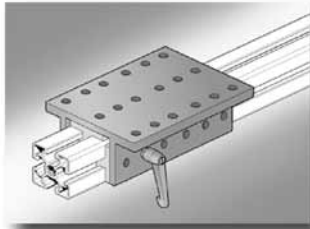
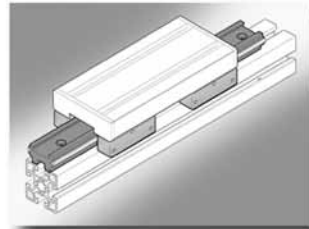


Rexroth Makes Linear Motion Easy

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:



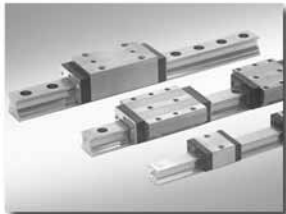
1 The EcoSlides™ in Section 13 offer a manually-powered, low-cost solution.



2 Dynamic Linear Elements, in Section 14 of this catalog, provide precise linear motion using standardized modular components.

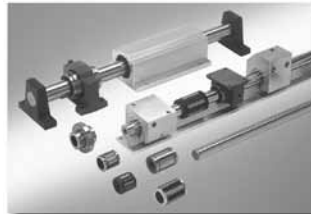


3 Rexroth's Linear Motion and Assembly Technologies offers a linear motion product for virtually any application. Whether you need speed, accurate repeatability, high payload capacity, or all of the above, Rexroth has linear motion products to fit your needs. Just call 800-438-5983 and ask to speak with one of our linear motion specialists, or request a copy of Linear Motion Resource CD.



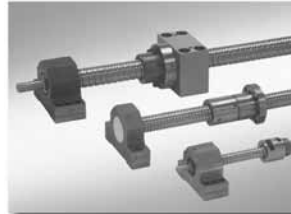
Profiled Rail Systems

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

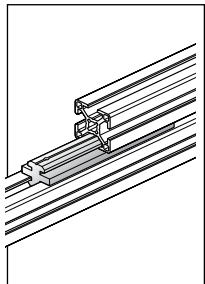
Design and assemble faster and more efficiently with linear modules. Instead of designing from several components, let Bosch Rexroth build a ready-made module or system to incorporate into your design. You will receive a system that is engineered for optimum performance, reliability, and easy assembly into your machine.

Section 13: EcoSlide™ Linear Sliding Carriages and Bearings

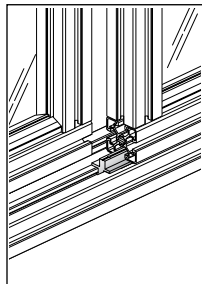
Overview

Rexroth EcoSlides™, along with slider bearings and profile sliders, provide an inexpensive way to create precise linear motion.

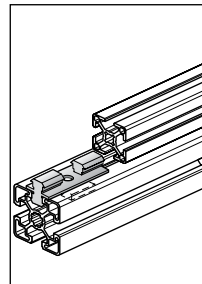
Ideal for applications such as sliding doors and manual guides, Rexroth linear sliding elements and bearings provide durability and ease of use, without high cost.



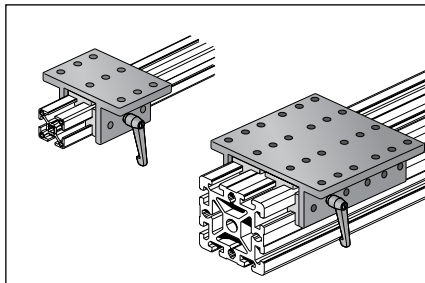
6mm & 8mm
Slide Bearings
13-2



10mm
Slide Bearings
13-3



Profile Slider
13-4

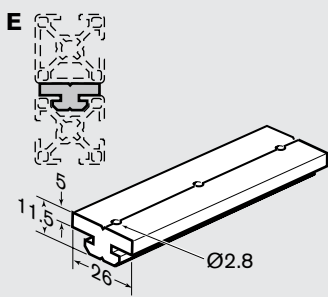
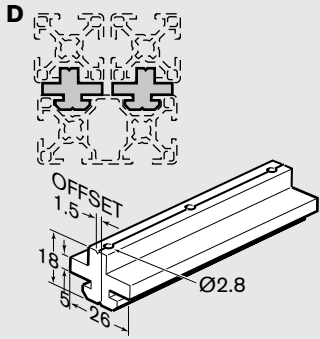
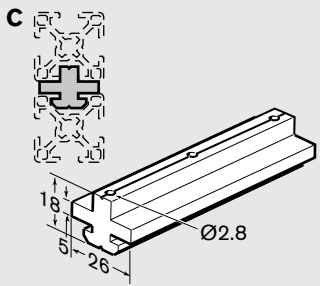
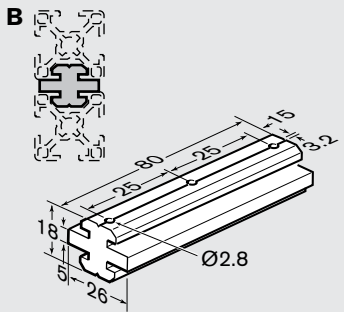
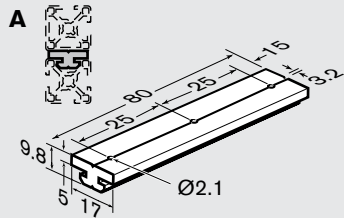


EcoSlides™
13-5 to 13-9

Section 13: EcoSlide™ Linear Sliding Carriages and Bearings

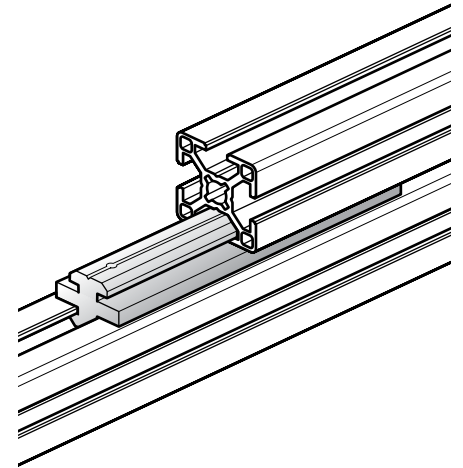
Profile Sliders and Bearings

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

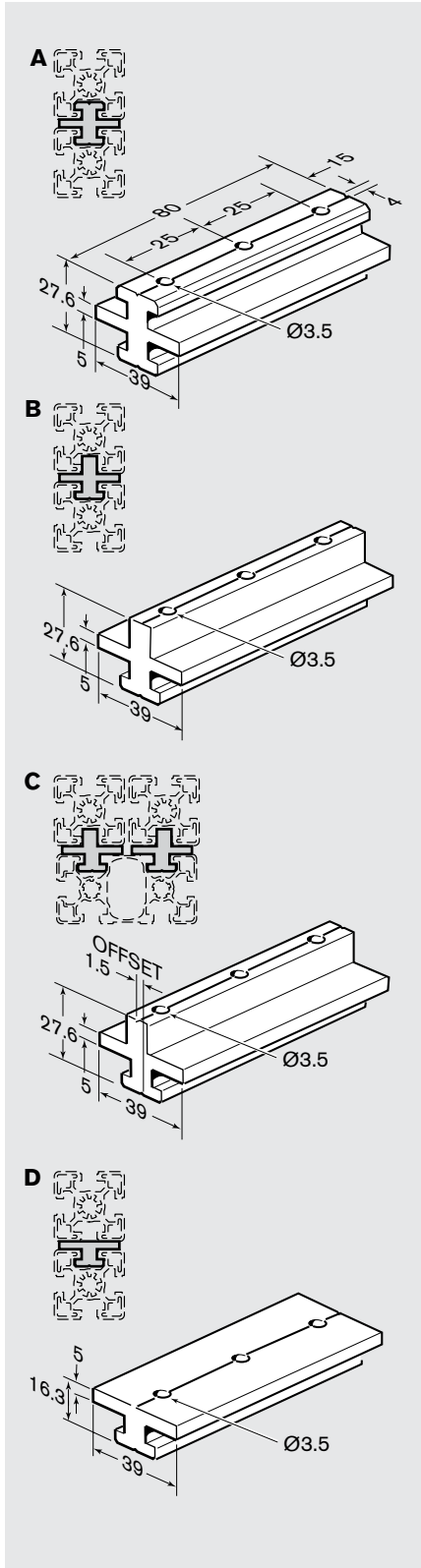
Assembly Note

$$\frac{P_v \times A}{S} = \text{Expected Life} / \text{Load for Delrin bearings}$$

- P_v = 3000 (Delrin)
- A = Surface area of bearing in mm²
- S = Speed in millimeters per minute

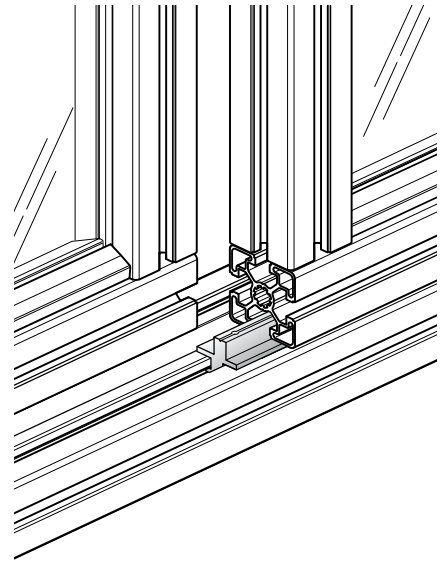
Section 13: EcoSlide™ Linear Sliding Carriages and Bearings

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

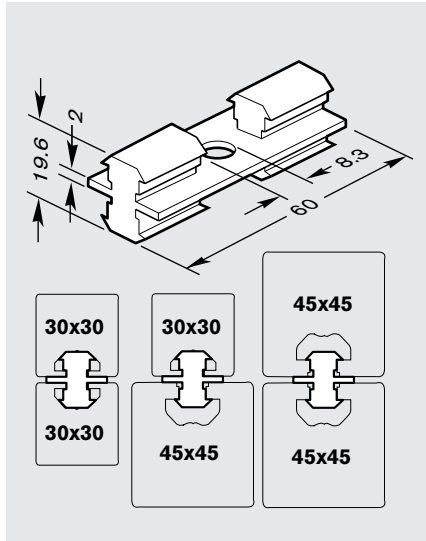
$$\frac{P_V \times A}{S} = \text{Expected Life} / \text{Load for Delrin bearings}$$

- $P_V = 3000$ (Delrin)
- $A = \text{Surface area of bearing in mm}^2$
- $S = \text{Speed in millimeters per minute}$

Section 13: EcoSlide™ Linear Sliding Carriages and Bearings

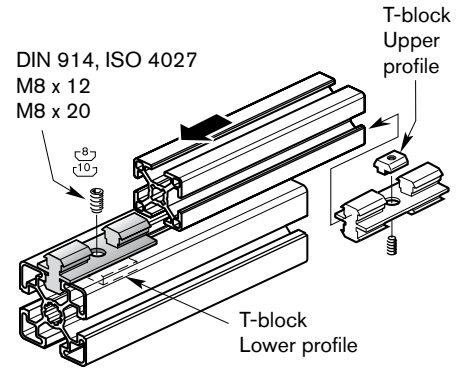
Profile Sliders and Bearings

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

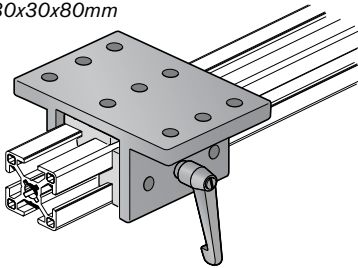
Machining Required:

- 4mm tap in Delrin® for M4x12 fastening screws
- 9mm hole and milled slot per specifications on individual bearing pages for mounting optional locking handle

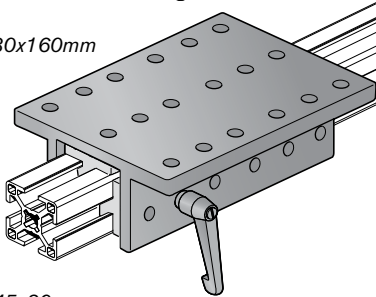
Material:

- 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

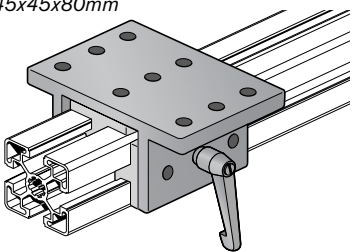
30x30x80mm



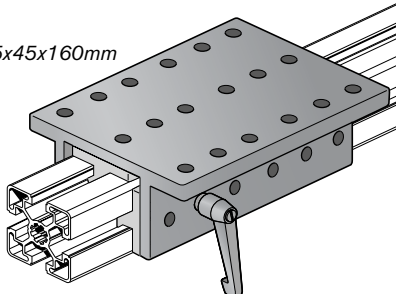
30x30x160mm



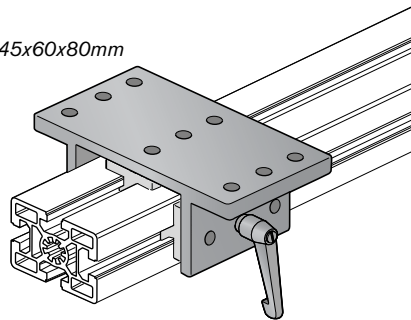
45x45x80mm



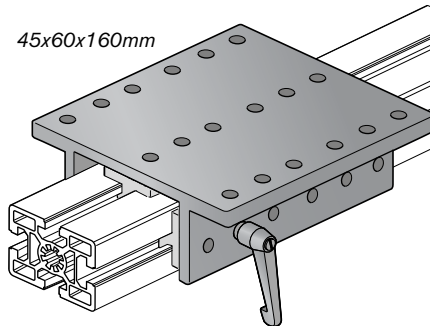
45x45x160mm



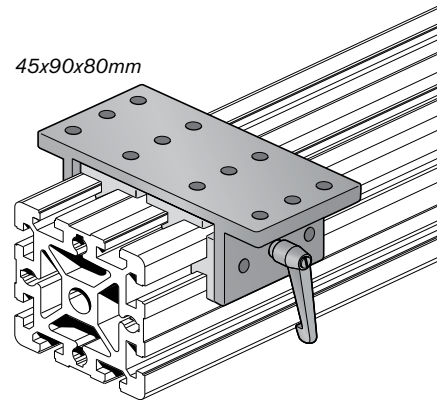
45x60x80mm



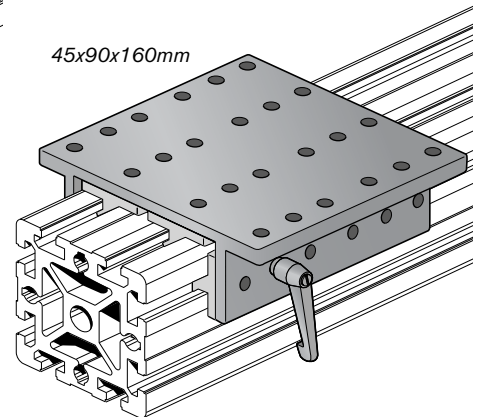
45x60x160mm



45x90x80mm



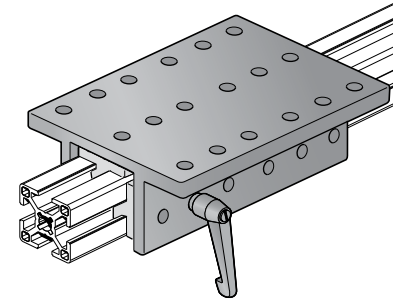
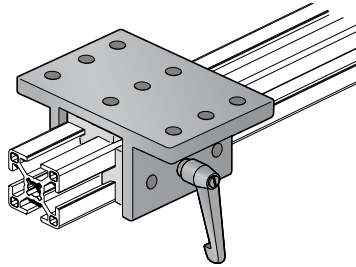
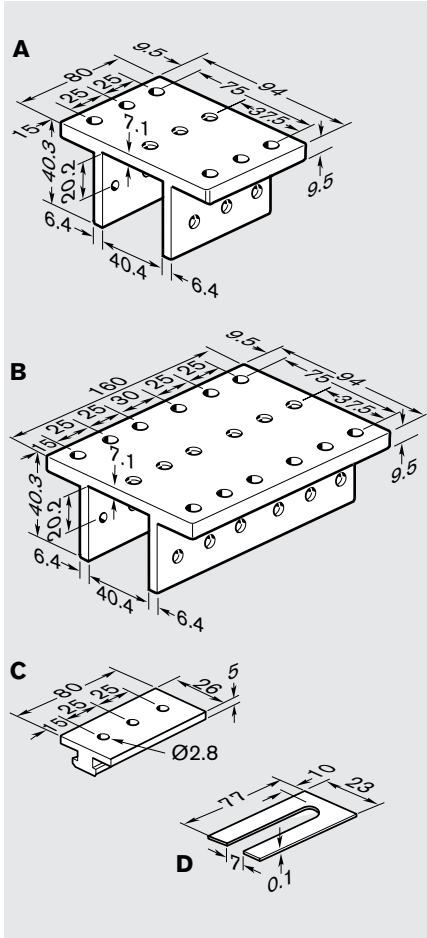
45x90x160mm



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

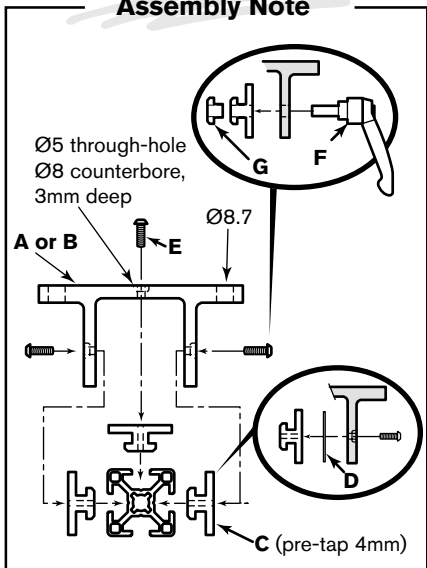
Components for 30x30x80 EcoSlide	Quantity Required
A 30x30x80 EcoSlide carriage	1
C 8mm EcoSlide bearing	3
D 8mm bearing shim	as needed
E M4x12 ISO 7380 BHCS	9
F Locking handle, 20mm	optional
G 8mm M8 T-block	optional

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

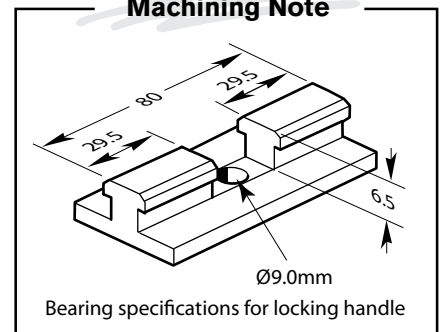
Description	Lot Size*	Part Number
A 30x30x80 EcoSlide carriage	1	8 981 535 476
B 30x30x160 EcoSlide carriage	1	8 981 535 477
C 8mm EcoSlide bearing, flat	1	3 842 523 212
D 8mm bearing shim, 0.1mm thick	4	8 981 535 891
E M4x12 ISO 7380 BHC screw	1	3 842 510 156
F Locking lever, 20mm (optional for locking)	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

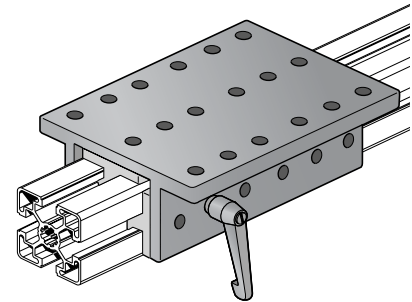
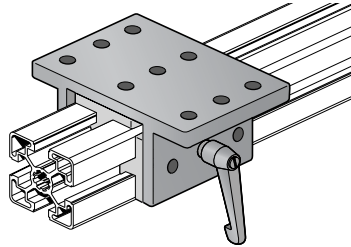
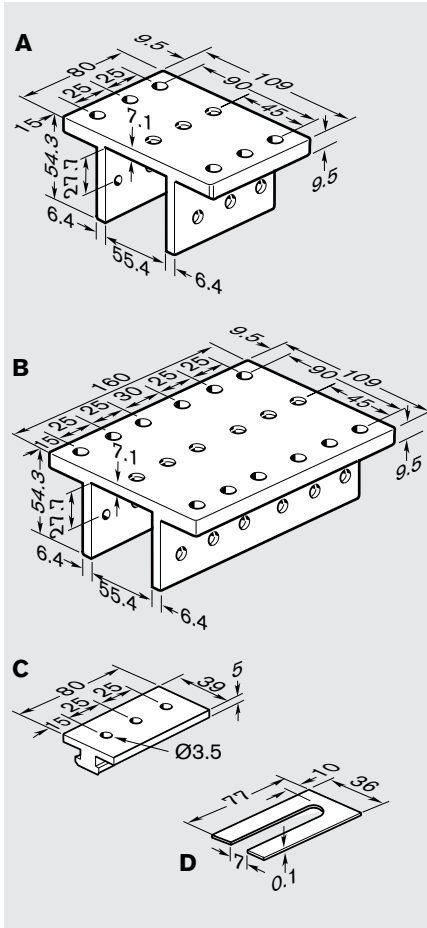


Machining Note



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

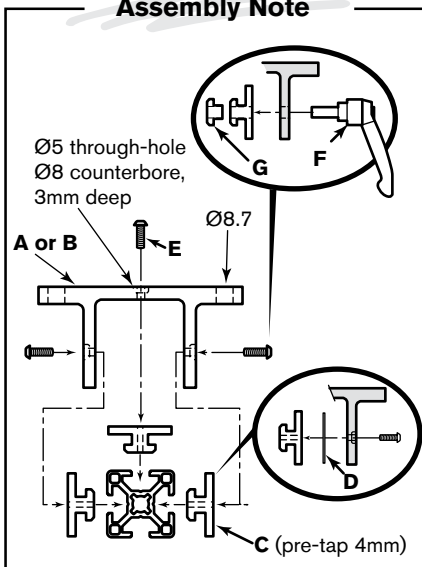
Components for 45x45x80 EcoSlide	Quantity Required
A 45x45x80 EcoSlide carriage	1
C 10mm EcoSlide bearing	3
D 10mm bearing shim	as needed
E M4x12 ISO 7380 BHCS	9
F Locking handle, 20mm	optional
G 10mm M8 T-block	optional

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

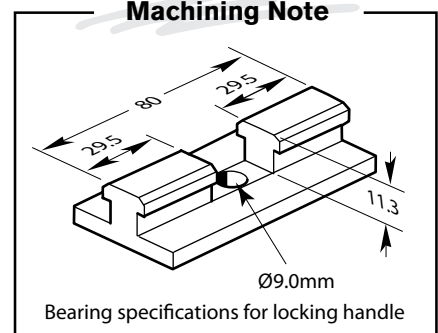
Description	Lot Size*	Part Number
A 45x45x80 EcoSlide carriage	1	8 981 535 323
B 45x45x160 EcoSlide carriage	1	8 981 535 324
C 10mm EcoSlide bearing, flat	1	3 842 530 329
D 10mm bearing shim, 0.1mm thick	4	8 981 535 890
E M4x12 ISO 7380 BHC screw	1	3 842 510 156
F Locking lever, 20mm (optional for locking)	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



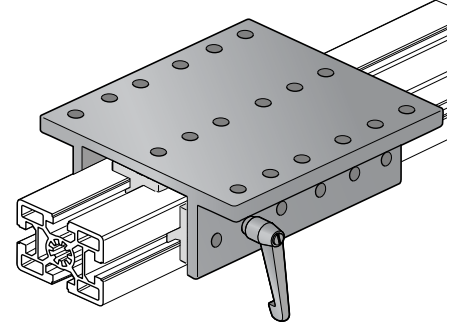
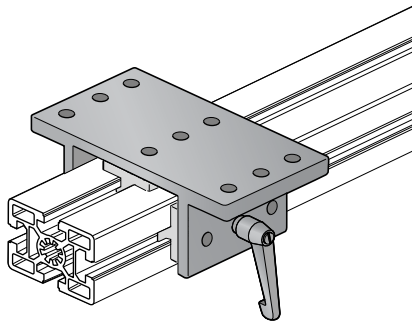
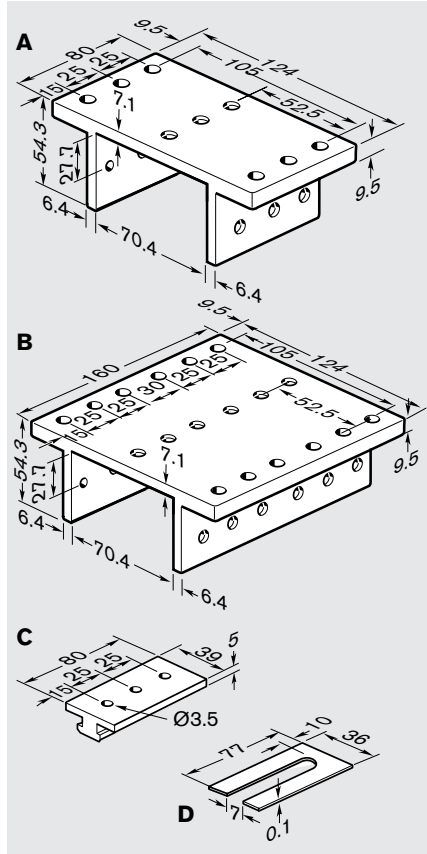
Machining Note



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:

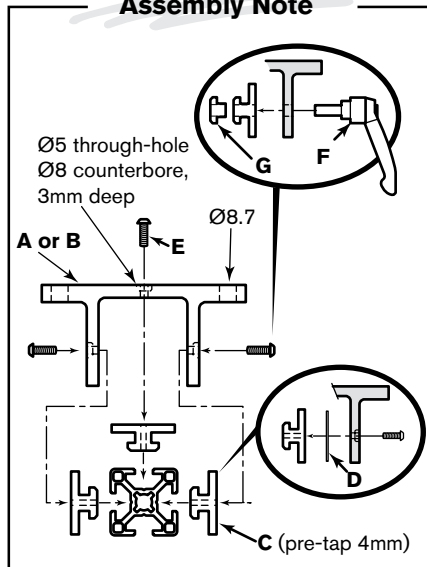
- For use with 45x60H profile
- Safe load capacity of EcoSlide carriage is 2410 N at 12m/min

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

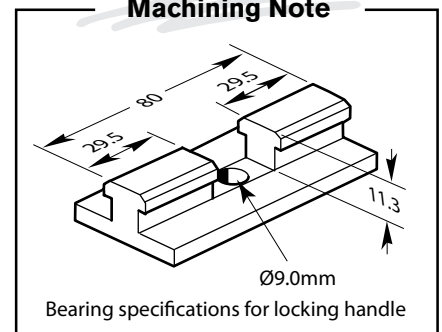
Components for 45x60x160 EcoSlide	Quantity Required
B 45x60x160 EcoSlide carriage	1
C 10mm EcoSlide bearing	6
D 10mm bearing shim	as needed
E M4x12 ISO 7380 BHCS	18
F Locking handle, 20mm	optional
G 10mm M8 T-block	optional

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

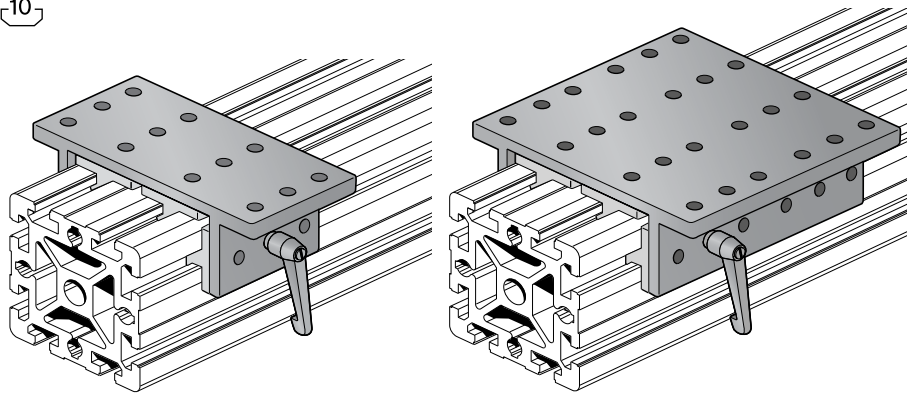
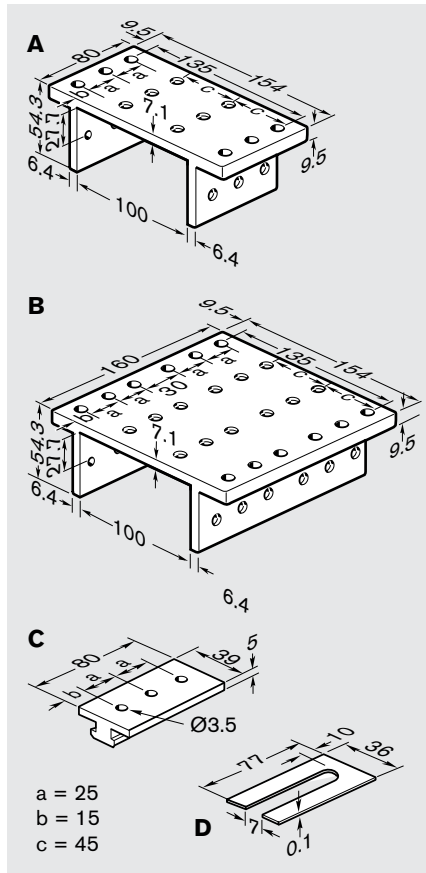
Assembly Note



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:

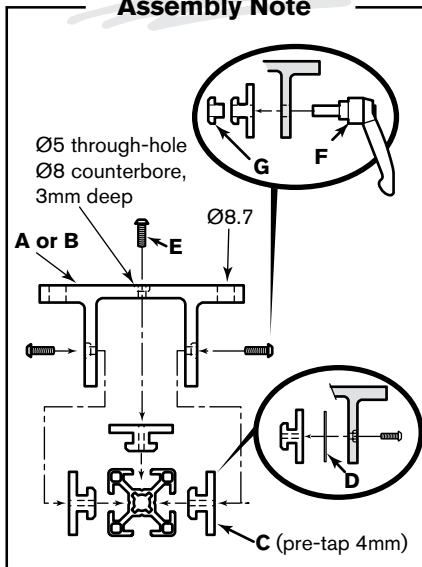
- For use with 90-series profiles, including 45x90, 45x90H, 90x90, and 90x90H profile
- Safe load capacity of EcoSlide carriage is 4817 N at 12m/min

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

