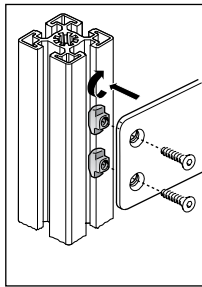


Section 4: Fasteners

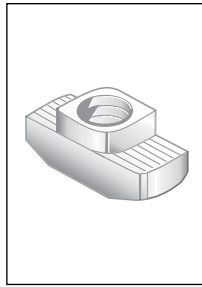
# Overview

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

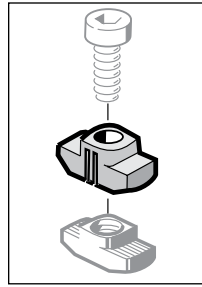
to provide strong, secure fastening. Also, many have grooved surfaces to resist loosening and provide ESD protection.



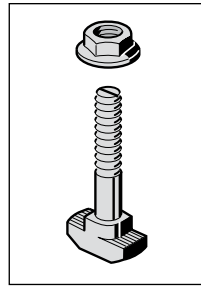
T-Nuts  
4-1 & 4-2



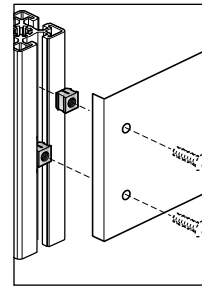
Stainless Steel  
T-Nut  
4-2



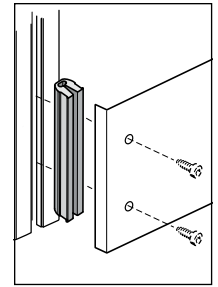
Isolation Cap for  
8mm T-Nut  
4-2



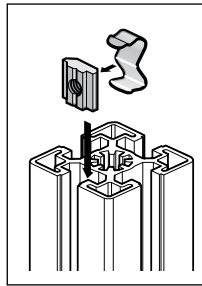
T-Bolt  
Fastening Kits  
4-3



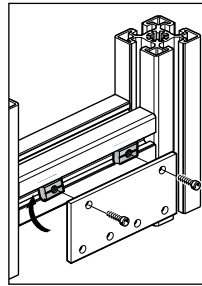
Plastic T-Nut  
4-4



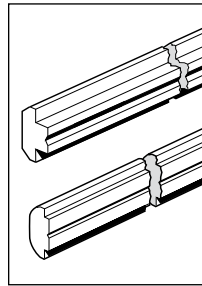
8mm & 10mm  
Mounting Strips  
4-4



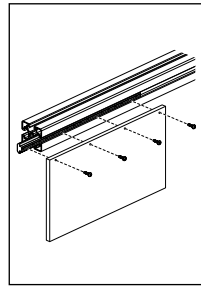
T-Blocks &  
Springs  
4-5



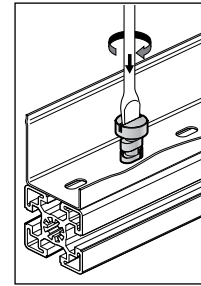
Swivel-In T-Blocks  
& Swivel-In  
T-Blocks  
with Springs  
4-6



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



Anchor Strips  
4-8



Quick-Lock Sheet  
Metal Fasteners  
4-8

## Design Engineering Tip

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

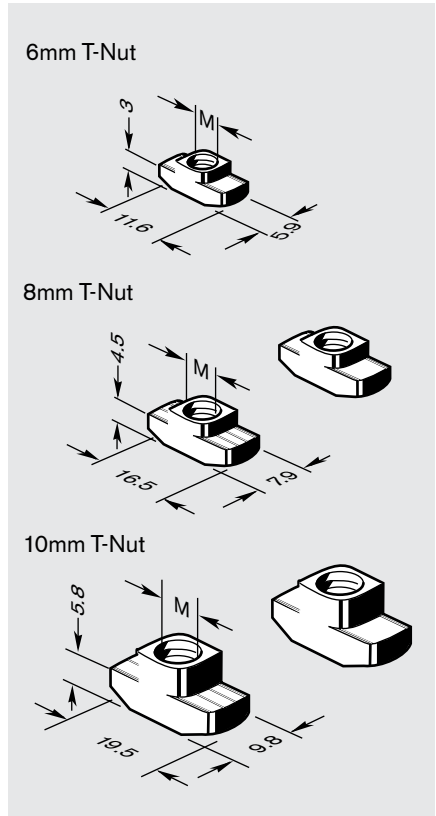
**Alignment Mark**

Section 4: Fasteners

# Fasteners

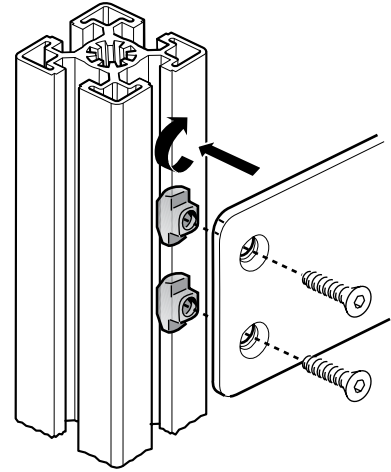
## T-Nuts 6 8 10 **GoTo**

4



**Features:**

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



**Material:**

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

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

**Helpful Hint**

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

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

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

Section 4: Fasteners

# Fasteners

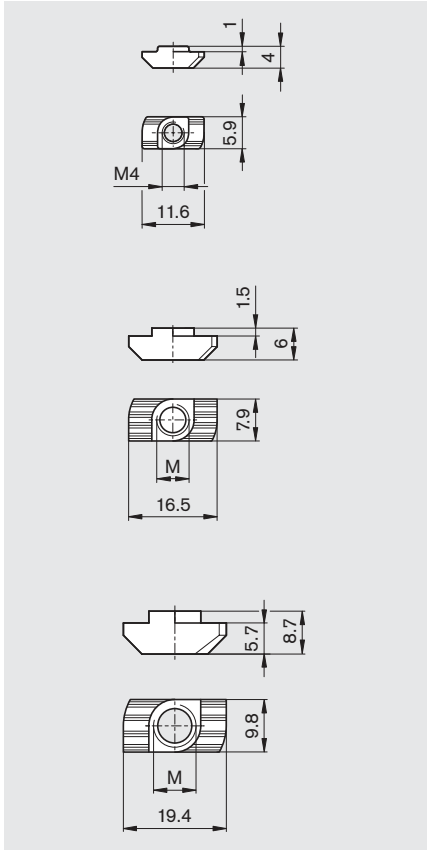
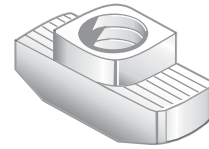
## Stainless Steel T-Nuts 6 8 10



4

**Material:**

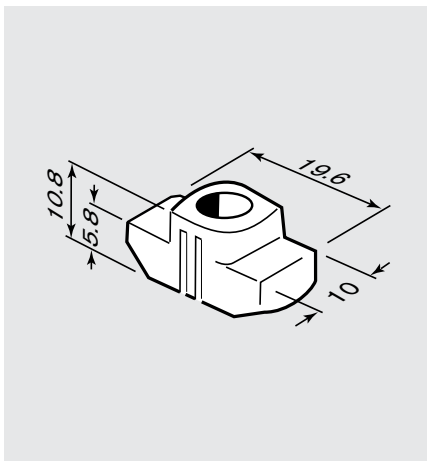
- Stainless Steel 316



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

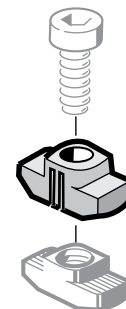
\* For smaller quantities, please contact your local distributor.

## Isolation Cap for 8mm T-Nut 10



**Features:**

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



**Material:**

- Black polyamide 6

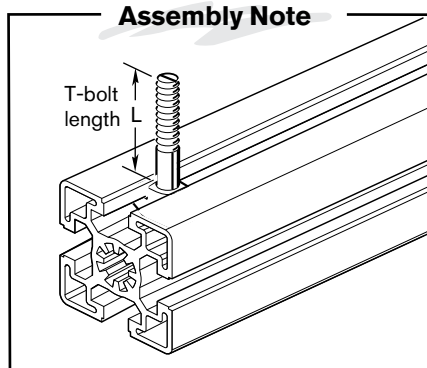
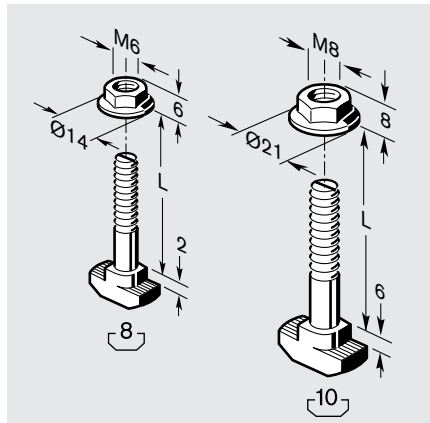
Description	Lot Size*	Part Number
Isolation cap for 8mm T-nut	10	<b>3 842 524 012</b>

\* For smaller quantities, please contact your local distributor.

Section 4: Fasteners

4

**T-Bolt Fastening Kits**    **GoTo**

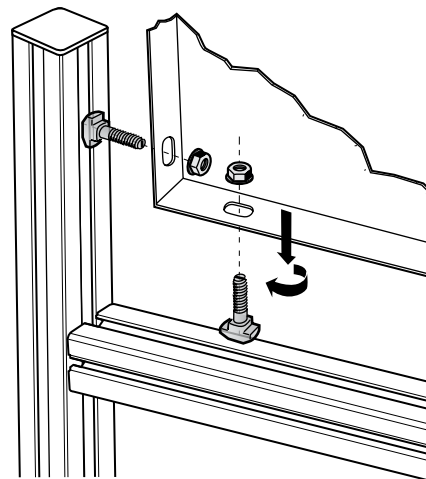




**Features:**

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

**Material:**

- Zinc-plated industrial grade 8.8 steel

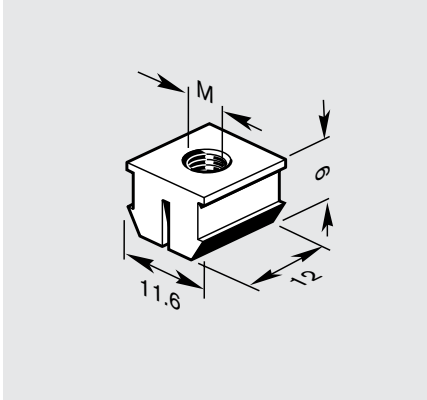


Description	Tightening Torque (± 5%)	Lot Size	Part Number
<b>8mm T-Bolt Fastening Kits</b> 			
L = 5/8", 1/4-20 T-bolt fastening kit	10 Nm	1	<b>8 981 021 556</b>
L = ", 1/4-20 T-bolt fastening kit	10 Nm	1	<b>8 981 021 557</b>
L = 14mm, T-bolt fastening kit	10 Nm	1	<b>8 981 019 577</b> <i>GoTo</i>
L =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

Section 4: Fasteners

# Fasteners

## Plastic T-Nut <sup>10</sup>

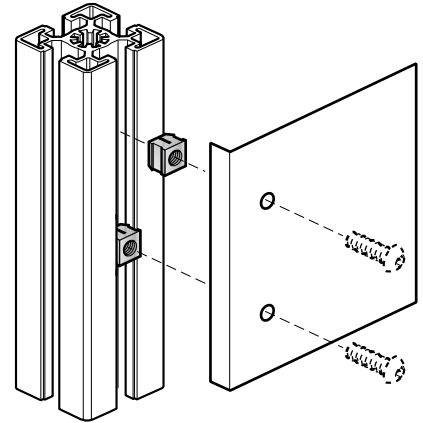


**Features:**

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

**Material:**

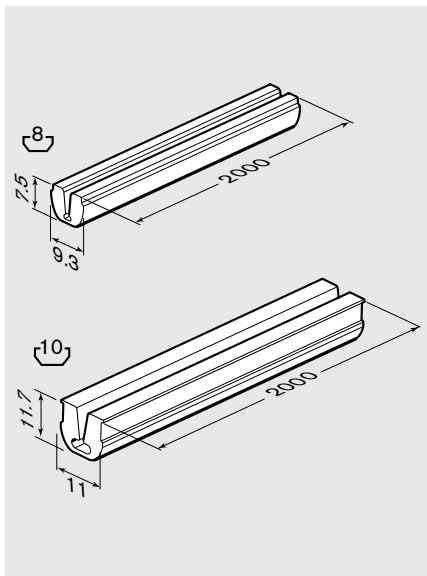
- Black polyamide 6



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

\* For smaller quantities, please contact your local distributor.

## 8mm & 10mm Mounting Strips <sup>8</sup> <sup>10</sup>

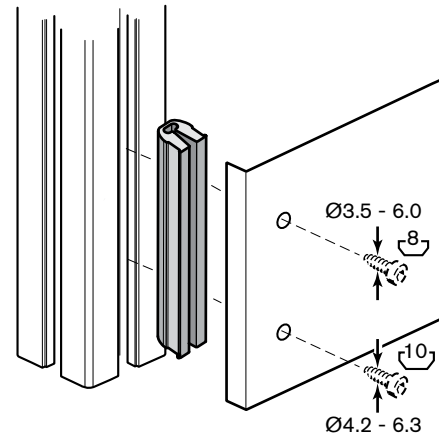


**Features:**

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

**Material:**

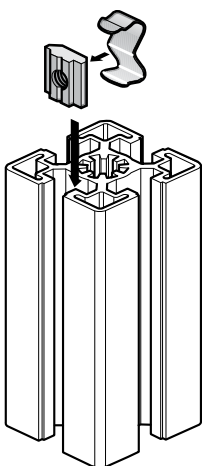
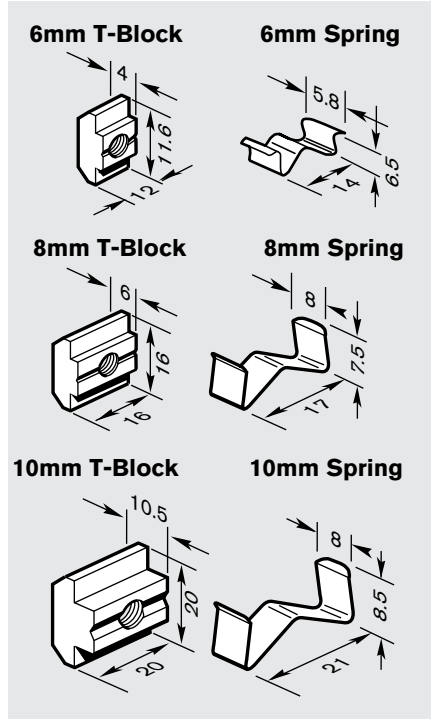
- Light gray PVC



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

Section 4: Fasteners

T-Blocks and Springs <sup>6</sup> <sup>8</sup> <sup>10</sup> **GoTo**



**Features:**

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

**Material:**

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

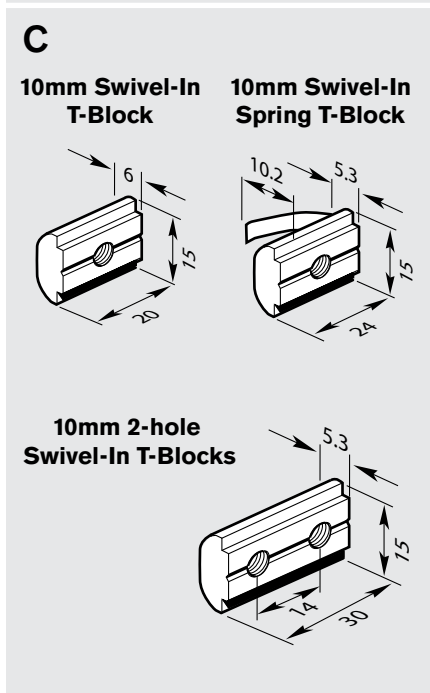
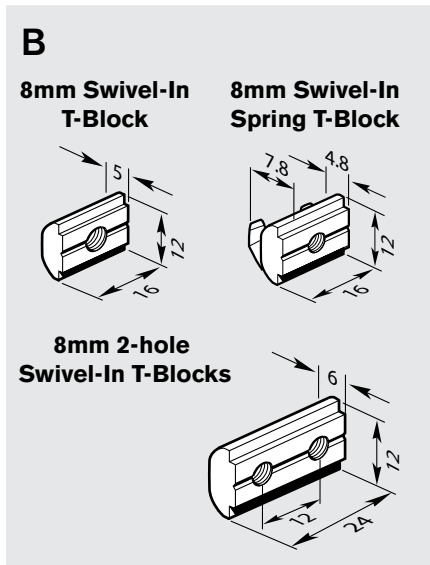
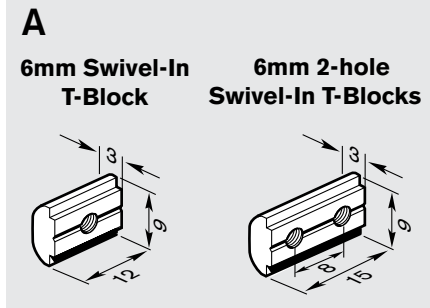
**Helpful Hint**  
 To simplify installation, use a spring to hold the T-block in position in the T-slot while making vertical connections.

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

Section 4: Fasteners

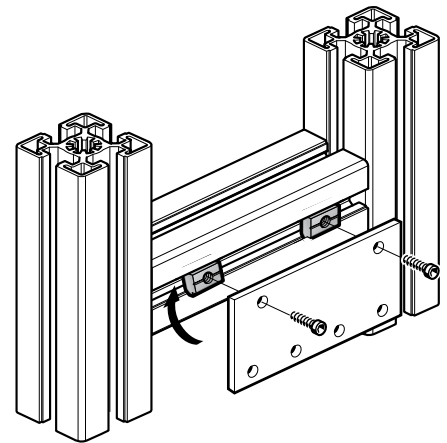
# Fasteners

## Swivel-In T-Blocks 6 8 10 **GoTo**



**Features:**

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



**Material:**

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

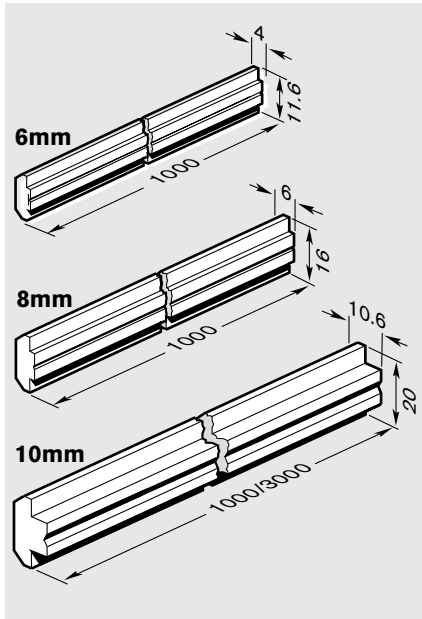
Description	Tightening Torque (± 5%)	Lot Size*	Part Number
<b>A 6mm Swivel-In T-Blocks</b> <span style="font-size: 0.8em;">6</span>			
M4	2.5 Nm	1	<b>3 842 536 669</b>
2 x M4, stainless steel	2.5 Nm	100	<b>3 842 536 673</b>
<b>B 8mm Swivel-In T-Blocks</b> <span style="font-size: 0.8em;">8</span>			
M5	5 Nm	1	<b>3 842 529 319</b>
M6	10 Nm	1	<b>3 842 529 320</b>
M8	25 Nm	1	<b>3 842 529 321</b>
M8, stainless steel	25 Nm	1	<b>3 842 530 321</b>
M5 with spring	5 Nm	1	<b>3 842 529 295</b>
M6 with spring	10 Nm	1	<b>3 842 529 296</b>
M8 with spring	25 Nm	1	<b>3 842 529 297</b>
2 x M5	5 Nm	100	<b>3 842 536 675</b>
<b>C 10mm Swivel-In T-Blocks</b> <span style="font-size: 0.8em;">10</span>			
M6	10 Nm	1	<b>3 842 529 323</b>
M8	25 Nm	1	<b>3 842 529 324</b>
M8, stainless steel	25 Nm	1	<b>3 842 530 316</b>
M5 with spring	5 Nm	1	<b>3 842 529 298</b>
M6 with spring	10 Nm	1	<b>3 842 529 299</b>
M8 with spring	25 Nm	1	<b>3 842 529 300</b> <b>GoTo</b>
2 x M5	5 Nm	100	<b>3 842 536 676</b>
1/4-20	88 lb-in	1	<b>8 981 021 441</b>
5/16-18	221 lb-in	1	<b>8 981 021 440</b>
10-32	44 lb-in	1	<b>8 981 021 442</b>

\* For smaller quantities, please contact your local distributor.

Section 4: Fasteners

4

**T-Bars** 6 8 10

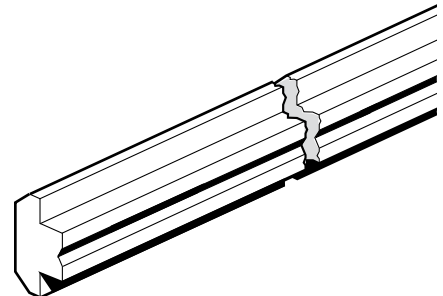


**Features:**

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

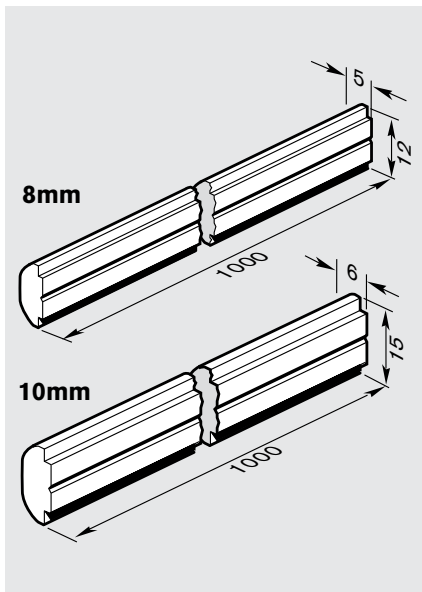
**Material:**

- 12L 14 cold-drawn steel



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

**Swivel-In T-Bars** 8 10

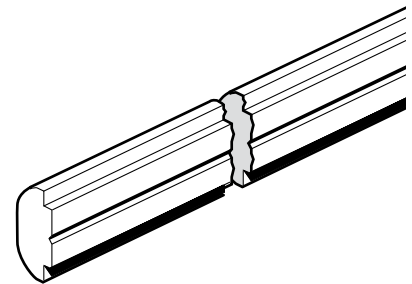


**Features:**

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

**Material:**

- 12L 14 cold-drawn steel



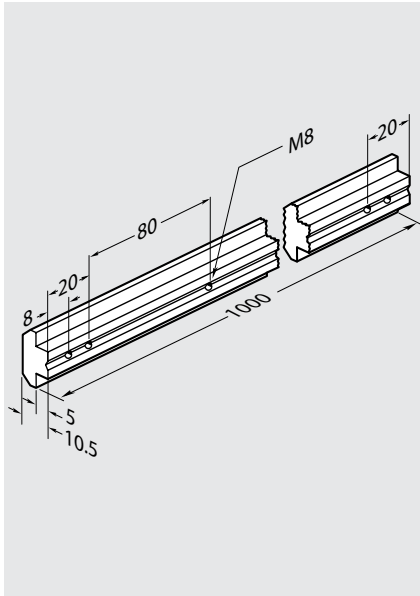
Description	Lot Size	Part Number
8mm swivel-in T-bar, 1000mm long	1	3 842 529 327
10mm swivel-in T-bar, 1000mm long	1	3 842 529 325



Section 4: Fasteners

# Fasteners

## Anchor Strips <sup>10</sup>

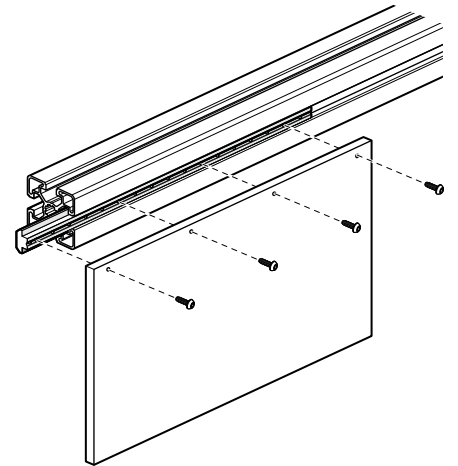


**Features:**

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

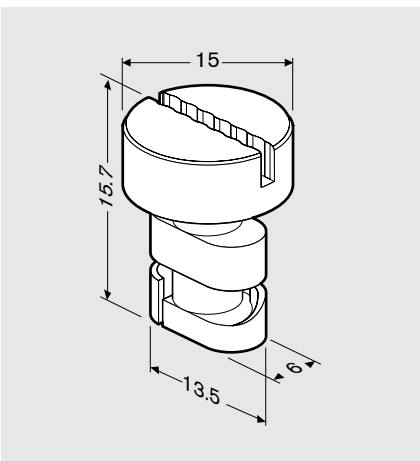
**Material:**

- 12L 14 cold-drawn steel



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

## Quick-Lock Sheet Material Fastener <sup>10</sup>

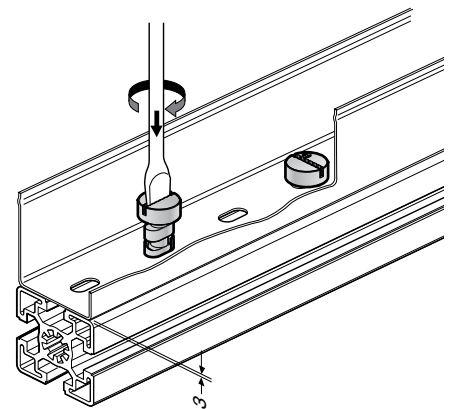


**Features:**

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

**Material:**

- Black polyamide 12



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

Section 4: Fasteners

# Notes