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# T-Slotted Aluminum Rails and Components

**Sure** frame<sup>®</sup>

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**FATH<sup>®</sup>**  
COMPONENTS



**ERGO****SWISS**  
table lift systems



# 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



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

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

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.



## 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:

### 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




### 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




### 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

### 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

# Sure frame®



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

Check out all our current prices live!



## 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

## 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.

Previous ItemNext Item >>

In Stock

1 YEAR WARRANTY

☐ Compare

Price: **\$0.23 / in**

Orderable in 0.001 in increments from 4.50 in to 90.0 in

In Cart:

Part Name: Right Side Strut

Left: 45° Length: 15.000 in Right: 135° Qty: 1 Price: \$3.45

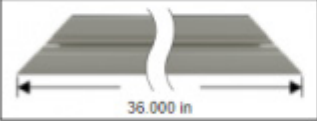
Part Name: Top Brace

Left: 90° Length: 8.000 in Right: 45° Qty: 1 Price: \$1.84

Specify a Profile:

Length:  in Qty:

Left Cut:  Right Cut:




This Profile: **\$8.28**

Part Name (Optional)

Update Cart

View 3D CAD with your cuts

Item Shipping Weight: 0.05 lb / in  
Country Of Origin: USA  
HS Code: 7604.21



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!

\*Prices subject to change without notice

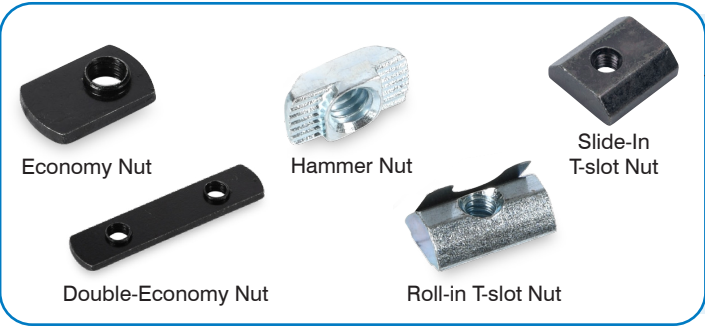


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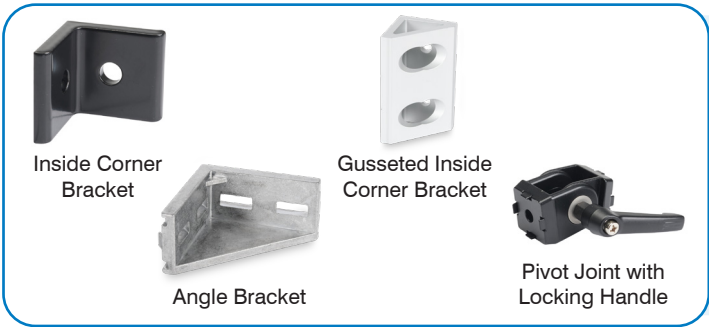
# T-Slotted Rail Hardware Components



## 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



## Brackets

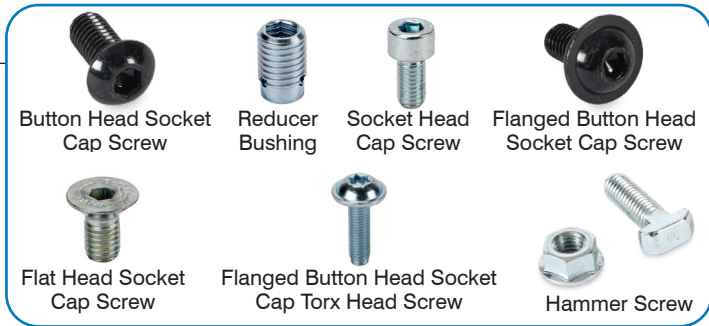
Brackets for T-slotted rail systems are used to connect rails together and stabilize joints. Available components include:

- 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

## Fasteners

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

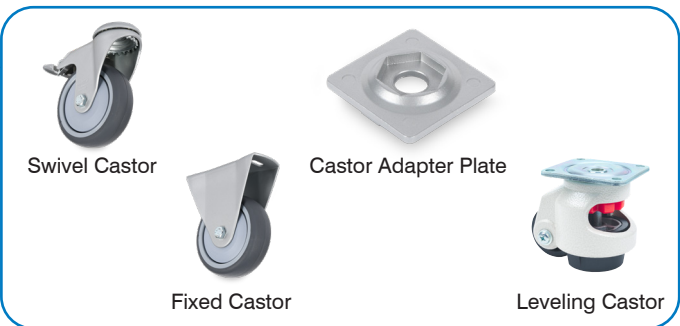
- Hammer screws that provide a safe electrically conductive connection
- Button head socket cap screws
- Flanged button head socket cap screws
- Flat head socket cap screws
- Socket head cap screw
- Torx head cap screw
- Reducer bushings
- self-tapping screws available
- For 10, 15, 30, 40, 45 series



## Casters

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

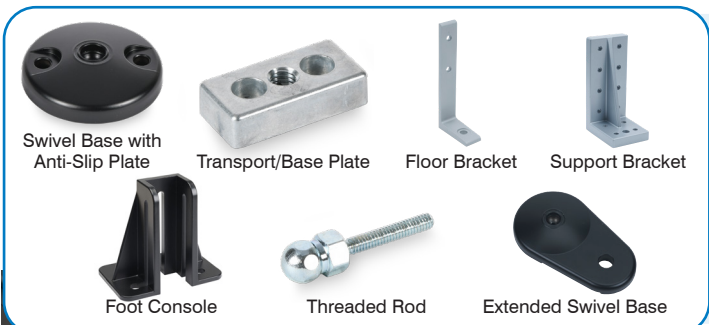
- Swivel casters
- Fixed casters
- Castor adapter plates
- Leveling casters
- For 10, 15, 30, 40, 45 series



## 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



## Bases

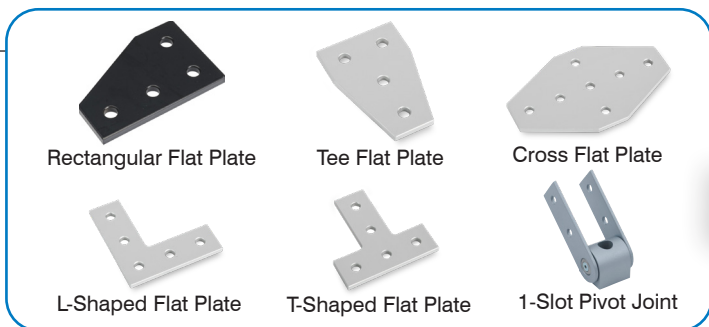
Bases for T-slotted rail systems are used as stationary elements on which the structure is mounted. Available base components include:

- Extended swivel bases with anti-slip plates
- Transport/base plates
- Threaded rods
- Floor brackets
- Support brackets
- Foot consoles - available in silver and black
- For 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





# T-Slotted Rail Hardware Components



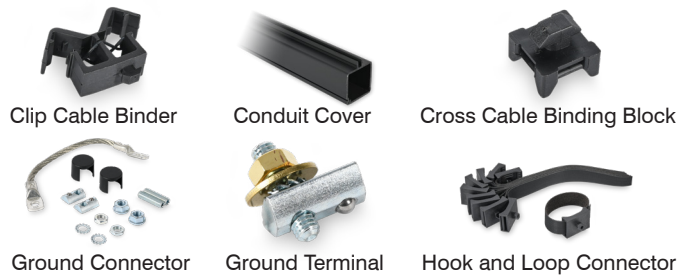
peripheral hardware  
not included



## 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



## Hinges

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

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



Combination Hinge  
with Lock Lever  
Fiberglass

Combination Hinge  
Die-Cast Aluminum

## 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

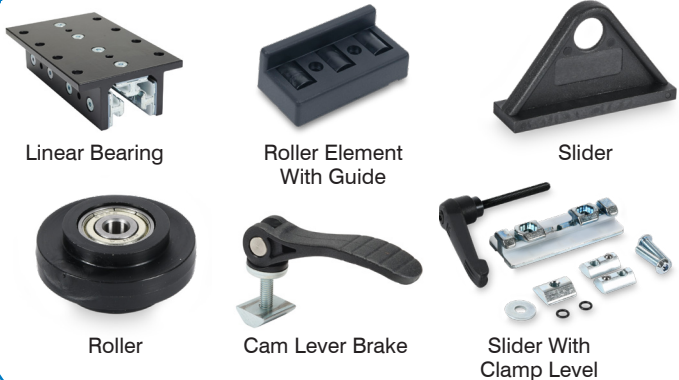
Keyboard Holder

Grab Tray

## 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

## 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

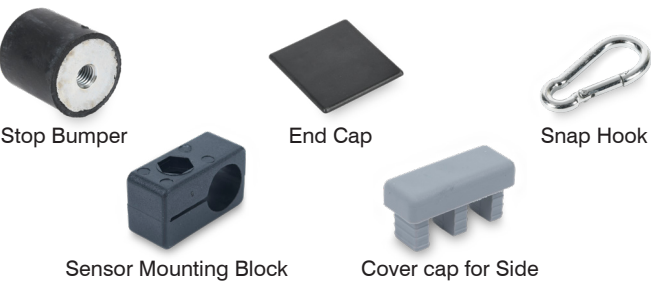
Compact Slam Latch

Panel Holder

Panel Mount Block

Magnetic Catch

Hanger



Stop Bumper

Sensor Mounting Block

End Cap

Cover cap for Side

Snap Hook

## Accessories

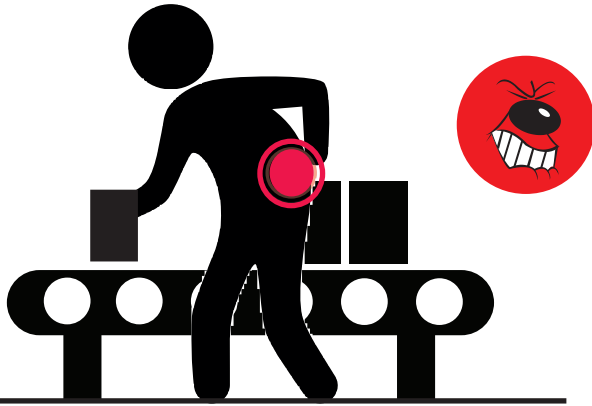
An assortment of miscellaneous accessories to help complete installation for T-slotted rail systems include:

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



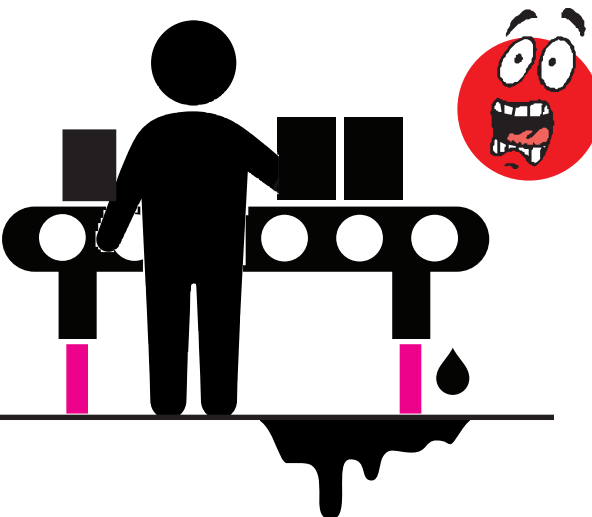
# Table Lifting Systems

Many industrial systems depend on human interaction to function properly. Ensuring these systems allow for adjustments so the operator can perform their duty with utmost safety and comfort is imperative to keeping the system up and running. Back injuries are one of the most common injuries in the workplace and are often caused by carrying heavy loads, twisting while holding something, or working in one posture or an odd position for long periods. These injuries can be limited greatly with the use of table lifting systems. The Ergoswiss SQ series lifting system uses electrically-driven columns that allow the operator to reposition the height of the worktable, conveyor, etc. to meet their specific requirements. Each column is capable of lifting 330lbs with available lifting heights of 300mm and 400mm or approximately 12 and 16 inches respectively.



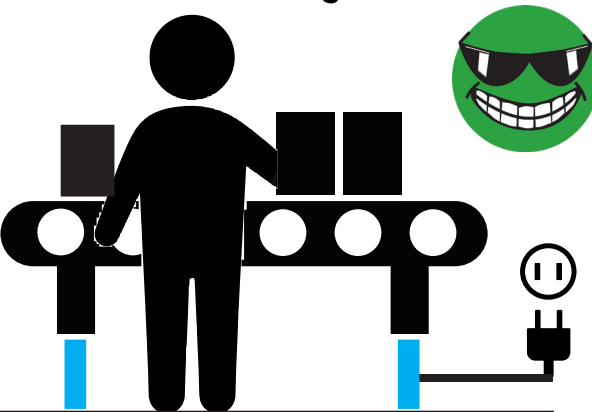
## WATCH YOUR BACK!

It is documented that back injuries account for 1 of every 5 workplace injuries and for systems that rely on operator input, it is vital that operator comfort be considered. Working in a bent position for long hours can cause serious injuries to needed personnel, resulting in staffing shortages and equipment downtime.



## SKIP THE MESS!

Many available table lifting systems utilize hydraulic components. While these systems can perform the needed repositioning, they also come with the risk of fluid leaks. These leaks can happen at any time and if not noticed quickly can become a slip hazard and a serious mess to deal with.



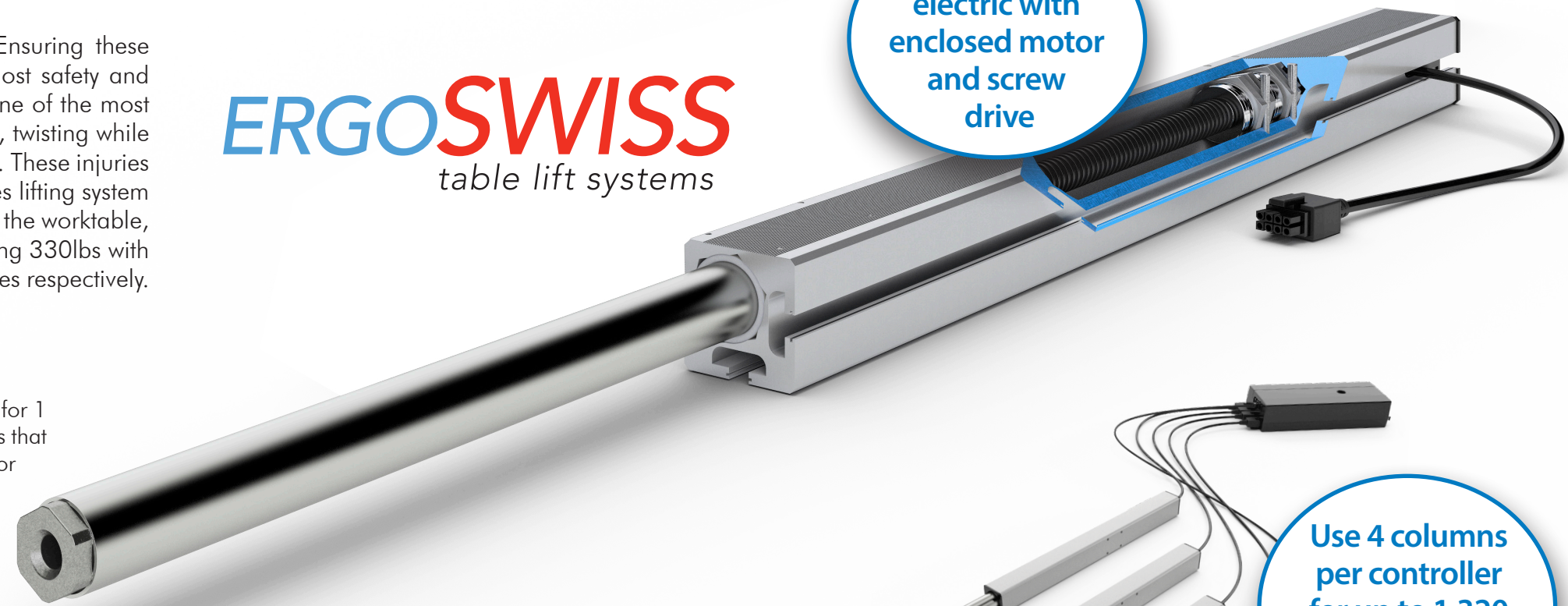
## THE ERGOSWISS SOLUTION

The Ergoswiss table lifting system uses fully-electric lifting columns, each with an enclosed motor and screw drive to perform the needed height adjustments. With Ergoswiss, there is no hydraulic mess to worry about and no manual hand cranks. Raise or lower equipment electrically with simple pushbutton controls and save the preferred position in the controller using the 3 memory settings!

# ERGOSWISS

table lift systems

Completely electric with enclosed motor and screw drive

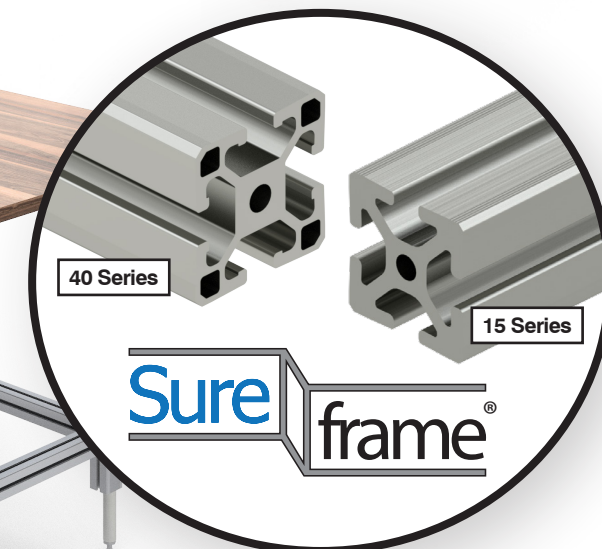
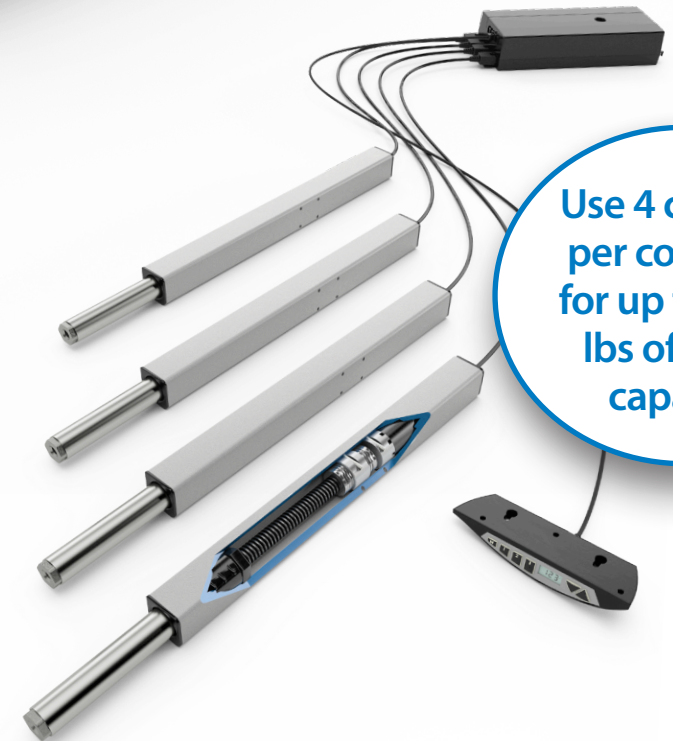


## ERGOSWISS SQ SERIES

### Columns starting at \$500

Ergoswiss lifting columns provide an affordable solution for adding ergonomic height adjustability to operator controlled equipment. Columns are sold individually or in two convenient kits with controller and 4 columns included. Each controller can operate up to four lifting columns and can be synced with an additional controller for up to another 4 columns (8 total)! The controller offers easy to use up/down buttons and memory settings as well as a tilt sensor for added safety that will stop operation if it senses a tilt of more than 2.5 degrees.

Use 4 columns per controller for up to 1,320 lbs of lifting capacity!



## SUREFRAME APPROVED

Ergoswiss lifting columns work well with SureFrame 15 series and 40 series T-slotted rails. Use these rails and Ergoswiss lifting columns to build adjustable tables, workstations, or any structure your system requires.