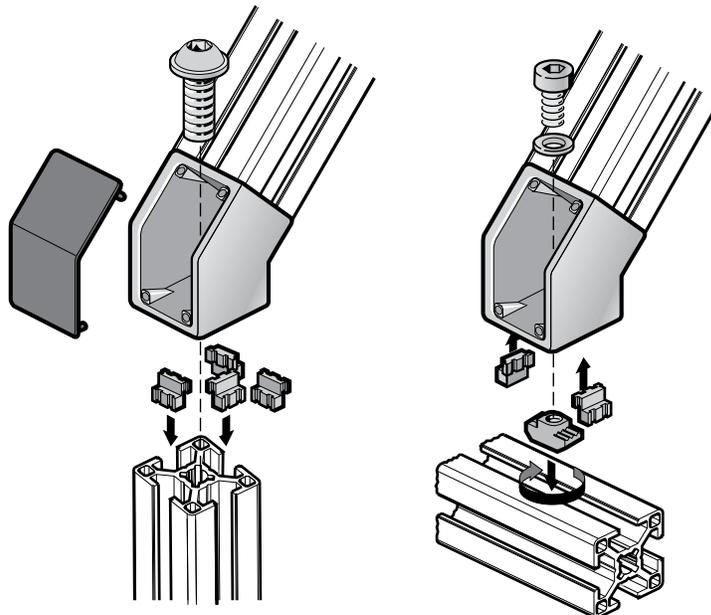


What is included?

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.



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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

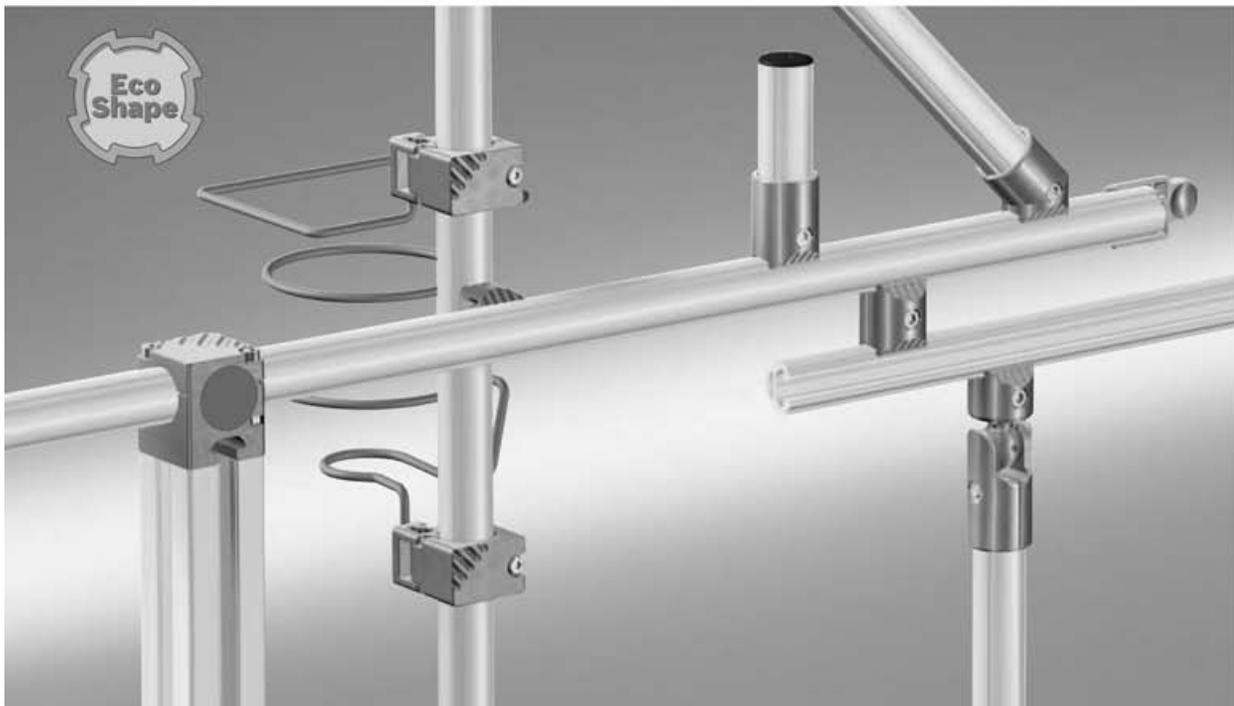
EcoShape 1.1 | 3842541 818 (excerpt) (2010.02)

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.

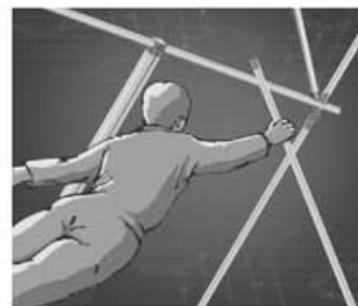
It's the ideal combination of efficiency and lean management. Sometimes less is simply more!

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

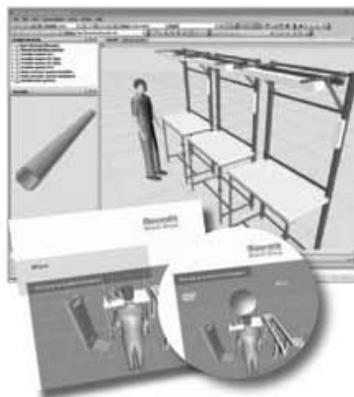
Section 1: Introduction

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Bosch Rexroth AG 5

Tubular Framing System



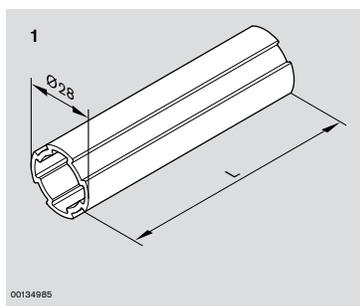
Use the *MTpro* software to create optimum designs in 2-D or 3-D and perfectly forecast your material requirements with the parts list generator.

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

Tubular Framing System

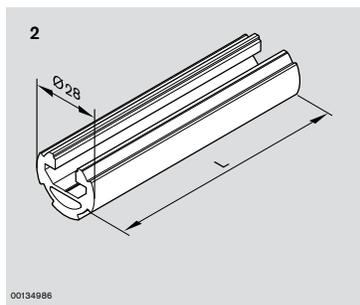
EcoShape: D28L round tube and accessories



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	

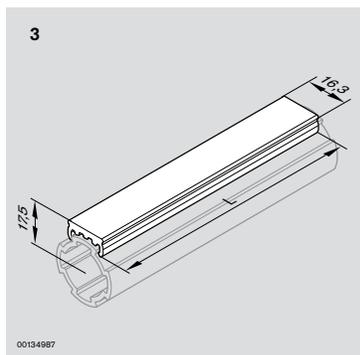
A	=	1.8 cm ²
I _x	=	1.33 cm ⁴
I _y	=	1.33 cm ⁴
W _x	=	0.95 cm ³
W _y	=	0.95 cm ³
m	=	0.48 kg/m



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	

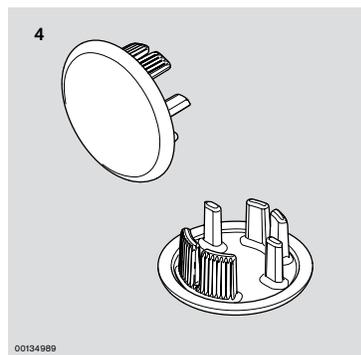
A	=	2.63 cm ²
I _x	=	1.17 cm ⁴
I _y	=	1.97 cm ⁴
W _x	=	0.84 cm ³
W _y	=	1.41 cm ³
m	=	0.71 kg/m



Slide rail

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

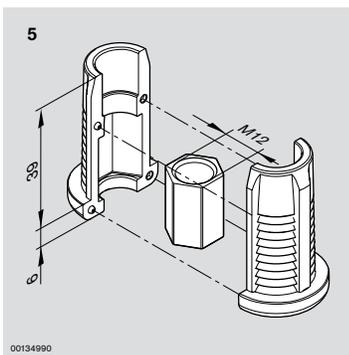
Material: PVC, gray



Cap

No.
20
3 842 541 195

Material: PA 66, black



D28L threaded sleeve

No.
20
3 842 541 185

Material: PA 66, black

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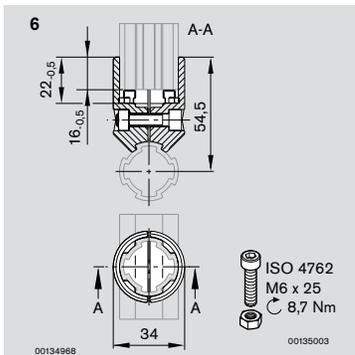
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Bosch Rexroth AG 7

Tubular Framing System

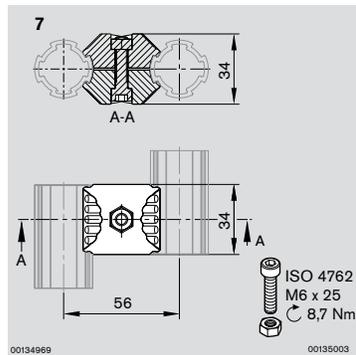
EcoShape: round tube connector



90° connector

No.	No.
20	3 842 541 173

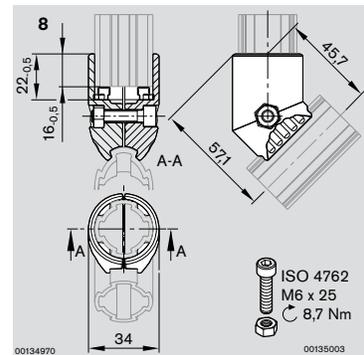
Incl. mounting material
Material: diecast zinc



Parallel connector

No.	No.
20	3 842 541 183

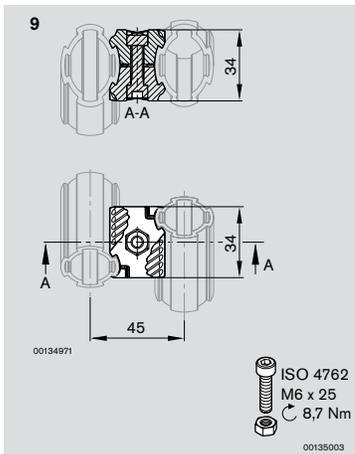
Incl. mounting material
Material: diecast zinc



45° connector

No.	No.
20	3 842 541 175

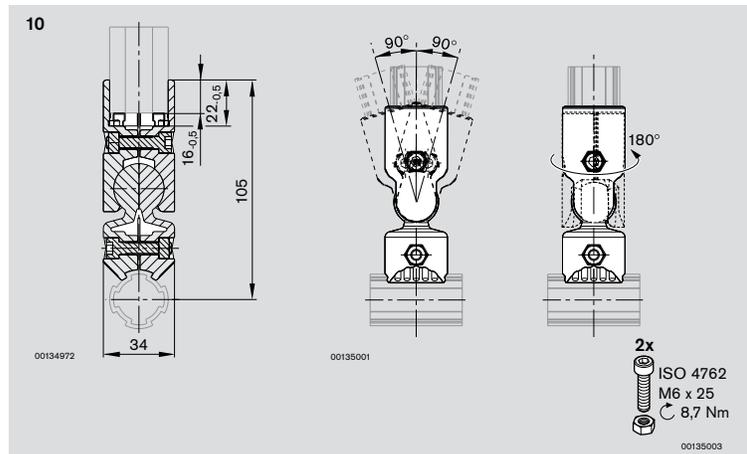
Incl. mounting material
Material: diecast zinc



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

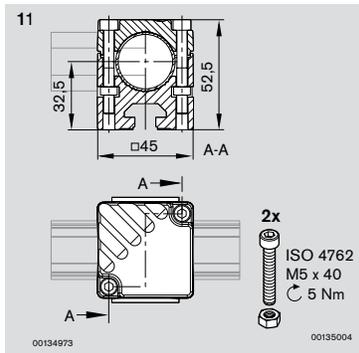
Incl. mounting material
Material: diecast zinc

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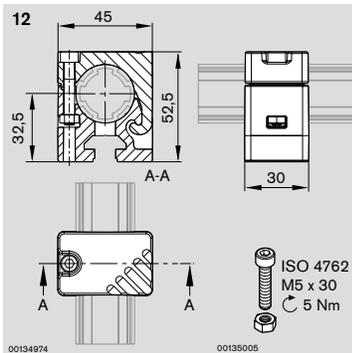
8 Bosch Rexroth AG EcoShape 1.1 | 3 842 541 818 (excerpt) (2010.02)

Tubular Framing System

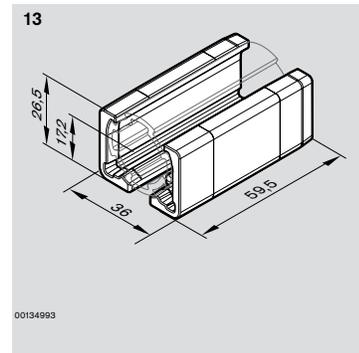
EcoShape: round tube adapter



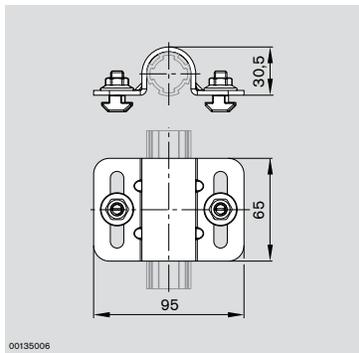
N10, 45 adapter	
20	No. 3 842 541 187
Incl. mounting material Material: diecast aluminum	



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



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



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

Section 1: Introduction

1

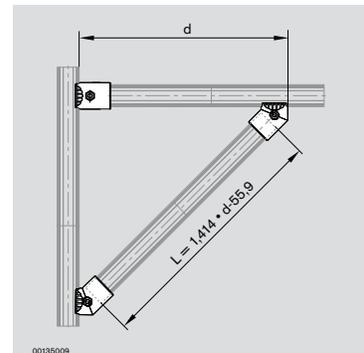
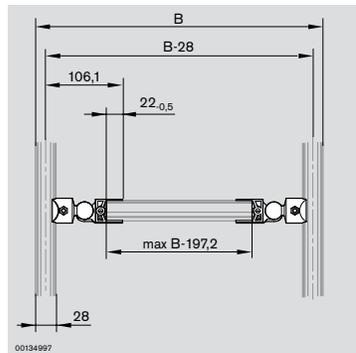
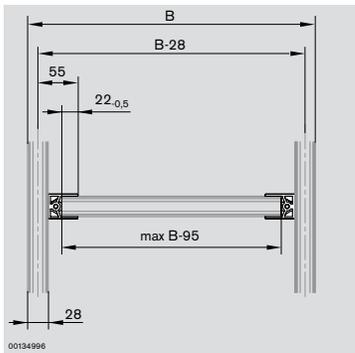
3842541 818 (excerpt) (2010.02) | **EcoShape 1.1**

Bosch Rexroth AG 9

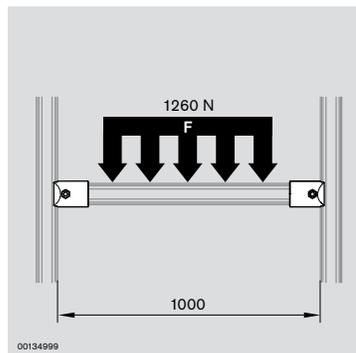
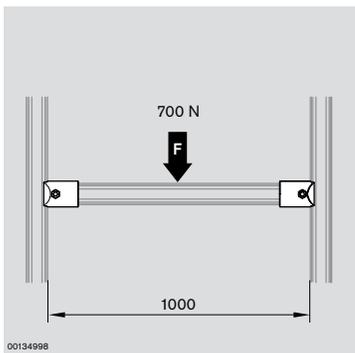
Tubular Framing System

Technical data

Length calculation



Bearing loads and surface loads



Section 1: Introduction

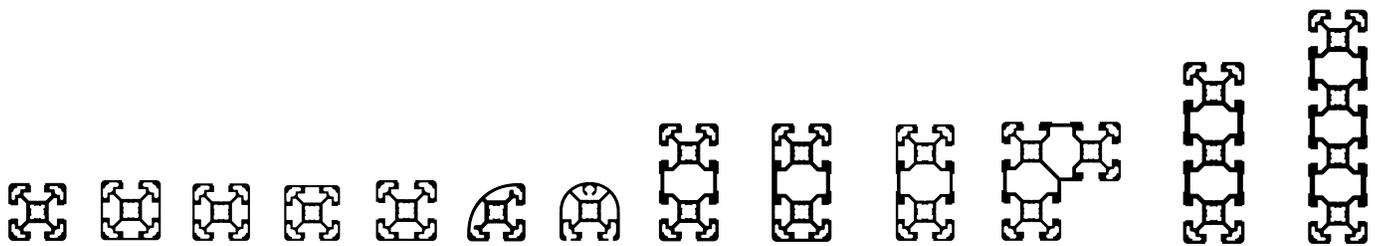
Section 2 Profiles



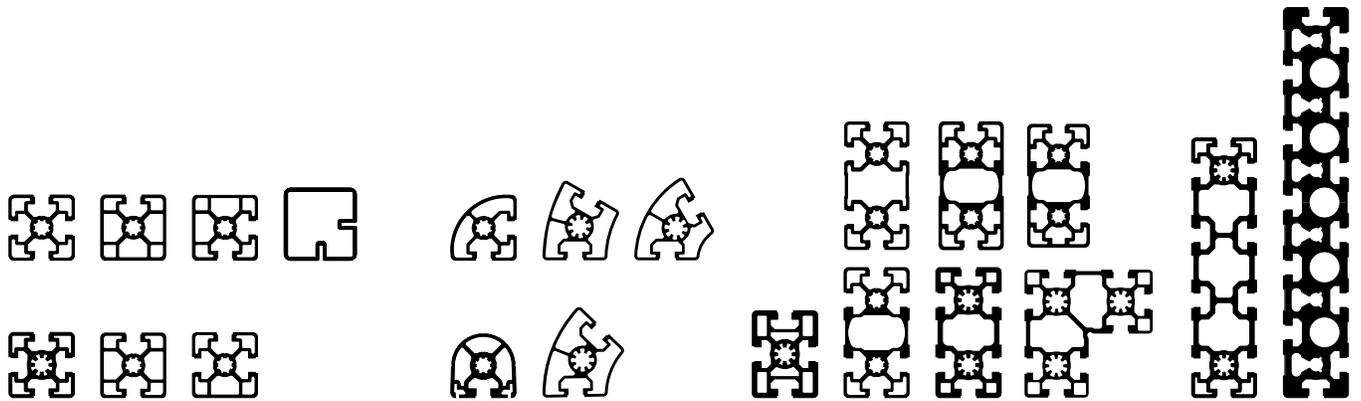
20-Series Profiles: 2-10 to 2-13



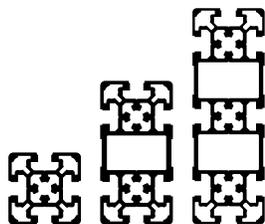
30-Series Profiles: 2-14 to 2-19



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



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



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

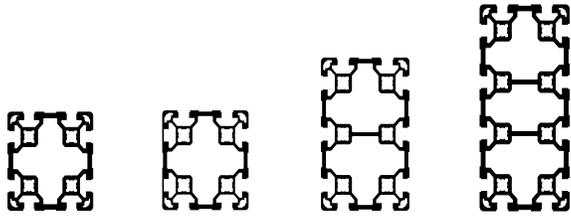


60-Series Profiles: 2-43 to 2-45

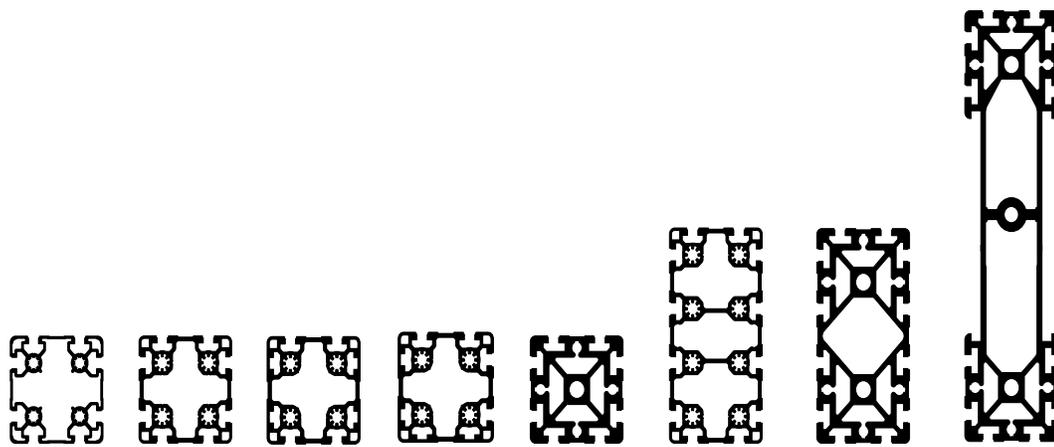
Section 1: Introduction

Section 2 Profiles

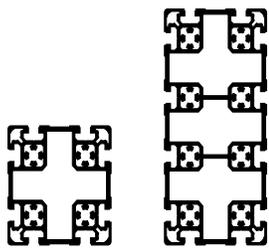
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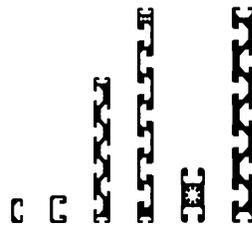
80-Series Profiles: 2-46 to 2-48



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



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

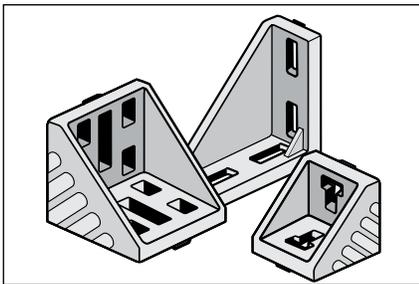


Specialty Profiles: 2-57 to 2-61

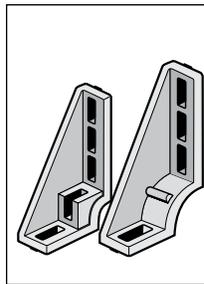
Section 1: Introduction

Section 3 Profile Connectors

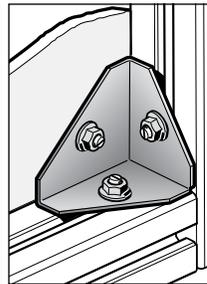
90° Right Angle Connectors



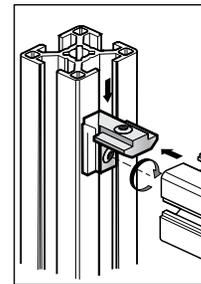
Die-Cast Gussets
 20-Series 3-3 • 30-Series 3-4
 40-Series 3-5 • 45-Series 3-6
 50-Series 3-7 • 60-Series 3-8
 80-Series 3-8 • 90-Series 3-9
 100-Series 3-9



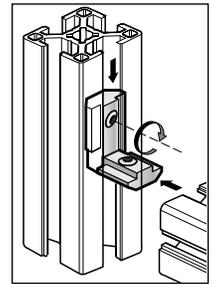
Die-Cast Foundation Brackets
 3-10 & 3-11



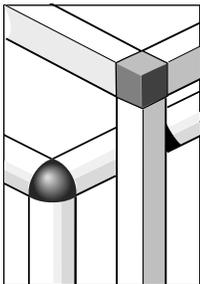
42x60 Sheet Metal Gusset
 3-12



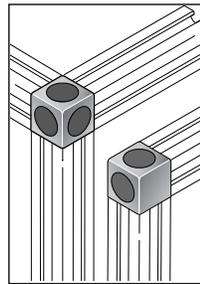
Inside-to-Outside Gussets
 3-12



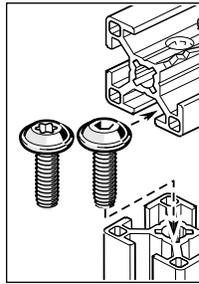
Inside-to-Inside Gussets
 3-13



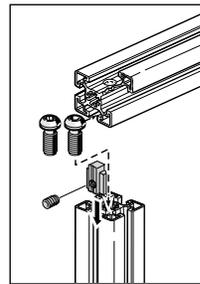
Corner Brackets
 3-14



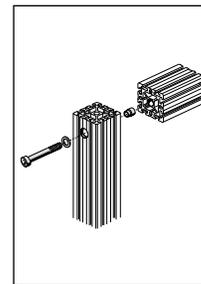
Corner Cube Kits
 3-15



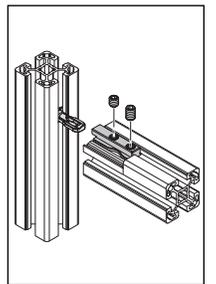
S6, S8, & S12 Self-Tapping Connection Screws
 3-16



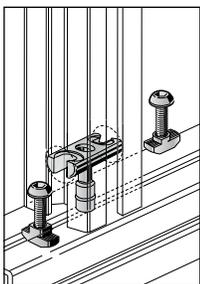
M12 Connection Screws and Anti-Rotation T-Blocks
 3-17



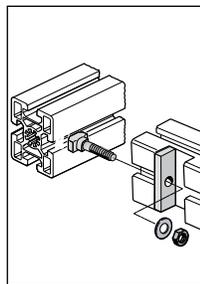
M16 Connection Screw
 3-18



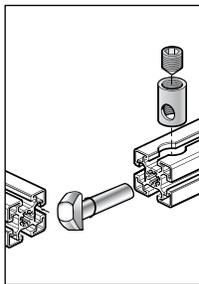
Tension Connectors
 3-18



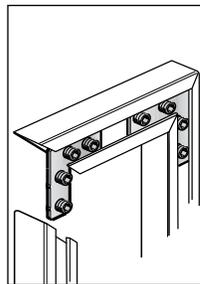
Bolt Connector Kits
 3-19 & 3-20



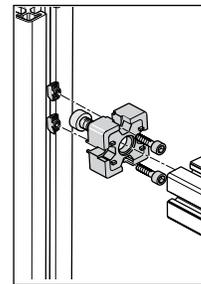
Cross Connector Kit
 3-21



Quick Connectors/Rigid
 3-21



Mitered Corner Connectors
 3-22



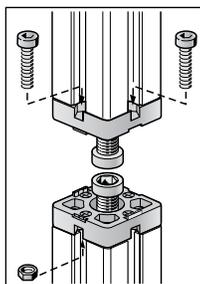
T-Connector Kits
 3-23

Section 1: Introduction

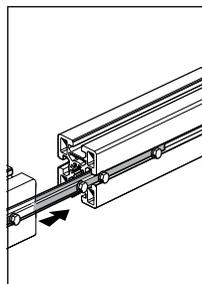
Section 3 Profile Connectors

1

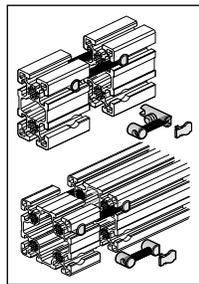
180° Straight-Line Connectors



End Connector Kits
3-24

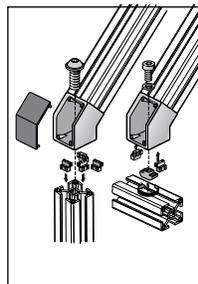


8mm & 10mm Connection Link Kits
3-25



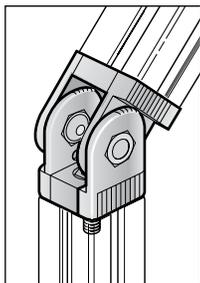
End-to-End Bolt Connector Kits
3-25

45° Angle Connectors

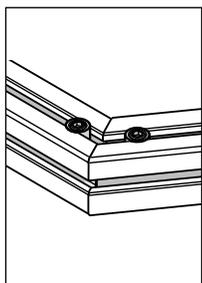


45° Angle Connector Kits – 30mm & 40mm
3-26 & 3-27

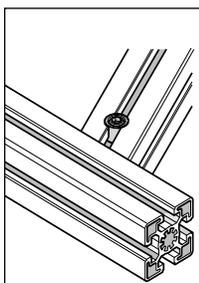
Multi-Angle Connectors



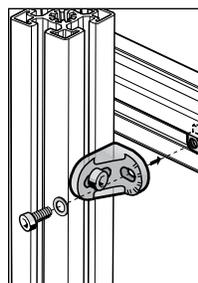
Multi-Angle Connector Kits
3-28 & 3-29



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

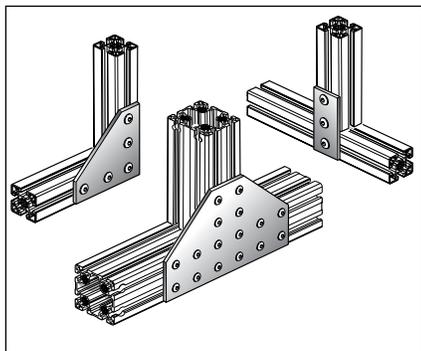


End-to-Side Variable Angle Bolt Connector
3-31



Adjustable Angle Gusset Kits
3-32

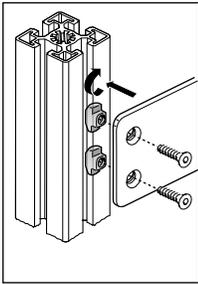
Joining Plates



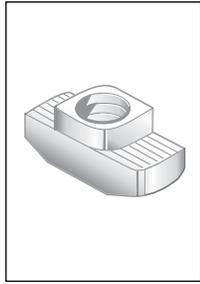
Corner, T-Junction and Rectangular
3-33 to 3-35

Section 1: Introduction

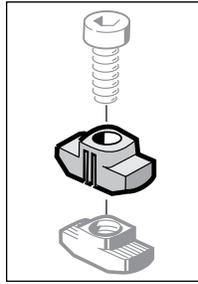
Section 4 Fasteners



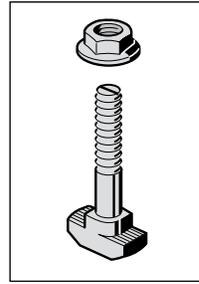
T-Nuts
4-1



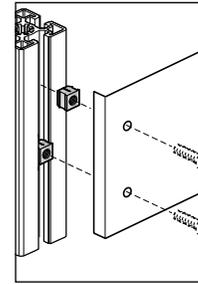
Stainless Steel
T-Nut
4-2



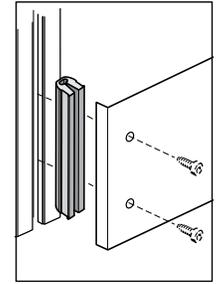
Isolation Cap for
8mm T-Nut
4-2



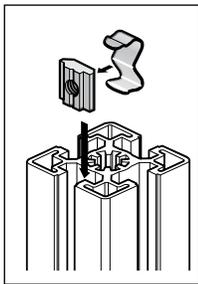
T-Bolt
Fastening Kits
4-3



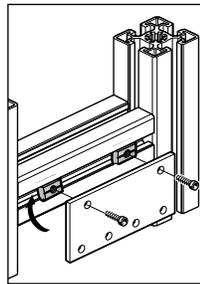
Plastic T-Nut
4-4



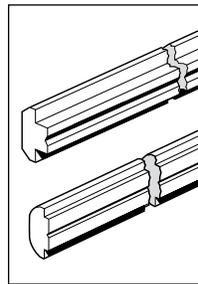
8mm & 10mm
Mounting Strips
4-4



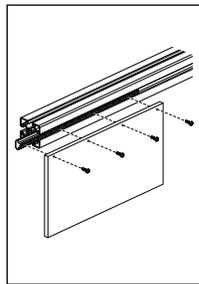
T-Blocks &
Springs
4-5



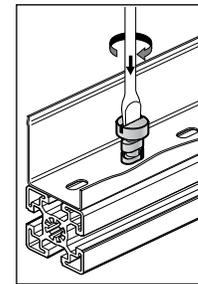
Swivel-In T-Blocks &
Swivel-In T-Blocks
with Springs
4-6



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

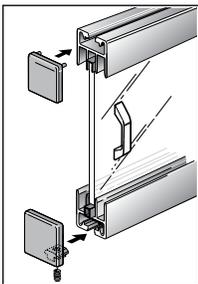


Anchor Strips
4-8

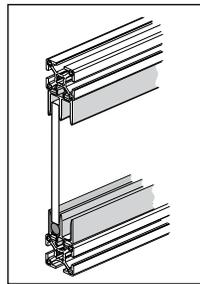


Quick-Lock Sheet
Metal Fasteners
4-8

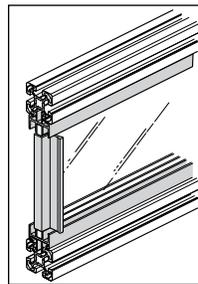
Section 5 Doors and Door Components



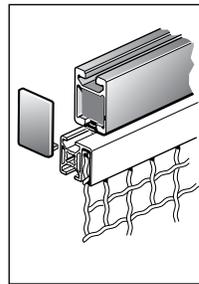
45x45SD
Aluminum Sliding
Guide Profile and
Accessories
5-3



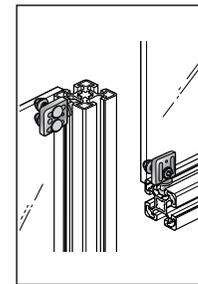
Snap-In Sliding
Door Guides
5-4



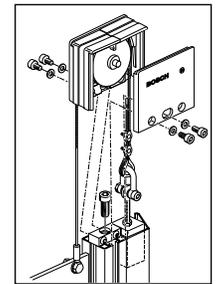
Aluminum Sliding
Door Guide and
Stiffener Handle
5-5



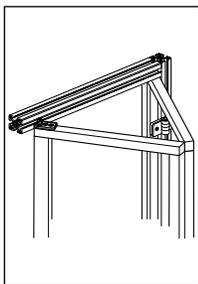
Roller Channel
Profile C30x45
5-6



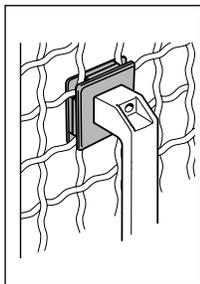
Panel Slider
5-7



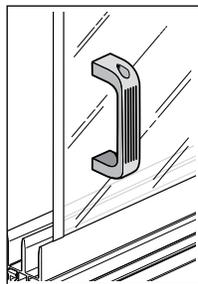
Counterbalance
5-7



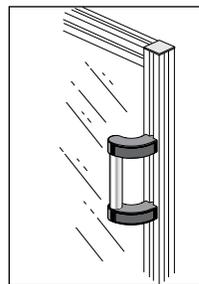
Folding Door Kit
5-8



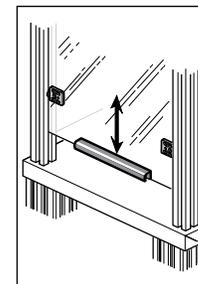
Handle
Mounting Plate
5-8



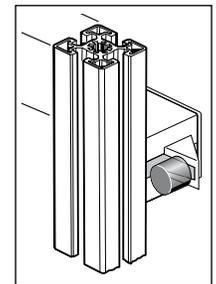
Strap Handles
5-9



Safety Handle
5-9



Bar Handle
5-10

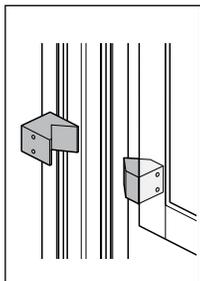


Door Stops
5-10

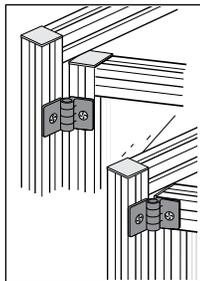
Section 1: Introduction

Section 5 Doors and Door Components

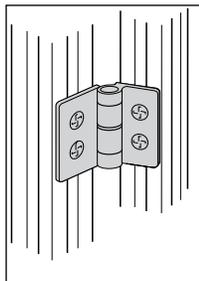
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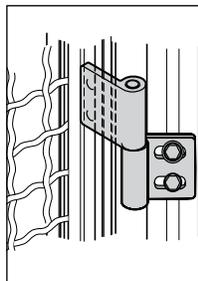
Sliding Door Stop
5-10



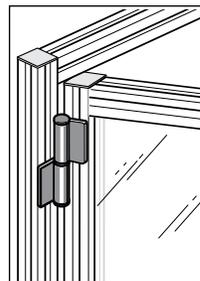
Heavy-Duty Hinges
5-11



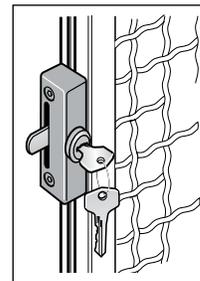
Clean Room Hinges
5-12



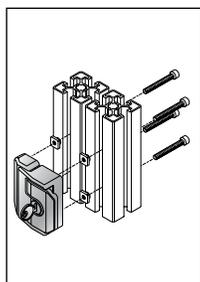
Adjustable Hinge
5-12



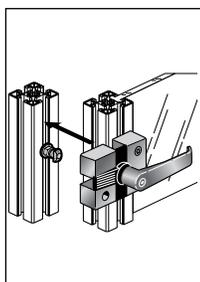
Lift-Off Hinges
5-13



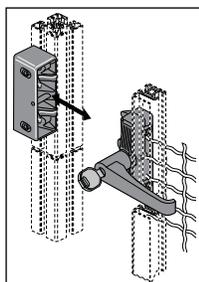
Standard Lock
5-14



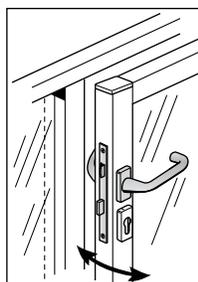
Compact Lock
5-14



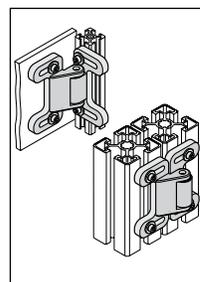
Locks for Swinging
or Sliding Doors
5-15



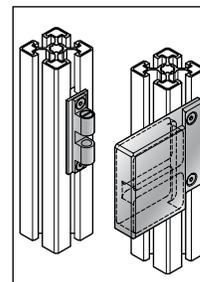
Locks for
Sliding Doors
5-16



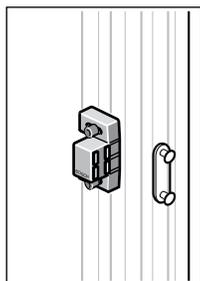
Locks for Heavy
Swinging Doors
5-17



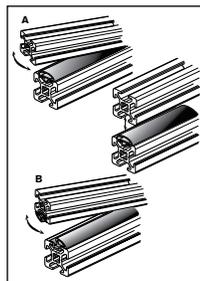
Ball Detent Latch
5-18



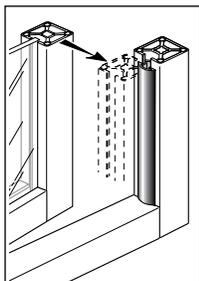
Universal Ball
Detent Latch
5-18



Magnetic Latches
5-19



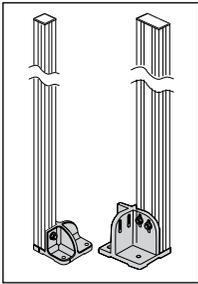
6mm Door Seals
5-20



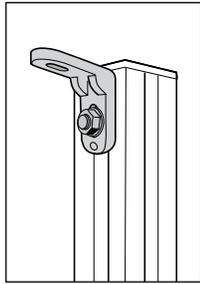
8mm and 10mm
Door Seals
5-20

Section 1: Introduction

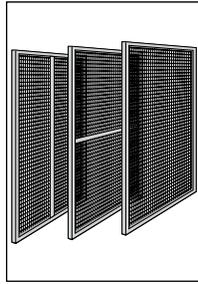
Section 6 EcoSafe™ Guarding and Machine/Safety Enclosures



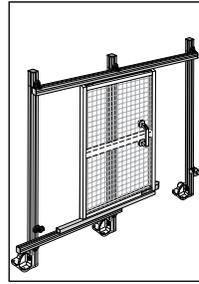
Support Posts
6-4



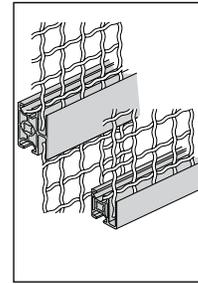
Panel Mounting
Bracket Kits
6-5



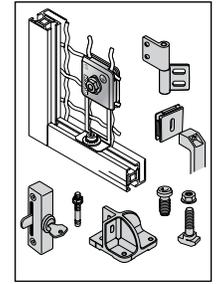
Protective Frames
6-6 & 6-7



EcoSafe Door
Components
6-8 to 6-10

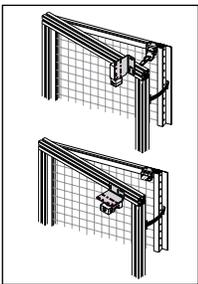


EcoSafe Frame
Profiles
6-11 & 6-12

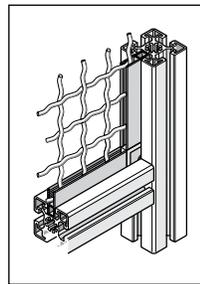


Wire Mesh
Grounding Terminal
& Installation Acces-
sories
6-13 & 6-14

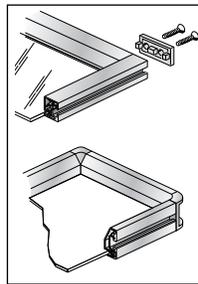
Other Guarding Components



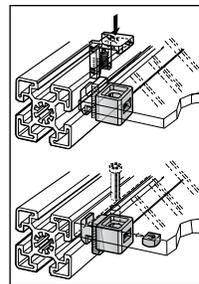
Safety Switch
Mounting Bracket
Kits
6-16



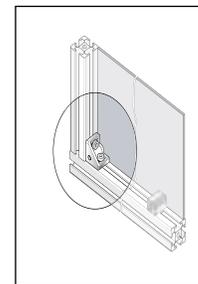
Wire Mesh Frame
Profile and Corner
Connectors
6-17



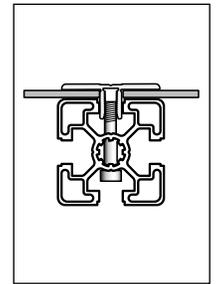
Frame Profiles
22.5x30F &
22.5x45F
6-18 & 6-19



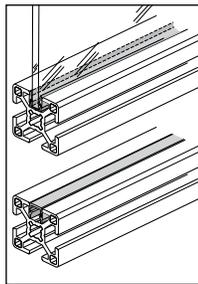
Variofix Panel
Mounting
Fasteners
6-20



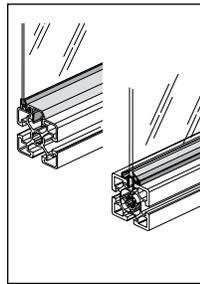
Panel Mount Gus-
sets
6-21



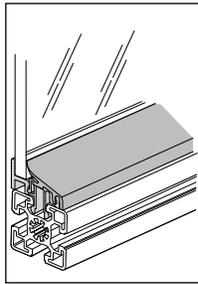
Heavy Duty Clamp
Profiles
6-23



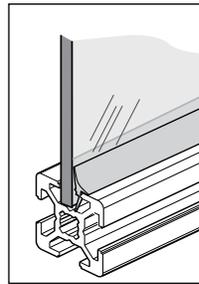
Panel Support
Inserts
6-24



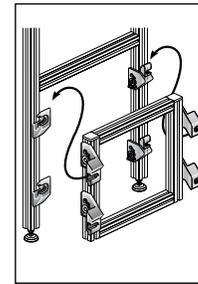
Removable Panel
Support Inserts
6-25



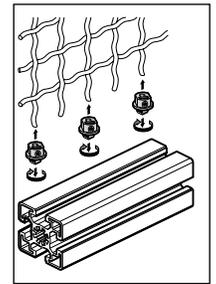
Flush-Mount
Removable Panel
Support Inserts
6-26



Glazing Strip
6-27



Removable Frame
Brackets
6-28

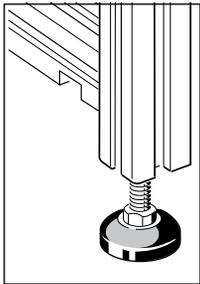


Clamp Bushing
6-29

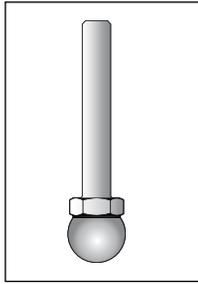
Section 1: Introduction

Section 7 Floor to Frame Elements

1



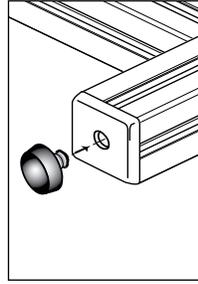
Leveling Feet and Accessories
7-1 & 7-2



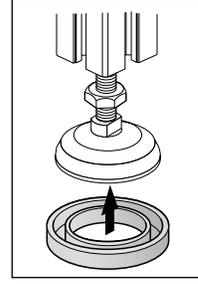
Steel Spindles
7-3



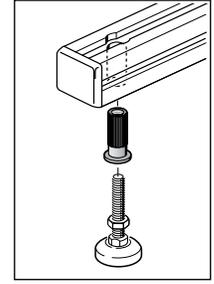
Base Plates with Screw Holes
7-4



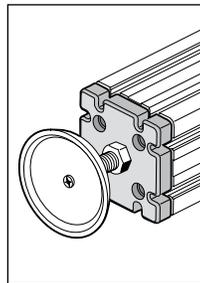
Floor Guard Foot
7-5



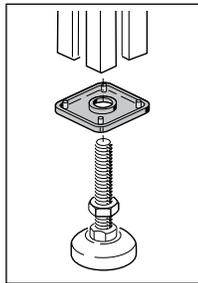
Dampening Pads
7-5



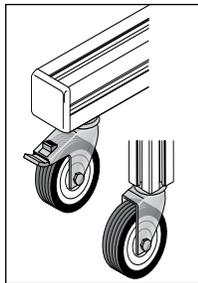
Threaded Sleeve for Leveling Feet
7-6



Leveling Foot Plates
7-6



End Caps with Hole
7-7



Heavy-Duty Casters
7-8

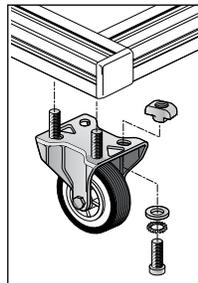
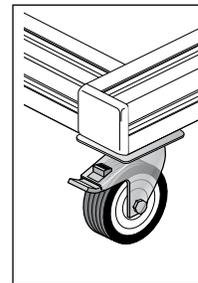
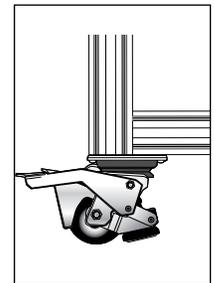


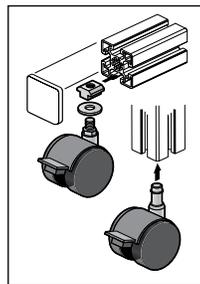
Plate-Mounted Casters
7-9



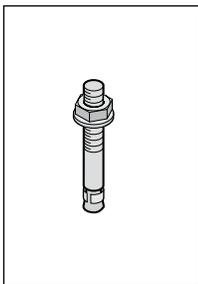
Heavy Duty Casters with Mounting Plate
7-10



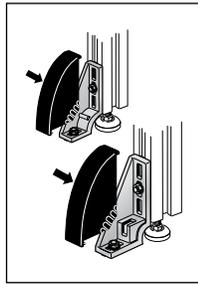
Caster Lifting Wheel
7-11



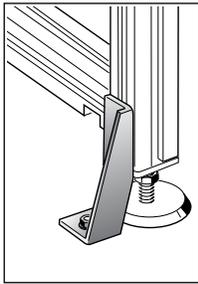
Double-Wheel Casters
7-12



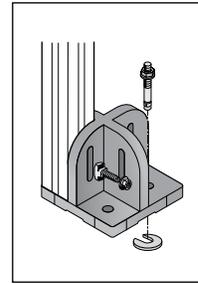
Anchor Bolts
7-13



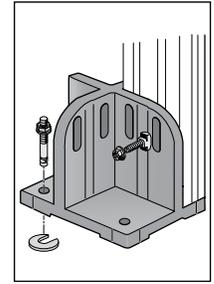
Die-Cast Foundation Brackets
7-13



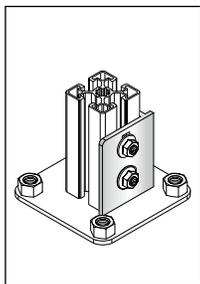
Foundation Brackets
7-14



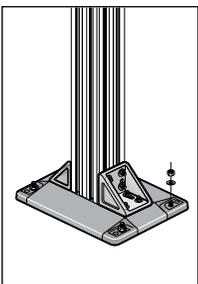
Footplate 120x120x110
7-15



Footplate 150x150x120
7-16



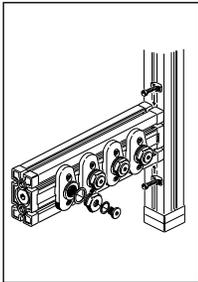
Steel Base Plates
7-17



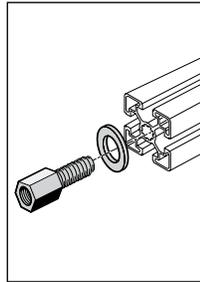
Base Plates
7-18

Section 1: Introduction

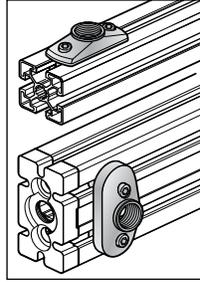
Section 8 Air Supply Elements



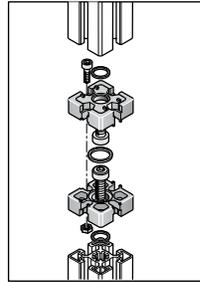
Pre-Assembled Air Bar
8-1



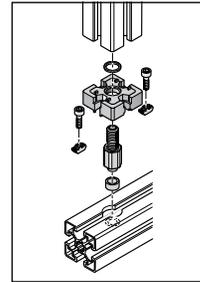
Pneumatic Fitting M12-to-G
8-1



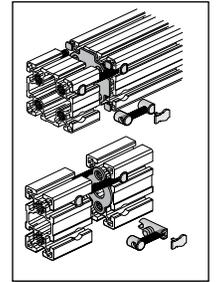
G & G^{3/8} Pneumatic Port Kits
8-2



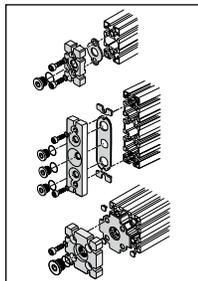
45mm Pneumatic End-to-End Kit
8-3



45mm Pneumatic T-Junction Kit
8-3

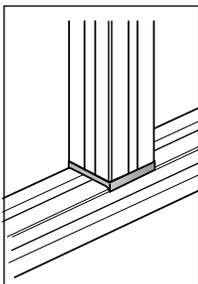


Air Gaskets
8-4

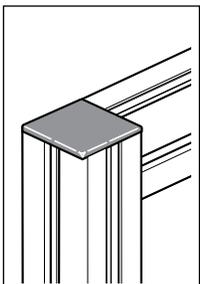


Multi-Port End Seal Kits
8-5

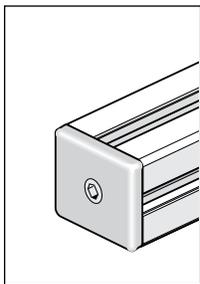
Section 9 Caps and Finishing Elements



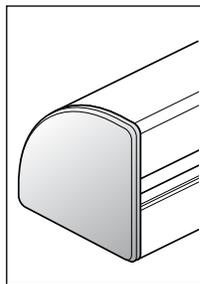
Radius Compensators
9-1



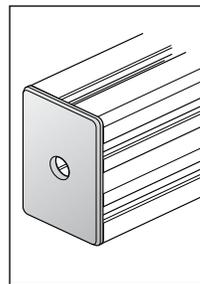
Square & Rectangular End Caps
9-2 & 9-3



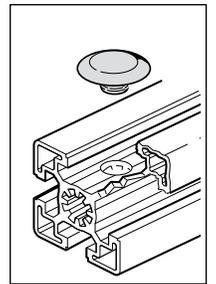
Heavy-Duty End Caps
9-3



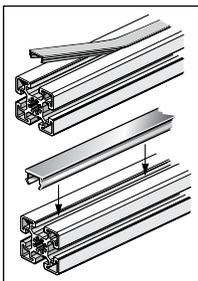
Radius & Specialty End Caps
9-4



End Caps with Holes
9-5



Access Hole Covers
9-5

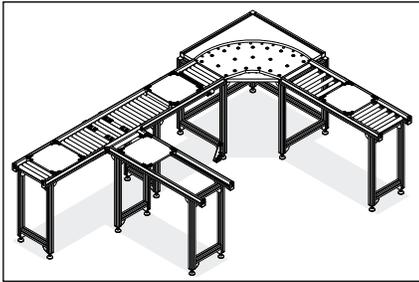


T-Slot Covers
9-6

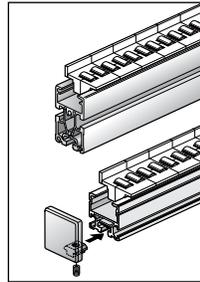
Section 1: Introduction

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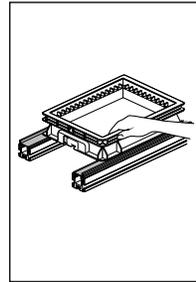
Section 10 EcoFlow™ Conveyor and Transport Components



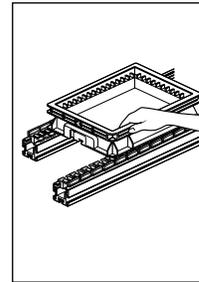
EcoFlow
Conveyor Components
10-2 to 10-12



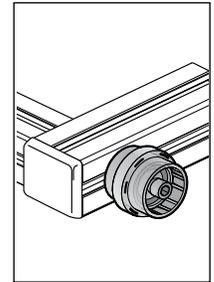
Roller Profiles
45x30RP,
45x45RP,
45x50RP, &
45x75SP2/B
10-13



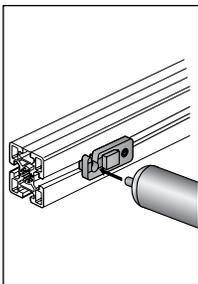
FP2/B Guide
Profile
10-14



Roller Elements
10-15



Support Rollers
10-16



Track Roller
Mounting Blocks
10-17

Section 11 Ergonomic Workplace Equipment

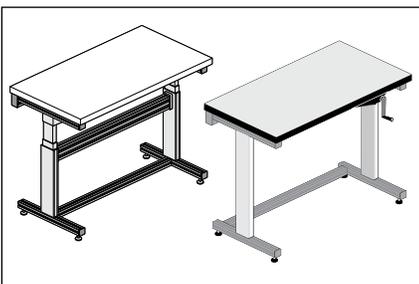
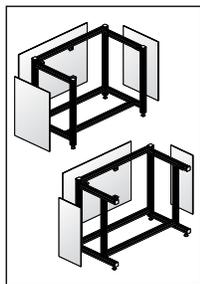
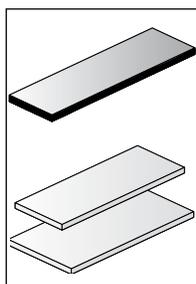


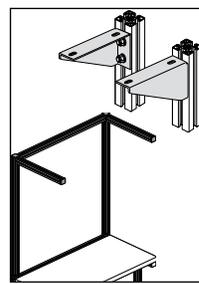
Table Frames and Adjustable Height
Manually Operated Components
11-4 & 11-6



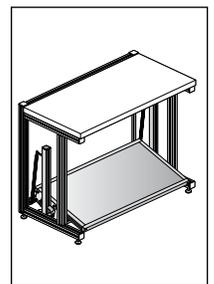
Side Panel Kits
11-6



Tabletops
11-7

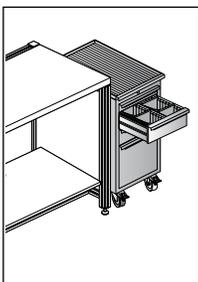


Extension Struts,
Posts, Uprights &
Shelf Brackets
11-8 & 11-9

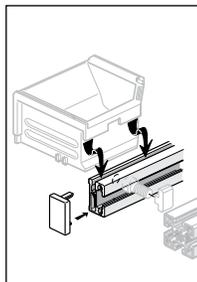


Footrests
11-10

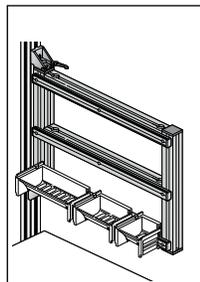
Storage and Grab Containers



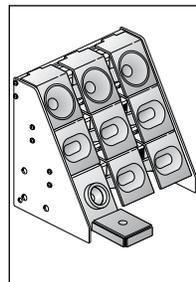
Drawer Cabinets
11-11



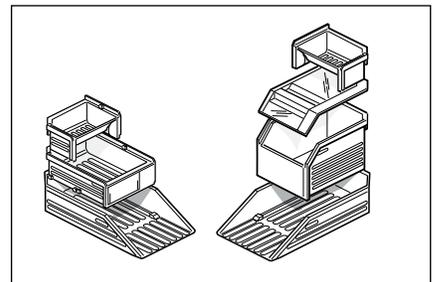
Hanging Profile
11-12



Support Frame
11-12



Tool/Bin Rack
& Tool Holders
11-13

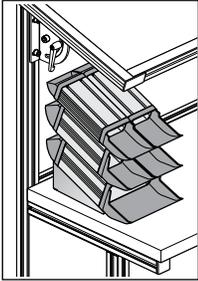


Grab Containers, Trays, Ledges,
& Accessories
11-14 to 11-16

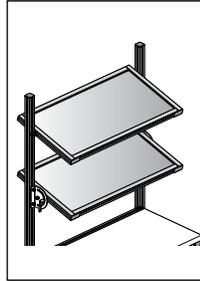
Section 1: Introduction

Section 11 Ergonomic Workplace Equipment

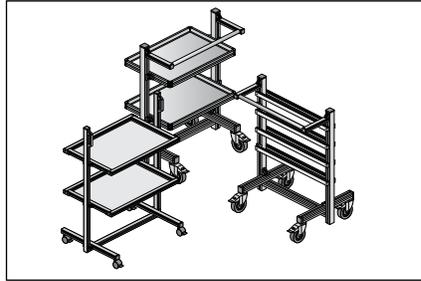
Tool and Material Shuttles



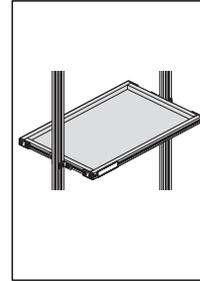
VarioGrab Containers
11-17



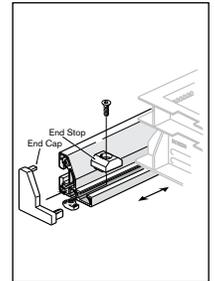
Adjustable Shelves
11-18



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

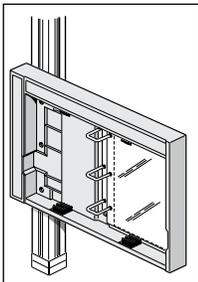


Lettering Clips
11-23

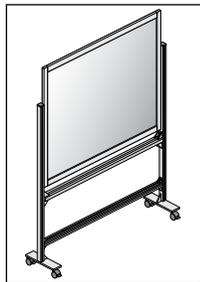


45x45T Tray Profile
11-23

Information Presentation

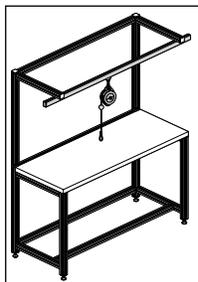


Information Board
11-24

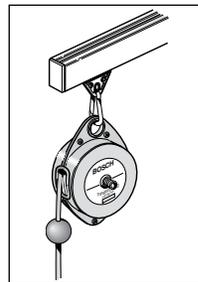


Wall Boards & Bulletin Boards
11-24 & 11-25

Tool Management

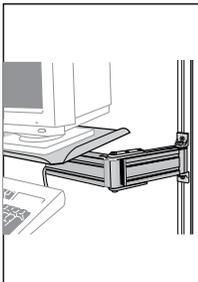


Tool Rail Kits & Components
11-26



Tool Balancers
11-27

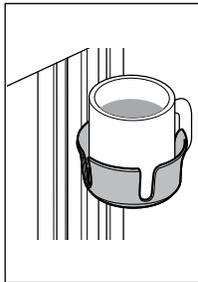
Comfort and Convenience Accessories



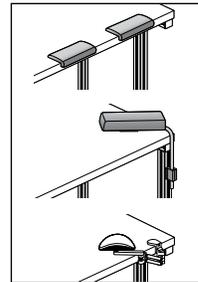
Monitor Arm Kit
11-28



Flat Panel Monitor Arm Bracket
11-28



Cup, Bottle & Cloth Holders
11-29



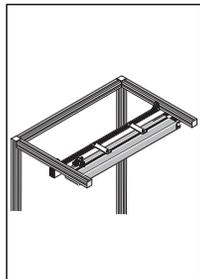
Armrests
11-30

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Section 11 Ergonomic Workplace Equipment

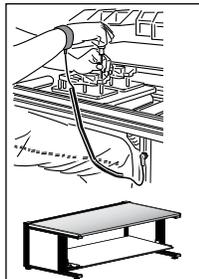
Electrical and ESD Components



Overhead Lamp with Electronic Ballast
11-31

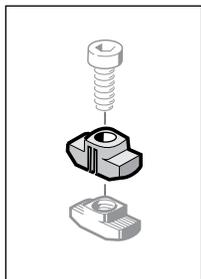


Power Strips
11-32

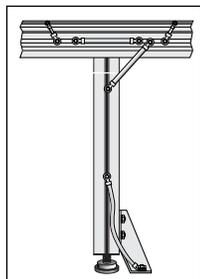


ESD Grounding Strap & Protective Mat
11-33

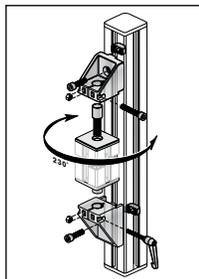
Other Workstation Components



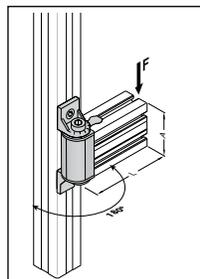
Isolation Cap for 8mm T-Nuts
11-34



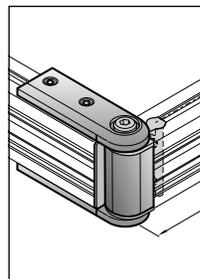
ESD Grounding Strap
11-34



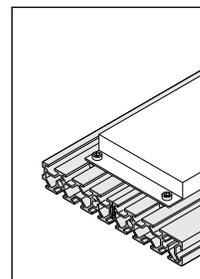
Swivel Hanger Kit
11-35



Pivot Joint Kit
11-36

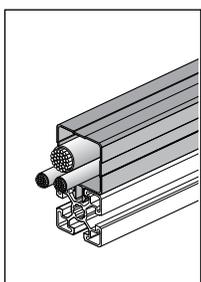


Swivel Arm Joint Kits
11-37

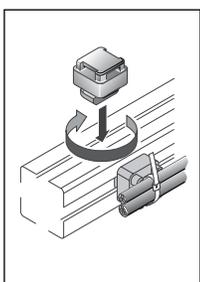


Fixture Plate Components
11-38

Section 12 Accessories



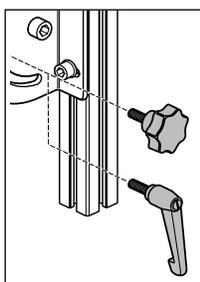
Cable Conduit & End Cap
12-1



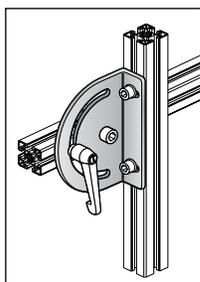
Cable Carrier
12-2



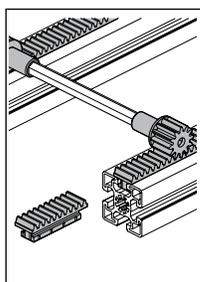
R-A-M® Mount
12-2



Star Knobs & Locking Levers
12-3



Swivel Bracket Kit
12-4



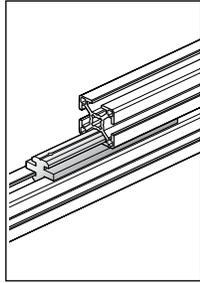
Rack & Pinion
12-5

Section 1: Introduction

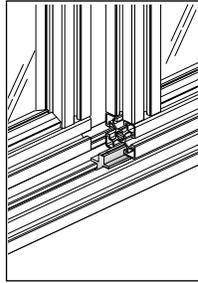
Section 13 EcoSlides™ Linear Sliding Carriages and Bearings



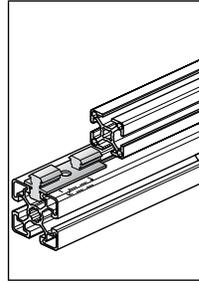
Linear Motion
Selection Guide
13-0



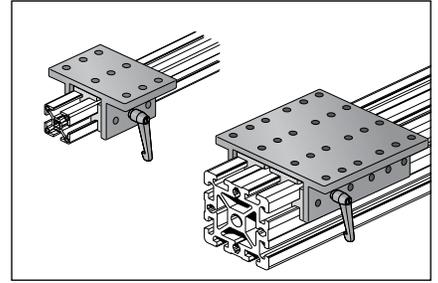
6mm & 8mm
Slide Bearings
13-2



10mm
Slide Bearings
13-3

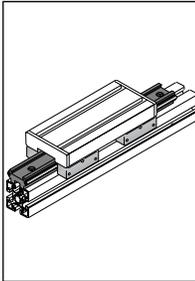


Profile Slider
13-4

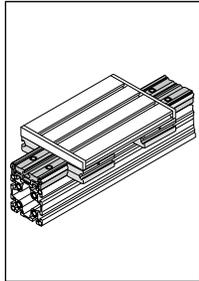


EcoSlides™
13-5 to 13-9

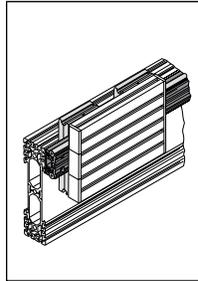
Section 14 Dynamic Linear Elements



LF6S & LF6C
14-4 to 14-11



LF12S & LF12C
14-12 to 14-19



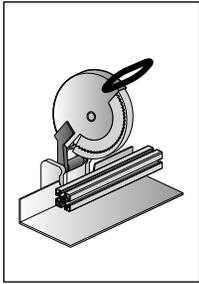
LF20S & LF20C
14-20 to 14-27

Section 1: Introduction

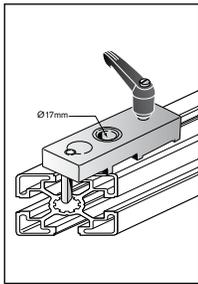
Section 15 Tools

1

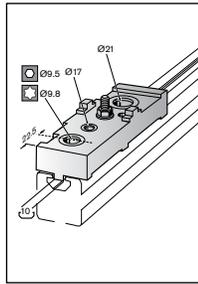
Drill Bits and Jigs



Working with Aluminum Profiles
15-1

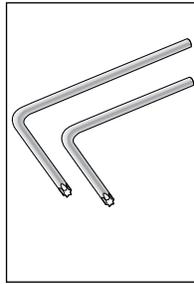


Miter Drilling Jigs
15-2



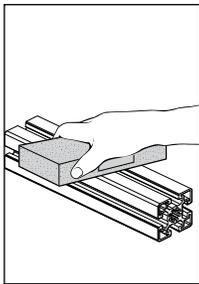
6mm, 8mm, & 10mm Drill & Boring Jigs
15-3 & 15-5

Wrenches

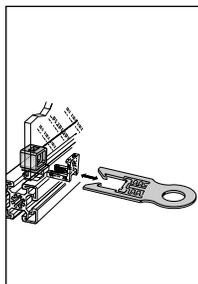


Torx Wrenches
15-6

Other Tools



Cleaning Block
15-7



VarioFix Puller
15-7

Section 16 Technical Specifications

Section 17 Part Number Index and Reference Charts