

AUTOMATIONDIRECT.com



T-Slotted Aluminum Rails and Components

Sure frame™

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T-Slotted Structural Rails and Hardware Components

T-slotted rail structures are common in just about every industry imaginable. Because the structures built with these components are economical, lightweight and modular, they have become a popular choice when building a temporary or even a more permanent structure. Some uses of these components are

barcode scanner tunnels above conveyors; label applicator machine stands; and inline weigh scale structures. Oftentimes these slotted rail structures are used to enclose a working area of a machine off from personnel. When a little creativity is applied, these components become even more useful.



T-Slotted aluminum rail structure holding fans above a conveyor

This is a material that is very easy to work with and is also very forgiving, which lends to its popularity. Here are some examples of structures you might see made out of T-slotted aluminum rail components.



A packaging machine using T-slotted aluminum rail as an enclosure around the working parts of the machinery



Cardboard case erector using T-slotted aluminum rail for support and mounting working components

In addition to being called T-slotted rail, other names for this component are slotted aluminum rail, extruded aluminum rail, aluminum stock or you may know it by one of its popular brand names. The best part of this material is that the components are compatible and interchangeable regardless of the brand as long as the components that are chosen fit the intended size rail.

AutomationDirect carries a wide variety of assembly hardware for T-slotted rail systems, including T-nuts, fasteners, connecting components, joining plates and brackets, as well as floor, door and panel elements. These components are a perfect fit with many brands of rail and existing hardware.



Why buy T-slotted aluminum rail and hardware components from us?

There are several distinct advantages to purchasing T-slotted rail and hardware components from AutomationDirect:



No cut fees ever

We will never charge you a fee to cut a product to length. The price you see is what you pay.



Free 2-day delivery for orders over \$49*

Not only is shipping free on orders over \$49, you will get your product custom cut to the length desired and receive it in 2 business days. **See Terms and Conditions for exceptions.*



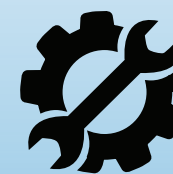
Price

As with all of our product lines, our prices are often well below the list prices of traditional automation suppliers. Our direct business model allows us to operate more efficiently than other suppliers and pass the savings on to you.



Availability

All of our T-slotted rail hardware components are stocked in one of our local warehouses here in Georgia. That's correct, when we say we have them in stock, they are in our inventory and ready to be shipped to you. You will not have to wait months for a few small hardware pieces to arrive nor will you have to order from several different sources just to get everything to complete your project. Our SureFrame T-slotted rail is cut to length and shipped out to you quickly. Not only do you get the custom cut at the length you want, you get it fast too.



Service

We give you options for self-service but at the same time, we are there when you need us. You can place your order online or call our customer service team. Have a technical question about one of our products or need help gathering up a bill of materials for one of your projects? You can call our free Technical Support.

SureFrame™ Rails

SureFrame™ rails are T-slotted aluminum rails available in standard-size profiles and compatible with other brands of rails and hardware for a perfect fit. These T-slotted rails are available in your specified cut-to-length sections.

Popular Standard-Size Profiles Available

SureFrame™ T-slotted rails are available in many popular standard-size profiles, including:



Check out all our current prices live!

*Also available in UV resistant black anodized for standard and lightweight rail

Cut-To-Length Service

SureFrame™ rails are cut to the exact lengths you need, with no cutting fees charged. With a minimum of 6.000" [15.24cm] to a maximum of 90.000" [228.6cm] in 0.001-inch increments. You can specify if the cut is a standard 90-degree cut or a 45-degree cut when ordering with a cut accuracy of 0.006" (0.015 cm).

See how easy it is to order custom cut rails from our store.

SureFrame™ T-Slotted Aluminum Rails Features

- 6063 T6 clear anodized and black anodized aluminum
- Hardness - Webster Model B 11-12
- Straightness - 0.0125 inch/ft
- Twist - 0.25°/ft
- Yield Strength - 29007 psi
- Tensile Strength - 33359 psi
- 2° Drop lock feature - enables connections to remain vibration resistant and strong

10 Series Fractional T-Slotted Aluminum Rail*

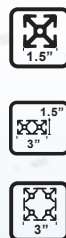
- 1 x 1 in profile, slot size 6 in standard weight
- 1 x 2 in profile, slot size 6 in standard weight
- 2 x 2 in profile, slot size 6 in standard weight

30 Series Metric T-Slotted Aluminum Rail

- 30 x 30mm profile, slot size 8 in standard weight
- 30 x 60mm profile, slot size 8 in standard weight
- 60 x 60mm profile, slot size 8 in standard weight

15 Series Fractional T-Slotted Aluminum Rail*

- 1.5 x 1.5 in profile, slot size 8 in standard, light and ultra light weights
- 1.5 x 3 in profile, slot size 8 in standard and light weights
- 3 x 3 in profile, slot size 8 in standard weight

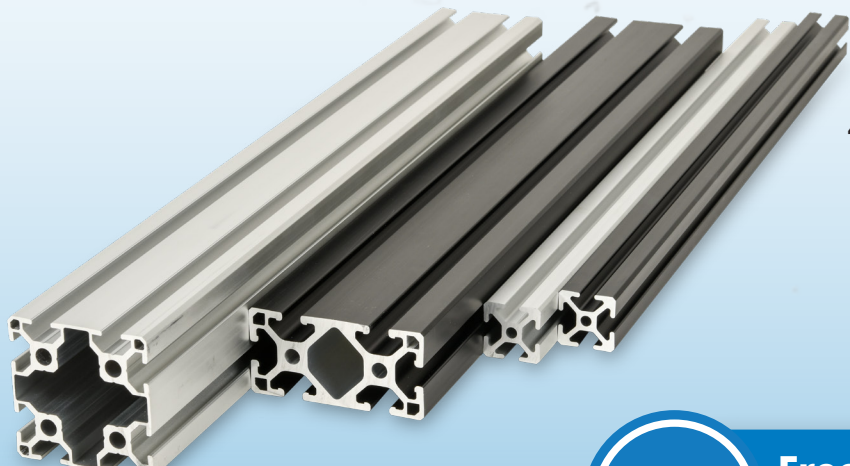


40 Series Metric T-Slotted Aluminum Rail*

- 40 x 40mm profile, slot size 8 in standard and light weights
- 40 x 80mm profile, slot size 8 in standard and light weights
- 80 x 80mm profile, slot size 8 in standard weight

45 Series Metric T-Slotted Aluminum Rail

- 45 x 45mm profile, slot size 10 in standard and light weights
- 45 x 90mm profile, slot size 10 in standard and light weights
- 90 x 90mm profile, slot size 10 in standard weight



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Callouts from the screenshot:

- Check out our prices!
- Precision cuts!
- View parts that are already in your cart
- Specify your cuts here
- Name your parts! (optional)
- Download CAD models of your EXACT cuts!

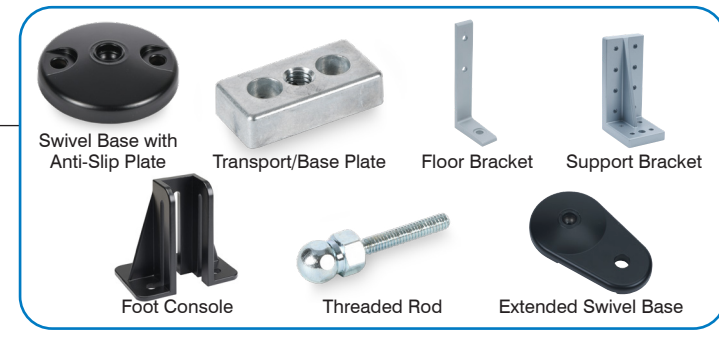
T-Slotted Rail Hardware Components



T-Slotted Nuts

T-slotted nuts for structural rail systems are inserted into the rail slot to provide a threaded fastening point on the side of the rail. Available components include:

- Single-economy T-nuts
- Double-economy T-nuts
- Hammer nuts
- Roll-in T-slot nuts with leaf spring or spring loaded ball
- Slide-in T-slot nut
- For 10, 15, 30, 40, 45 series



Bases

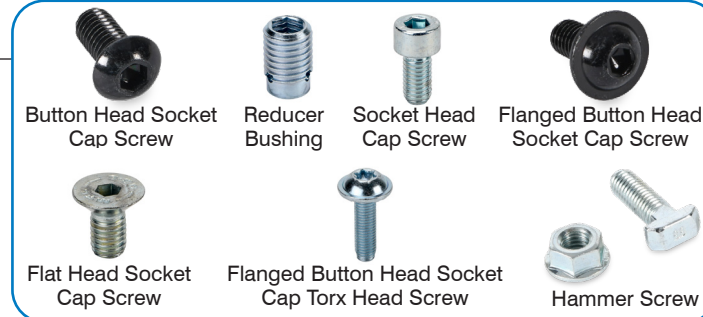
Bases for T-slotted rail systems are used as stationary elements on which the structure is mounted. Available base components include:

- Extended swivel bases with anti-slip plates
- Transport/base plates
- Threaded rods
- Floor brackets
- Support brackets
- Foot consoles - available in silver and black
- For 10, 15, 30, 40, 45 series

Fasteners

Fasteners for T-slotted structural rail systems allow rails to be connected to T-slotted nuts. Available components include:

- Hammer screws that provide a safe electrically conductive connection
- Button head socket cap screws
- Flanged button head socket cap screws
- Flat head socket cap screws
- Socket head cap screw
- Torx head cap screw
- Reducer bushings
- self-tapping screws available
- For 10, 15, 30, 40, 45 series



Casters

Casters for T-slotted rail systems are used as moving elements on which the structure is mounted. Available caster components include:

- Swivel casters
- Fixed casters
- Castor adapter plates
- Leveling casters
- For 10, 15, 30, 40, 45 series



Connecting Components

Connecting components for T-slotted rail systems are used to join rails together. Available components include:

- Cube connectors (2D and 3D)
- Angle connectors
- Inline connectors for butt joining (many styles)
- Duo connectors
- T-matic connectors
- Milling connectors
- Screw connectors
- Direct connectors
- Miter connectors
- For 10, 15, 30, 40, 45 series
- Select components available in silver and black



Hinges

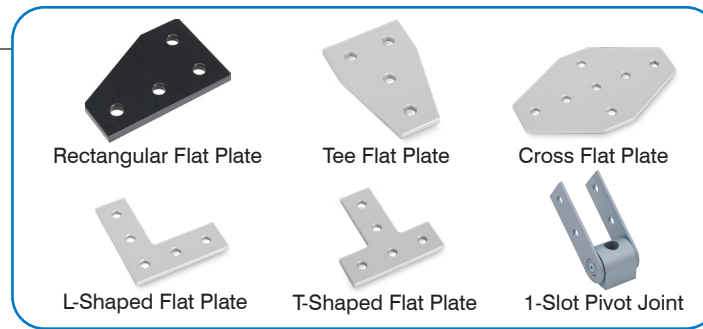
Hinges for T-slotted rail systems connect moveable panels or doors to a T-slot rail. Available components include:

- Combination hinges in fiberglass reinforced plastic
- Combination hinges in die-cast aluminum
- For 10, 15, 30, 40, 45 series

Joining Plates

Joining plates for T-slotted rail systems are used to join rails together in a variety of ways, as well as provide stabilization. Components available include:

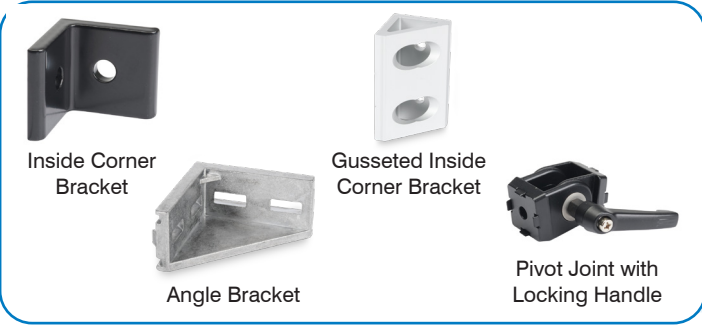
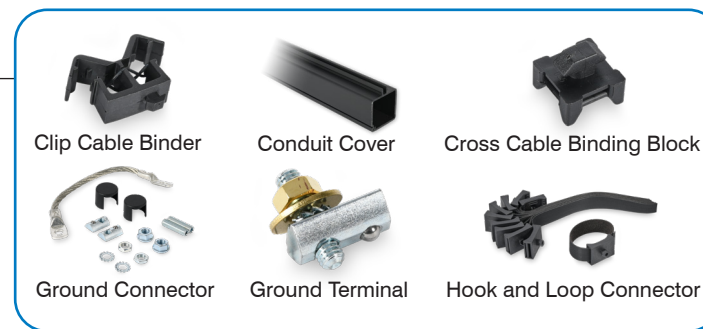
- Straight flat plates
- Square flat plates
- Rectangular flat plates
- Tee flat plates
- Cross flat plates
- L-shaped flat plates
- T-shaped flat plates
- Pivot joints
- For 10, 15, 30, 40, 45 series
- Select components available in silver and black



Wire Management

Wire management components for T-slotted rail systems allow associated wires and cables to be routed and mounted safely away from personnel. Available components include:

- Conduit covers
- Clip cable binders
- Cross cable binding blocks
- Hook and loop fasteners
- Ground connectors
- For 10, 15, 30, 40, 45 series



Brackets

Brackets for T-slotted rail systems are used to connect rails together and stabilize joints. Available components include:

- Corner brackets
- Angle brackets
- Adjustable pivot joints (with and without a locking handle)
- For 10, 15, 30, 40, 45 series
- Select components available in silver and black



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T-Slotted Rail Hardware Components



peripheral hardware
not included

Workstation Components

Workstation components for T-slotted rail systems allow PC monitors and workstation peripherals to be mounted near the equipment. This includes swivel monitor mounts, monitor mounting joints, multi-axis mounting supports, workstation supports, and workstation components.

Available components include:

- Swivel monitor mounts
- Monitor mounting joints
- Monitor holders
- 4- and 5-axis mounting supports
- 4-axis workstation supports
- Miscellaneous workstation components
- For 10, 15, 30, 40, 45 series



Swivel Monitor Mount

Monitor Holder

5-Axis Mounting Support

4-Axis Workstation Support

Keyboard Holder

Grab Tray

Panel & Door Elements

Panel and door components for T-slotted rail systems offer opening/closing mechanisms, including handles; latches and catches; emergency openers; profiles/rail covers; magnetic catches, and sliding door guides; as well as machine guarding panel hardware including panel holders, hangers, and mounting blocks. Available components include:

- Handles and comfort caps
- Latches and catches
- Emergency openers
- Profiles (rail covers)
- Panel holder for wire mesh machine guarding panel
- Panel mount block for solid machine guarding panel
- Magnetic catches
- Hangers
- Panel Uni-blocks
- Sealing profiles
- For 10, 15, 30, 40, 45 series



Comfort Handle

Emergency Opener

Compact Slam Latch

Panel Holder

Panel Mount Block

Magnetic Catch

Hanger

Sliders & Rollers

Sliders & rollers for T-slotted rail systems allow smooth horizontal movement or sections or panels and include rollers, roller elements, slides, and slider elements. Available components include:

- Sliders
- Sliders with clamp lever
- Roller
- Linear bearings - available in silver and black
- Cam lever brakes
- Roller elements with and without a guide
- For 10, 15, 30, 40, 45 series



Linear Bearing

Roller Element With Guide

Slider

Roller

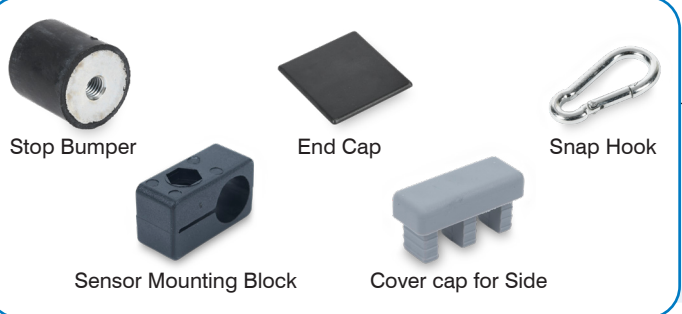
Cam Lever Brake

Slider With Clamp Level

Accessories

An assortment of miscellaneous accessories to help complete installation for T-slotted rail systems include:

- End caps
- Bumpers
- Snap hooks
- Sensor mounting blocks
- Protection profiles and caps
- For 10, 15, 30, 40, 45 series



Stop Bumper

End Cap

Snap Hook

Sensor Mounting Block

Cover cap for Side