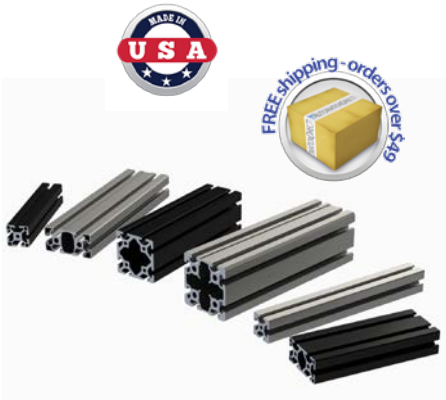
Sure frame® Aluminum T-Slotted Rail

40 Series Metric T-Slotted Aluminum Rail

SureFrame™ T-slotted aluminum rails are extruded exclusively for AutomationDirect, with features, quality, and performance you expect. SureFrame T-slotted rails are compatible with other popular brands.

- Cut to length in 0.01 cm increments
- Minimum cut length: 15.24 cm
- Maximum cut length: 228.0 cm
- Cut accuracy: +/- 0.015 cm [0.15mm]
- Corrosion and UV resistant

Properties	
Material	Aluminum 6063-T6
Finish	Clear or Black Anodize
Hardness	Webster Model B 11-12
Straightness	0.0125 inch/ft [1.042 mm/m]
Twist	0.25°/ft [0.25°/305mm]

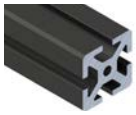


40 Series (metric)

Slot Size 8 — Core Hole Ø 6.8 mm

40 Series (mm): 40x40, 40x80, 80x80

2° Drop Lock — T-Slot Drop Lock feature improves connection strength and vibration resistance

Part Number	*Part Image*	*Price per cm*	*Profile Size*	*Weight Class*	*Weight lbs/ft [kg/m]*	*Moment of Inertia Lx (in⁴ [cm⁴])*	*Moment of Inertia Ly (in⁴ [cm⁴])*	*Drawing Link*
40-4040C		$0.30	40 x 40mm	Standard	1.624 [2.417]	0.324 [13.478]	0.324 [13.478]	PDF
40-4040B		$0.40						PDF
40-4040CL		$0.24		Light	1.170 [1.741]	0.219 [9.110]	0.219 [9.110]	PDF
40-4040BL		$0.31						PDF

Extruded T-slotted rails have a thru Core Hole feature that can be used to attach various components to the end of the profile using:

- Self-tapping / thread-forming screws (no tapping needed)
- A tap to thread the core hole for a threaded fastener

Please Note: Prices on aluminum are closely tied to the market price. This allows us to offer the best savings possible if conditions are favorable; however, it also means that our prices may increase if market conditions warrant.

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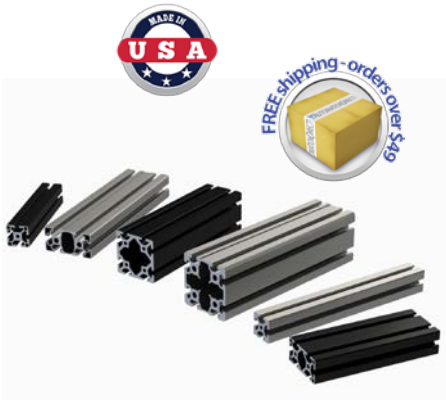
Hardness	Webster Model B 11-12
Straightness	0.0125 inch/ft [1.042 mm/m]
Twist	0.25°/ft [0.25°/305mm]

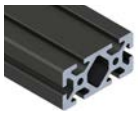
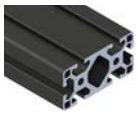


40 Series (metric) - Continued

Slot Size 8 — Core Hole Ø 6.8 mm

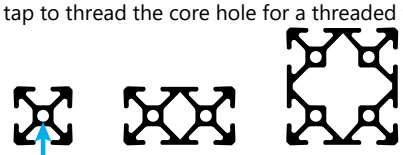
40 Series (mm): 40x40, 40x80, 80x80

Drop Lock (2°) — T-Slot Drop Lock feature improves connection strength and vibration resistance

Part Number	*Part Image*	*Price per cm*	*Profile Size*	*Weight Class*	*Weight lbs/ft [kg/m]*	*Moment of Inertia Lx (in⁴ [cm⁴])*	*Moment of Inertia Ly (in⁴ [cm⁴])*	*Drawing Link*
40-4080C		$0.54	40 x 80mm	Standard	2.925 [4.353]	.0621 [25.834]	2.846 [118.477]	PDF
40-4080B		$0.69						PDF
40-4080CL		$0.47		Light	2.482 [3.694]	0.495 [20.592]	1.760 [73.258]	PDF
40-4080BL		$0.59						PDF
40-8080C		$0.78	80 x 80mm	Standard	4.281 [6.371]	4.073 [169.520]	4.073 [169.520]	PDF
40-8080B		$0.95						PDF

Extruded T-slotted rails have a thru Core Hole feature that can be used to attach various components to the end of the profile using:

- Self-tapping / thread-forming screws (no tapping needed)
- A tap to thread the core hole for a threaded fastener



Core Hole — 2 Places — 4 Places

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Sure frame® Aluminum T-Slotted Rail

Deflection Calculations

Using the calculations below, find your approximate deflection* for a specific extrusion.
See table below for variations.

As always when calculating, use diligence and work only in either imperial or metric units at one time.

Aluminum 6063-T6 Properties	
Yield Strength	29,007 psi [200 MPa]
Tensile Strength	33,359 psi [230 MPa]
Modulus of Elasticity	10,000,000 psi [68.9 GPa]

"E" = Modulus of Elasticity

"F" = Force

"I" = Moment of Inertia

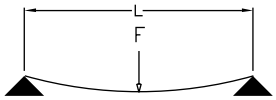
"L" = Length

"W" = Weight

****for reference only***

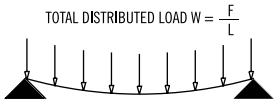
Supported Loads

CONCENTRATED LOAD AT CENTER (simply supported)



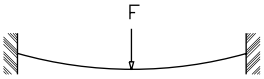
$$\text{MAX DEFLECTION} = \frac{FL^3}{48\,EI}$$

UNIFORMLY DISTRIBUTED LOAD (simply supported)



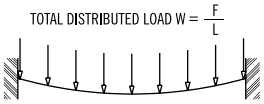
$$\text{MAX DEFLECTION} = \frac{5}{84}\,\frac{WL^4}{EI}$$

CONCENTRATED LOAD AT CENTER (between fixed supports)



$$\text{MAX DEFLECTION} = \frac{FL^3}{192\,EI}$$

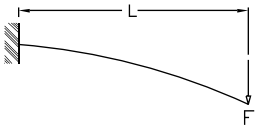
UNIFORMLY DISTRIBUTED LOAD (between fixed supports)



$$\text{MAX DEFLECTION} = \frac{WL^4}{384\,EI}$$

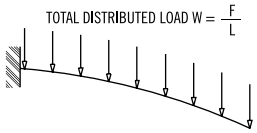
Cantilever Loads

CONCENTRATED LOAD AT CENTER (simply supported)



$$\text{MAX DEFLECTION} = \frac{FL^3}{3\,EI}$$

UNIFORMLY DISTRIBUTED LOAD (simply supported)

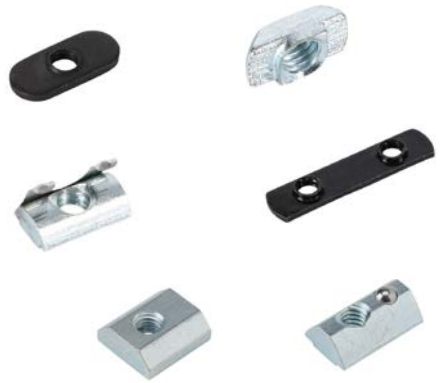


$$\text{MAX DEFLECTION} = \frac{WL^4}{8\,EI}$$

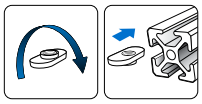
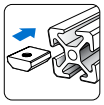
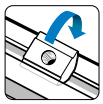
FATH® T-Slotted Rail Accessories

T-Slot Nuts

- Designed to fit into the T-slot cavity of extruded aluminum rails.
- Hammer nuts provide safe electrostatic discharging (ESD) connection.
- No machining required.
- Material: zinc plated steel

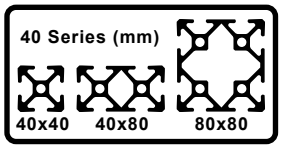


T-Slot Nuts Selection

Part Image	Nut Type	Installation	Holds Position Without Screw	ESD Connection
	Double Economy T-Nut		No	No
	Economy T-Nut			
	Hammer Nut			Yes
	Slide-In Nut			No
	Roll-In Nut with Leaf Spring		Yes	
	Roll-In Nut with Spring Loaded Ball			

40 Series T-Slot Nuts

Fits Slot Size 8



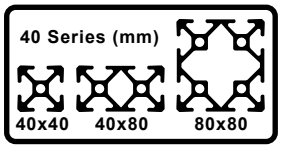
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link
161126		$8.25	Hammer Nut	10-32 UNF	10	PDF
162996		$17.50	Roll-In Nut			PDF
162903		$9.50	Slide-In Nut			PDF
151097		$9.50	Hammer Nut	1/4-20 UNC		PDF
151098		$20.00	Roll-In Nut			PDF
162997		$17.50				PDF

FATH® T-Slotted Rail Accessories

T-Slot Nuts - Continued

40 Series T-Slot Nuts - Continued

Fits Slot Size 8



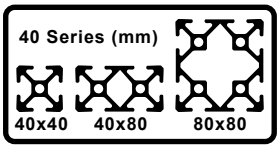
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link
162904		$9.50	Slide-In Nut	1/4-20 UNC	10	PDF
151099		$20.00	Roll-In Nut	5/16-18 UNC		PDF
162998		$17.50				PDF
161129		$8.00	Hammer Nut	M4-0.7		PDF
162999		$17.50	Roll-In Nut			PDF
161130		$8.00	Hammer Nut	M5-0.8		PDF
161120		$16.75	Roll-In Nut			PDF
163000		$17.50				PDF
151214		$9.00	Hammer Nut	M6-1.0		PDF
162884		$9.75	Slide-In Nut			PDF
151215		$19.00	Roll-In Nut			PDF
163001		$17.50				PDF

FATH® T-Slotted Rail Accessories

T-Slot Nuts - Continued

40 Series T-Slot Nuts - Continued

Fits Slot Size 8



Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link
151213		$6.00	Economy T-Nut	M8-1.25	10	PDF
148802		$5.50	Double Economy T-Nut		4	PDF
162885		$9.75	Slide-In Nut		10	PDF
151216		$19.00	Roll-In Nut			PDF
163002		$17.50				PDF

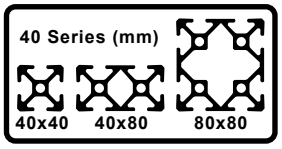
FATH® T-Slotted Rail Accessories

Fasteners

- Choose from 4 Head types in numerous lengths
- Hex socket head
- Select desired T-Slot nut style with corresponding thread size.
- Material: Black zinc plated or bright zinc plated steel, prevents corrosion better than typical black oxide coatings

40 Series Fasteners

Fits Slot Size 8



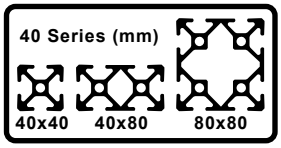
Part Number	Part Image	Price	Thread	Screw Length	Head Type	Color	Pack Quantity	Drawing Link
162994		$8.00	#8-32 UNF	3/8 in	Button head socket cap screw	Flat black	10	PDF
161073		$7.75		1/2 in	Flat head socket cap screw			PDF
162993		$7.50	#10-32 UNF	3/8 in	Button head socket cap screw			PDF
162995		$7.75		1/2 in	Socket head cap screw			PDF
161046		$4.75			Button head socket cap screw			PDF
161047		$5.00		5/8 in				PDF
161048		$5.75		3/4 in				PDF
161074		$6.25	1/4-20 UNC	1/2 in	Flat head socket cap screw			PDF
151040		$4.25			Button head socket cap screw			PDF
151041		$5.25			Flanged button head socket cap screw	Gloss black		PDF
161049		$4.75		9/16 in	Button head socket cap screw	Flat black		PDF
161075		$6.25		5/8 in	Flat head socket cap screw			PDF
161050		$4.75			Button head socket cap screw			PDF
161087		$4.00			Socket head cap screw			PDF

FATH® T-Slotted Rail Accessories

Fasteners - Continued

40 Series Fasteners - Continued

Fits Slot Size 8



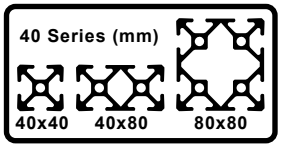
Part Number	Part Image	Price	Thread	Screw Length	Head Type	Color	Pack Quantity	Drawing Link
161051		$4.75	1/4-20 UNC	3/4 in	Button head socket cap screw	Flat black	10	PDF
161052		$5.25		1in				PDF
151100		$5.25	5/16-18 UNC	5/8 in				PDF
151101		$6.00		11/16 in	Flanged button head socket cap screw	Gloss black		PDF
161053		$6.00		1/2 in	Button head socket cap screw	Flat black		PDF
161054		$6.50		3/4 in				PDF
161055		$7.50		1in				PDF
161088		$2.25	M4-0.7	8mm	Socket head cap screw	Bright zinc		PDF
161089		$2.50		10mm				PDF
161056		$1.00			Button head socket cap screw			PDF
161076		$1.50		12mm	Flat head socket cap screw			PDF
161057		$1.25	M5-0.8	10mm	Button head socket cap screw			PDF
161090		$2.50			Socket head cap screw			PDF
161077		$1.75		12mm	Flat head socket cap screw			PDF
161091		$2.75			Socket head cap screw			PDF

FATH® T-Slotted Rail Accessories

Fasteners - Continued

40 Series Fasteners - Continued

Fits Slot Size 8



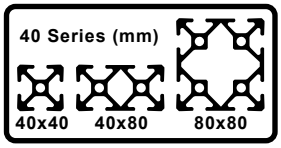
Part Number	Part Image	Price	Thread	Screw Length	Head Type	Color	Pack Quantity	Drawing Link
161058		$1.75	M5-0.8	12mm	Button head socket cap screw	Bright zinc	10	PDF
161092		$2.75	M6-1.0	10mm	Socket head cap screw			PDF
161078		$2.25		12mm	Flat head socket cap screw			PDF
161059		$2.00			Button head socket cap screw			PDF
161093		$2.75			Socket head cap screw			PDF
161079		$2.50		14mm	Flat head socket cap screw			PDF
161060		$2.25			Button head socket cap screw			PDF
161094		$3.00			Socket head cap screw			PDF
161080		$2.50		16mm	Flat head socket cap screw			PDF
161061		$2.50			Button head socket cap screw			PDF
161095		$3.00			Socket head cap screw			PDF
161062		$3.00		18mm	Button head socket cap screw			PDF
161096		$3.25			Socket head cap screw			PDF
161081		$2.75		20mm	Flat head socket cap screw			PDF
161063		$3.00			Button head socket cap screw			PDF

FATH® T-Slotted Rail Accessories

Fasteners - Continued

40 Series Fasteners - Continued

Fits Slot Size 8



Part Number	Part Image	Price	Thread	Screw Length	Head Type	Color	Pack Quantity	Drawing Link
161097		$3.25	M6-1.0	20mm	Socket head cap screw	Bright zinc	10	PDF
161064		$3.25		25mm	Button head socket cap screw			PDF
161082		$4.75	M8-1.25	12mm	Flat head socket cap screw			PDF
161065		$4.25			Button head socket cap screw			PDF
161098		$4.75			Socket head cap screw			PDF
161066		$4.50		14mm	Button head socket cap screw			PDF
161083		$5.00			Flat head socket cap screw			PDF
161099		$5.00			Socket head cap screw			PDF
161084		$5.50		16mm	Flat head socket cap screw			PDF
161100		$5.50			Socket head cap screw			PDF
161067		$4.75			Button head socket cap screw			PDF
151183		$4.75				Gloss black		PDF
151184		$5.50			Flanged button head socket cap screw			PDF
161085		$5.50		18mm	Flat head socket cap screw	Bright zinc		PDF
161068		$5.25			Button head socket cap screw			PDF

FATH® T-Slotted Rail Accessories

Fasteners - Continued

40 Series Fasteners - Continued

Fits Slot Size 8

40 Series (mm): 40x40, 40x80, 80x80

Part Number	Part Image	Price	Thread	Screw Length	Head Type	Color	Pack Quantity	Drawing Link
161101		$5.50	M8-1.25	18mm	Socket head cap screw	Bright zinc	10	PDF
151241		$4.50		20mm	Button head socket cap screw			PDF
161102		$5.75			Socket head cap screw			PDF
161086		$7.00		25mm	Flat head socket cap screw			PDF
161069		$5.25			Button head socket cap screw			PDF
161070		$8.00		40mm				PDF
118287		$2.50		25mm	Hammer head screw and flange nut		1	PDF

40 Series Self Forming / Tapping Screws

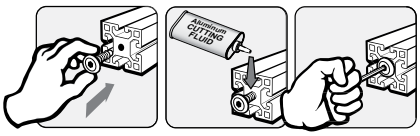
Fits 40 Series Core Hole

40 Series (mm): 40x40, 40x80, 80x80

Works with Aluminum with hole diameter 0.256" - 0.276" [6.6 - 7.0 mm]

Part Number	Part Image	Price	Thread	Screw Length	Head Type	Color	Pack Quantity	Drawing Link
161105		$17.00	S7	25mm	Self-Tapping Screw Button head socket cap	Bright zinc	10	PDF
161106		$9.25			Self-Tapping Screw Flanged button head socket cap T-40 Torx			PDF
161107		$17.00		40mm	Self-Tapping Screw Button head socket cap			PDF

Self Forming / Tapping Screw Installation



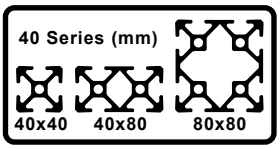
FATH® T-Slotted Rail Accessories

Connecting Components

- Connects two or three T-slot rails together
- Recommended ADC Fastener based on part feature, slot Depth and core hole
- Material: varies by part

40 Series Connecting Components

Fits Slot Size 8



Part Number	Part Image	Price	Description	Fits Profile	Material	Recommended Screw Fastener (ADC Part Number) Core Hole Attachment 1	*T-Slot Attachment 2	Pack Quantity	Drawing Link
148958		$10.00	2d Cube Connector	40 x 40mm	Die-cast aluminum	161105	161085	1	PDF
166369		$12.00							PDF
148959		$11.50	3d Cube Connector				n/a		PDF
166370		$13.00							PDF
151217		$13.50	Angle Connector				161067		PDF
166371		$16.00							PDF
151218		$13.50		40 x 80mm			161068		PDF
166372		$16.50							PDF

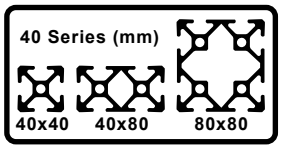
*T-Slot Nut 3 also required.

FATH® T-Slotted Rail Accessories

Connecting Components - Continued

40 Series Connecting Components - Continued

Fits Slot Size 8



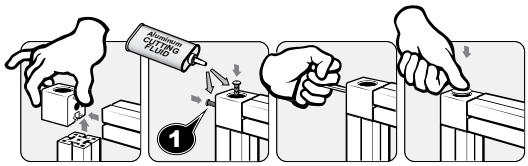
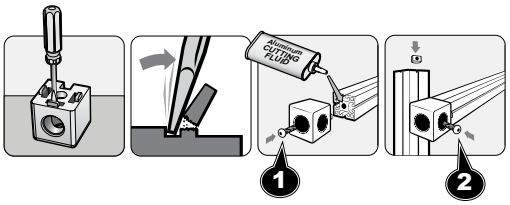
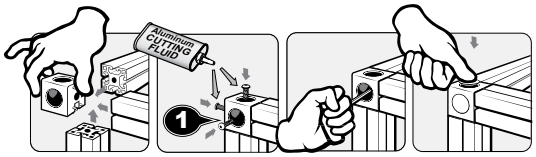
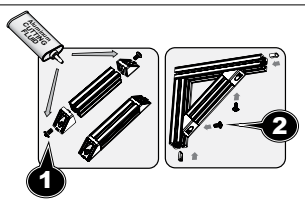
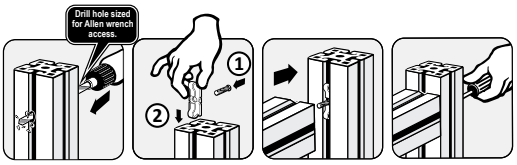
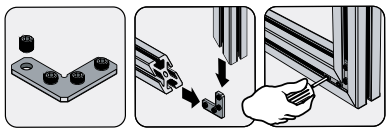
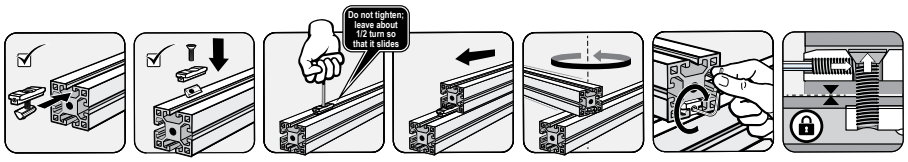
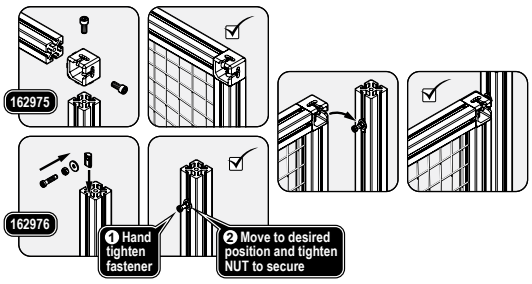
Part Number	Part Image	Price	Description	Fits Profile	Material	Recommended Screw Fastener (ADC Part Number) Core Hole Attachment 1	*T-Slot Attachment 2	Pack Quantity	Drawing Link
151102		$23.50	Duo Connector	All 40 Series	Steel	n/a	n/a	10	PDF
151103		$96.00	T-Matic Connector		Zinc plated steel				PDF
151104		$59.00	Automatic Connector		Steel				PDF
151105		$9.50	Automatic Butt Connector					1	PDF
151106		$8.50	Milling Connector		Zinc plated steel				PDF
151109		$15.50	Connecting Strip						PDF
162891		$13.00	Direct Connector		Steel		Fasteners included		PDF
162961		$11.50	Miter Connector		Steel	n/a	M8-1.25 x 8mm set screw (4) included		PDF
162975		$21.00	Clamp Profile Connector works with 162976		Die-cast zinc	161105 (2) included with kit	n/a		PDF
162976		$5.50	Mounting Element works with 162975		Steel	n/a	Fasteners included		PDF
163009		$13.25	Screw Connector		Zinc plated steel	Designer's choice	n/a	10	PDF

***T-Slot Nut also required.**

FATH® T-Slotted Rail Accessories

Connecting Components - Continued

Connecting Components Installation

Core Hole Installation	T-Slot Installation
2D Cube Connector	
	
3D Cube Connector	
	n/a
Angle Connector	
	
Screw Connector	
	
Miter Connector	
	
Direct Connector	
	
Clamp Profile Connector	
	

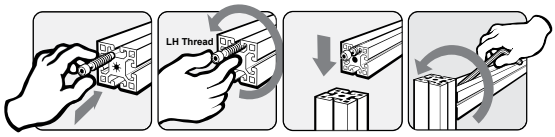
FATH® T-Slotted Rail Accessories

Connecting Components - Continued

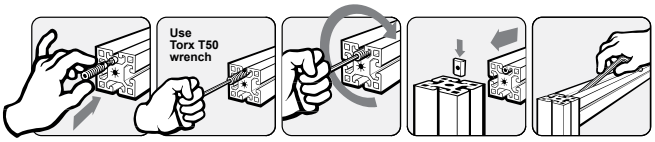
Connecting Components Installation

T-Slot Installation

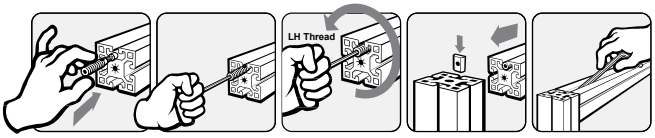
Duo Connector



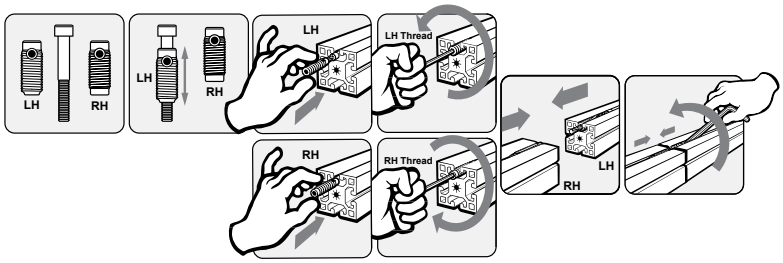
T-matic Connector



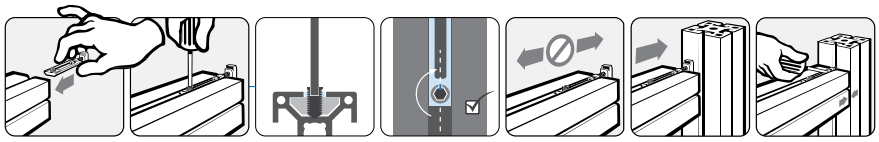
Automatic Connector



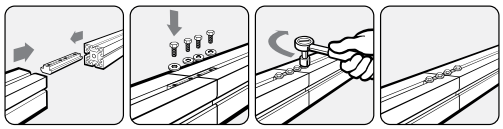
Automatic Butt Connector



Milling Connector



Connecting Strip



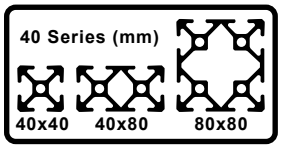
FATH® T-Slotted Rail Accessories

Joining Plates

- Connects two or more T-slot rails together.
- Recommended ADC Fastener based on part feature and slot depth.
- Material: Anodized aluminum

40 Series Joining Plates

Fits Slot Size 8



Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Drawing Link
148850		$5.75	Straight Flat Plate	151183 or 151184	1	PDF
166373		$7.00				PDF
162986		$8.00				PDF
166374		$11.00				PDF
148856		$12.00				PDF
166375		$14.00				PDF
148853		$11.50	Square Flat Plate			PDF
166376		$14.00				PDF
148858		$12.00	Rectangular Flat Plate			PDF
166377		$15.00				PDF
151219		$14.50	Flat Plate			PDF
166378		$17.00				PDF

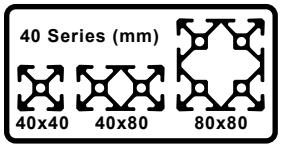
*T-Slot Nut also required.

FATH® T-Slotted Rail Accessories

Joining Plates - Continued

40 Series Joining Plates - Cont'd

Fits Slot Size 8



Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Drawing Link
151220		$16.50	T-Shaped Flat Plate	151183 or 151184	1	PDF
166379		$21.00				PDF
151221		$27.50	T-Shaped Flat Plate			PDF
166380		$34.00				PDF

*T-Slot Nut also required.

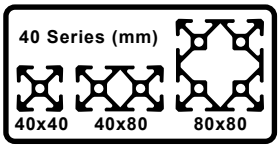
FATH® T-Slotted Rail Accessories

Brackets

- Connects two T-slot rails together at a 90° angle
- Recommended ADC Fastener based on part feature and slot depth
- Material: varies by part

40 Series Brackets

Fits Slot Size 8



Part Number	Part Image	Price	Description	Recommended Screw Fastener (ADC Part Number) Core Hole Attachment 1	Recommended Screw Fastener (ADC Part Number) *T-Slot Attachment 2	Pack Quantity	Material	Drawing Link
151125		$7.75	Angle Bracket	n/a	151241	1	Die-cast aluminum	PDF
166322		$9.00						PDF
151126		$11.50			161068		Die-cast zinc	PDF
166323		$13.00						PDF
151222		$4.25	Inside Corner Bracket		151183 or 151184		Anodized aluminum	PDF
166381		$5.00						PDF
151223		$6.25	Wide Inside Corner Bracket					PDF
166382		$7.00						PDF
151224		$6.25	Tall Inside Corner Bracket					PDF
166383		$7.00						PDF
151225		$11.50	Inside Corner Bracket					PDF
166384		$14.00						PDF

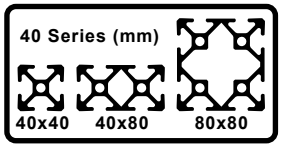
*T-Slot Nut also required.

FATH® T-Slotted Rail Accessories

Brackets - Continued

40 Series Brackets - Cont'd

Fits Slot Size 8



Part Number	Part Image	Price	Description	Recommended Screw Fastener (ADC Part Number) Core Hole Attachment 1	Recommended Screw Fastener (ADC Part Number) *T-Slot Attachment 2	Pack Quantity	Material	Drawing Link
151226		$3.75	Gusseted Inside Corner Bracket	n/a	151183 or 151184	1		PDF
166385		$4.00						PDF
151227		$9.00	Tall Gusseted Inside Corner Bracket					PDF
166386		$11.00						PDF
148911		$6.75	Wide Gusseted Inside Corner Bracket					PDF
166387		$8.00						PDF
151228		$14.50	Gusseted Inside Corner Bracket					PDF
166388		$17.00						PDF
151229		$29.50	Pivot Joint	161105	161066		Die-cast zinc	PDF
166389		$36.00						PDF
151230		$39.50	Pivot Joint With Locking Handle					PDF
166390		$47.00						PDF

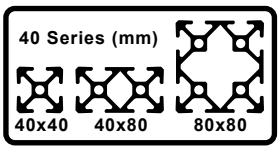
***T-Slot Nut also required.**

FATH® T-Slotted Rail Accessories

Brackets - Continued

40 Series Brackets - Continued

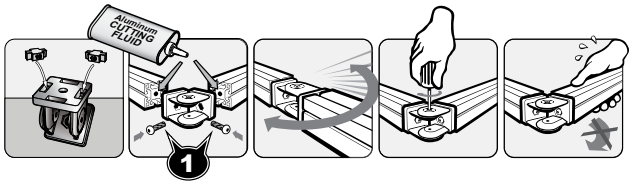
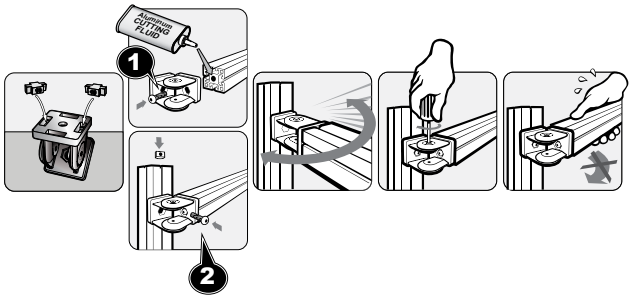
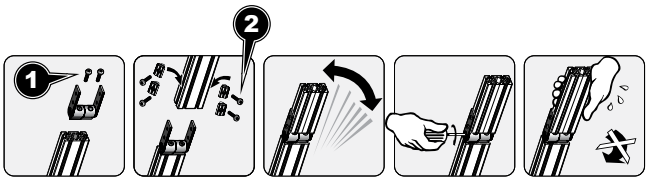
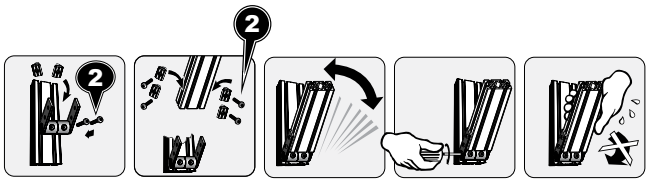
Fits Slot Size 8



Part Number	Part Image	Price	Description	Recommended Screw Fastener (ADC Part Number) Core Hole Attachment ❶	*T-Slot Attachment ❷	Pack Quantity	Material	Drawing Link
163015		$31.25	1-Slot Pivot Joint	161105	161068	1	Die-cast zinc/die-cast aluminum/ nylon	PDF
163018		$41.00	2-Slot Pivot Joint					PDF

*T-Slot Nut also required.

Brackets Installation

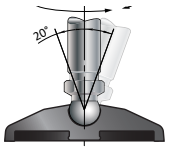
Core Hole Installation	T-Slot Installation
Pivot Joint*	
	
Pivot Joint	
	

*For 45 series installation, the 10mm embossed key should face toward the aluminum extrusion upon assembly.

FATH® T-Slotted Rail Accessories

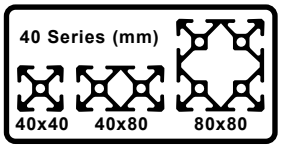
Bases

- Recommended ADC Fastener based on part features and extrusion core hole
- Material: varies by part



40 Series Bases

Fits Slot Size 8



Part Number	Part Image	Price	Diameter	Description	Fits	Load Rating kg [lb]	Recommended Screw Fastener (ADC Part Number) Core Hole Attachment 1	Recommended Screw Fastener (ADC Part Number) *T-Slot Attachment 2	Pack Quantity	Material	Drawing Link
151232		$16.50	n/a	M12-1.75 Transport/Base Plate	40 x 80mm	n/a	161105 (2) included with kit	n/a	1	Die-cast zinc	PDF
151233		$23.00			80 x 80mm		161105 (4) included with kit				PDF
162948		$20.00		M16-2.0 Transport/Base Plate	40 x 80mm		161105 (2) included with kit				PDF
162949		$25.00			80 x 80mm		161105 (4) included with kit				PDF
162950		$25.00		M20-2.5 Transport/Base Plate							PDF
151231		$4.50		M12-1.75 x 66mm Swivel Foot Threaded Rod with 15mm ball	Transport/Base Plate 151232 or 151233	770 [1698]**	n/a			Zinc plated steel	PDF
162938		$6.50		M16-2.0 x 100mm Swivel Foot Threaded Rod with 15mm ball	Transport/Base Plate 162948 or 162949	1450 [3197]					PDF
162939		$11.00		M20-2.5 x 150mm Swivel Foot Threaded Rod with 15mm ball	Transport/Base Plate 162950	2430 [5357]					PDF
151068		$4.00	1.57 in [39.0 mm]	Swivel Base With Anti-Slip Plate	Any 15mm ball Threaded Rod	900 [1984]				Nylon	PDF
151071		$9.50				3000 [6614]				Die-cast zinc	PDF

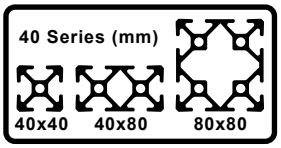
***T-Slot Nut also required.**
****Based on installation with Transport / Base Plate**
Load rating of a swivel foot assembly is based on the part with the lowest load rating, typically the threaded rod.
Example:
Threaded rod load rating = 210kg [463lb]
Swivel base load rating = 3000kg [6614lb]
Swivel foot assembly load rating = 210kg [463lb]

FATH® T-Slotted Rail Accessories

Bases - Continued

40 Series Bases - Continued

Fits Slot Size 8



Part Number	Part Image	Price	Diameter	Description	Fits	Load Rating kg [lb]	Recommended Screw Fastener (ADC Part Number) Core Hole Attachment 1	Recommended Screw Fastener (ADC Part Number) *T-Slot Attachment 2	Pack Quantity	Material	Drawing Link
151069		$6.00	3.11 in [79.0 mm]	Swivel Base With Anti-Slip Plate	Any 15mm ball Threaded Rod	900 [1984]	n/a	n/a	1	Nylon	PDF
151070		$6.00									PDF
151255		$10.00	3.90 in [99.0 mm]			900 [1984]					PDF
151256		$10.00									PDF
151257		$24.00				3500 [7716]				Die-cast zinc	PDF
151258		$24.00									PDF
162933		$12.50	See 2D drawing	Extended Swivel Base	Any 15mm ball Threaded Rod	1000 [2204]		n/a		Nylon	PDF
162934		$27.00				3000 [6613]				Die-cast zinc	PDF

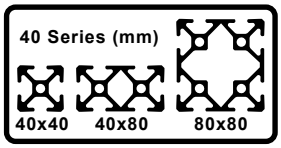
***T-Slot Nut also required.**
Load rating of a swivel foot assembly is based on the part with the lowest load rating, typically the threaded rod.
Example:
Threaded rod load rating = 210kg [463lb]
Swivel base load rating = 3000kg [6614lb]
Swivel foot assembly load rating = 210kg [463lb]

FATH® T-Slotted Rail Accessories

Bases - Continued

40 Series Bases - Continued

Fits Slot Size 8

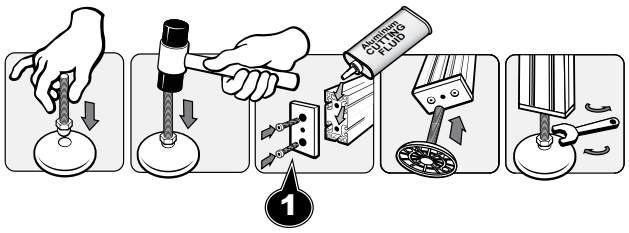


Part Number	Part Image	Price	Diameter	Description	Fits	Load Rating kg [lb]	Recommended Screw Fastener (ADC Part Number) Core Hole Attachment 1	Recommended Screw Fastener (ADC Part Number) *T-Slot Attachment 2	Pack Quantity	Material	Drawing Link
162889		$24.50	n/a	Foot Console	40 x 40mm, 40 x 80mm	n/a	n/a	161068	1	Die-cast aluminum	PDF
166391		$33.00									PDF
162890		$25.50			40 x 80mm, 80 x 80mm						PDF
166392		$35.00									PDF
162960		$47.00		Support Bracket				M8-1.25 x 30mm (not sold by ADC)			PDF
162958		$11.50		Floor Bracket	All 40 Series			161068		Anodized aluminum	PDF

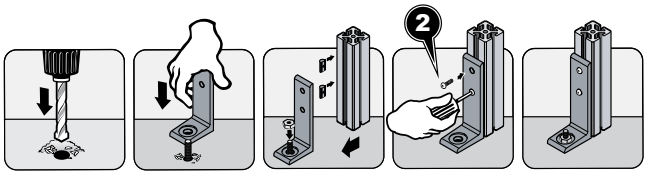
*T-Slot Nut also required.

Bases Installation

Swivel Foot



Floor Bracket



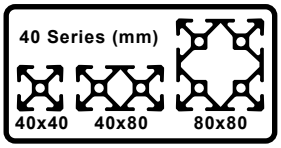
FATH® T-Slotted Rail Accessories

Casters

- Recommended ADC Fastener based on part feature and core hole
- Material: varies by part

40 Series Casters

Fits Slot Size 8



Part Number	Part Image	Price	Description	Requires	Load Rating kg [lb]	Recommended Screw Fastener (ADC Part Number) Core Hole Attachment 1	Recommended Screw Fastener (ADC Part Number) *T-Slot Attachment 2	Pack Quantity	Material	Drawing Link
151134		$47.00	Swivel Caster (requires Swivel Caster Adapter Plate 151136)	n/a	122 [269]	161107	n/a	1	Thermoplastic polyurethane/ nylon/steel	PDF
151135		$40.50	Fixed Caster (requires Fixed Fixed Caster Adapter Plate 161040)			161106				PDF
151136		$4.50	3 Swivel Caster Adapter Plate	Requires Swivel Caster 151134)	n/a	n/a			Steel	PDF
161040		$3.50	3 Fixed Fixed Caster Adapter Plate	Requires Fixed Caster 151135					Die-cast zinc	PDF
151137		$62.00	Swivel Caster	n/a	122 [269]		161053		Thermoplastic polyurethane/ nylon/steel	PDF
151138		$49.00	Fixed Caster							PDF
163010		$40.00	Leveling Caster	Transport / Base Plate with M12-1.75 threaded hole	250 [551]		n/a		Die-cast aluminum/ steel/nylon/ rubber	PDF
163011		$52.00			500 [1102]					PDF
163012		$41.00		n/a	250 [551]		161060			PDF
163013		$56.00			500 [1102]					PDF

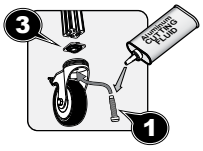
*T-Slot Nut also required

FATH® T-Slotted Rail Accessories

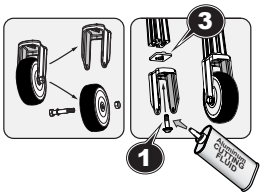
Casters - Continued

Caster Installation

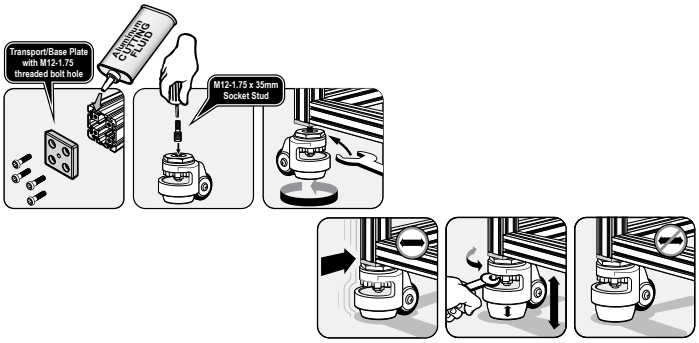
Swivel Caster



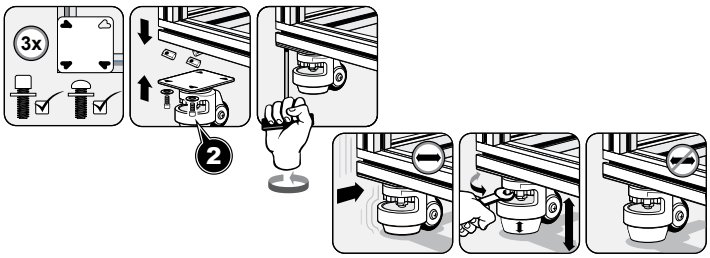
Fixed Caster



Leveling Caster with bolt hole thread



Leveling Caster with mounting plate



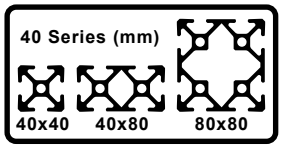
FATH® T-Slotted Rail Accessories

Hinges

- Recommended ADC Fastener based on part feature and slot depth
- Material: varies by part

40 Series Hinges

Fits Slot Size 8



Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Material	Drawing Link
151139		$7.25	Left-Hand Detachable Combination Hinge	161080	1	Fiberglass reinforced plastic	PDF
151140		$7.25	Right-Hand Detachable Combination Hinge				PDF
151141		$7.25	Non-Detachable Combination Hinge				PDF
151142		$12.50	Non-Detachable Combination Hinge With Locking Lever				PDF
151143		$18.00	Left-Hand Detachable Combination Hinge			Die-cast aluminum	PDF
151144		$18.00	Right-Hand Detachable Combination Hinge				PDF
151145		$18.00	Non-Detachable Combination Hinge				PDF

*T-Slot Nut also required

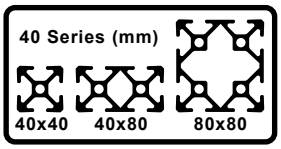
FATH® T-Slotted Rail Accessories

Panel and Door Elements

- Recommended ADC Fastener based on part feature and slot depth
- Material: varies by part

40 Series Panel and Door Elements

Fits Slot Size 8



Part Number	Part Image	Price	Description	Recommended Screw Fastener (ADC Part Number) Core Hole Attachment ❶	*T-Slot Attachment ❷	Pack Quantity	Material	Drawing Link
151146		$6.00	Bridge Handle	n/a	161063	1	Fiberglass reinforced plastic	PDF
151147		$6.00			161067			PDF
151148		$6.25	Cover Cap ❸		n/a			PDF
151149		$6.50	Comfort Handle		161068			PDF
151150		$2.25	Cover Cap ❸		n/a			PDF
151151		$12.50	Comfort Handle		161054			PDF
151152		$3.00	Cover Cap ❸		n/a			PDF
151153		$33.50	Machine Handle		161099			PDF
151154		$47.00	Compact Slam Latch		161061		Die-cast aluminum	PDF
151155		$58.00	Compact Sliding Door Latch					PDF
162971		$33.00	Sliding Door Guide	Fasteners included	n/a		Die-cast aluminum/nylon	PDF
151156		$37.00	Emergency Opener	n/a	161060		Fiberglass reinforced plastic	PDF

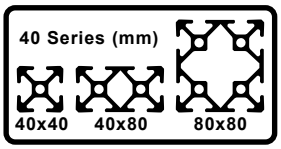
*T-Slot Nut also required

FATH® T-Slotted Rail Accessories

Panel and Door Elements - Continued

40 Series Panel and Door Elements - Continued

Fits Slot Size 8



Part Number	Part Image	Price	Description	Recommended Screw Fastener (ADC Part Number) Core Hole Attachment 1	*T-Slot Attachment 2	Pack Quantity	Material	Drawing Link
151157		$7.25	Ball Catch	n/a	161063	1	Fiberglass reinforced plastic	PDF
151158		$14.50	Double Ball Catch		161076		Brass	PDF
151159		$23.00	Door Latch		161061		Die-cast zinc	PDF
162963		$8.50	Magnetic Catch		161063		Nylon/steel	PDF
162913		$5.00	Panel Holder		161068		Anodized aluminum	PDF
162918		$6.00						PDF
162924		$5.75	Panel Mount Block		Fasteners included		Lacquered aluminum	PDF
162925		$5.75					Powder-coated aluminum	PDF
162928		$525.00	Sealing Profile		n/a		Nitrile rubber	PDF
162977		$8.50	Hanger		161059	1	Die-cast zinc	PDF
162978		$3.00	Panel Uni-Block		n/a	10	Nylon	PDF
162979		$3.00						PDF

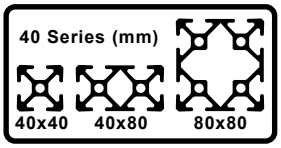
*T-Slot Nut also required

FATH® T-Slotted Rail Accessories

Panel and Door Elements - Continued

40 Series Panel and Door Elements - Continued

Fits Slot Size 8

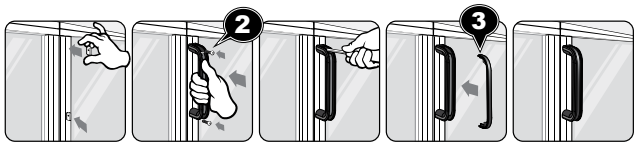


Part Number	Part Image	Price	Description	Recommended Screw Fastener (ADC Part Number) Core Hole Attachment 1	*T-Slot Attachment 2	Pack Quantity	Material	Drawing Link
151160		$58.00	Sealing Strip		n/a	2	PVC/TPE	PDF
151163		$25.00	Cover Profile			1	Nitrile rubber	PDF
151165		$91.00				25	Polypropylene	PDF
151164		$115.00	Cover And Reduction Profile					PDF

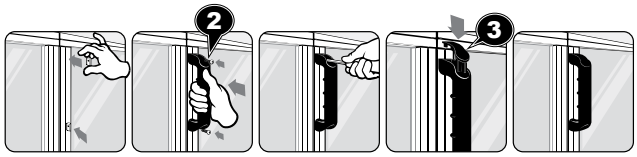
*T-Slot Nut also required

Panel and Door Elements Installation

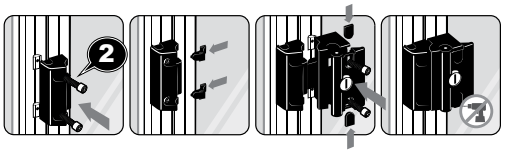
Bridge Handle and Cover Cap



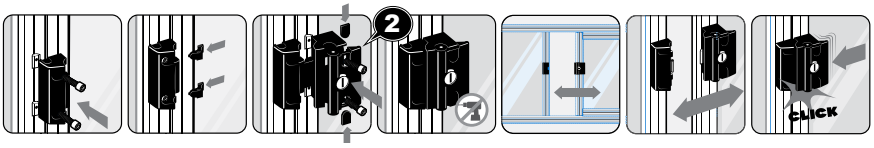
Comfort Handle and Cover Cap



Slam Latch



Sliding Door Latch

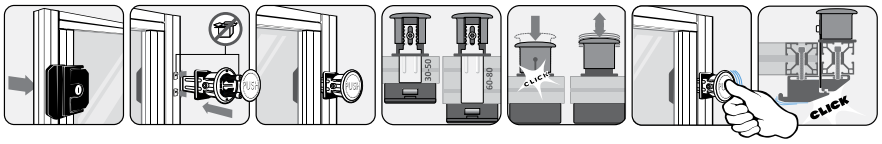


FATH® T-Slotted Rail Accessories

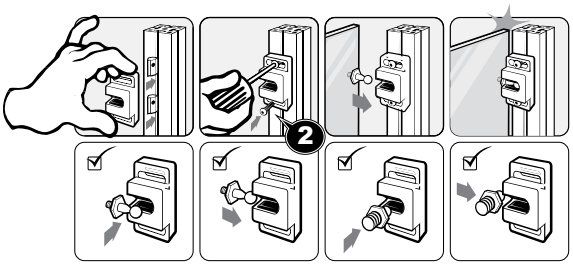
Panel and Door Elements - Continued

Panel and Door Elements Installation - Continued

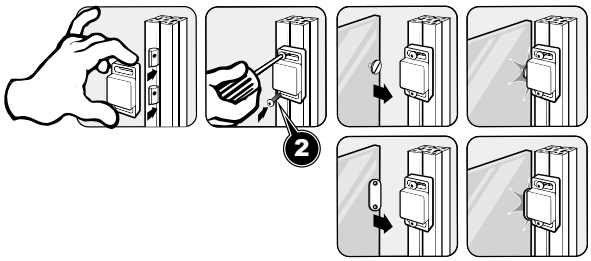
Emergency Opener



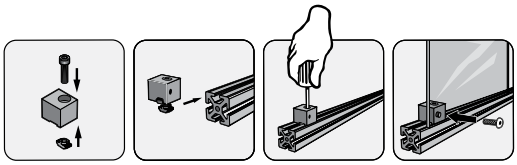
Ball Catch



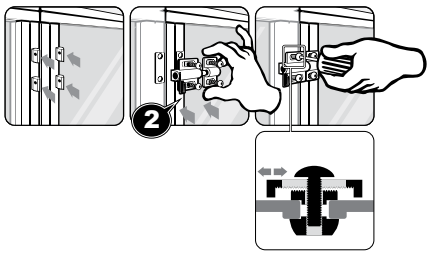
Magnetic Catch



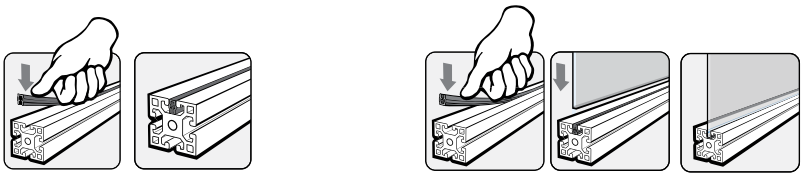
Panel Mount Block



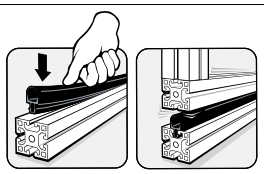
Door Latch



Cover and Reduction Profile



Sealing Profile

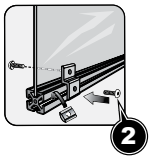


FATH® T-Slotted Rail Accessories

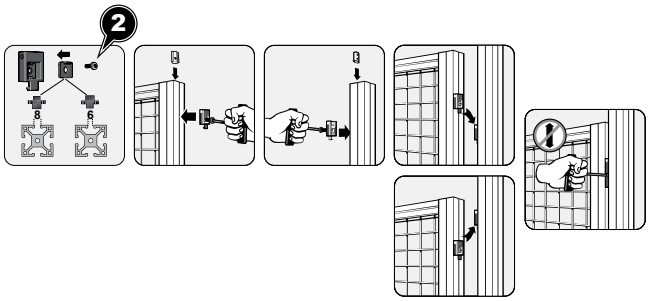
Panel and Door Elements - Continued

Panel and Door Elements Installation - Continued

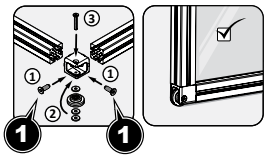
Panel Holder



Hanger



Sliding Door Guide



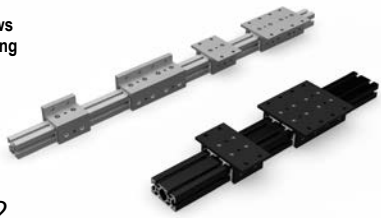
FATH® T-Slotted Rail Accessories

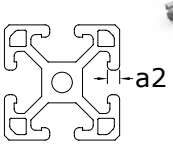
Slides and Rollers

Linear Bearings

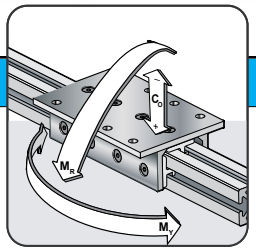
- No Shimming required!
- Verified fit with SureFrame 15 & 40 Series
- Static Load rating (Co) up to 4,000 N (900 lbf)
- Single and Double Flange Styles
- Available in Black or Silver
- Optional Brake Assemblies

Adjust side screws for optimum sliding performance



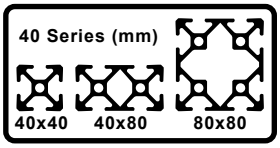


Note: Not all Slot size 8 profiles are made the same, so it is important to confirm that the "a2" dimension of the profile is 3.0-4.5mm for adequate engagement and ultimate slide performance.



40 Series Slides and Rollers

Fits Slot Size 8



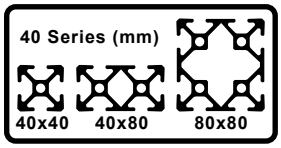
Part Number	Part Image	Price	Description	Fits	Pack Quantity	Load Ratings: Static (Co) N[lbf]	Load Ratings: Reverse Static (-Co) N[lbf]	Load Ratings: Roll Moment (Mr) N-m[lbf-ft]	Load Ratings: Yaw Moment (My) N-m[lbf-ft]	Material	Drawing Link
166393		$63.00	3-slot, double flange, short linear bearing	40 x 40mm, 40 x 80mm	1	1000 [225]	500 [112]	40 [29]	150 [111]	Aluminum/ die-cast zinc/ polyoxymethylene (POM)	PDF
166394		$63.00									PDF
166395		$126.00	3-slot, double flange, long linear bearing			2000 [450]	1000 [225]	80 [59]	200 [147]		PDF
166396		$130.00									PDF
166397		$80.00	4-slot, double flange, short linear bearing	40 x 80mm, 80 x 80mm				50 [37]	150 [111]		PDF
166398		$84.00									PDF
166399		$157.00	4-slot, double flange, long linear bearing			4000 [889]	2000 [450]	100 [74]	200 [147]		PDF
166400		$168.00									PDF
166401		$60.00	3-slot, single flange, short linear bearing	40 x 40mm, 80 x 80mm		1000 [225]	500 [112]	40 [29]	150 [111}		PDF
166402		$63.00									PDF
166403		$120.00	3-slot, single flange, long linear bearing			2000 [450]	1000 [225]	80 [59]	200 [147]		PDF
166404		$126.00									PDF

FATH® T-Slotted Rail Accessories

Slides and Rollers - Continued

40 Series Slides and Rollers - Cont'd

Fits Slot Size 8



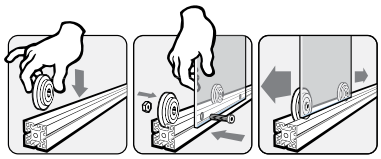
Part Number	Part Image	Price	Description	Fits	Pack Quantity	Recommended Screw Fastener T-Slot Attachment	Material	Drawing Link
166349		$45.00	Cam Lever Brake	All 40 Series Linear Bearings	1	n/a	Plastic/steel	PDF
166350		$28.00	L-Handle Brake					PDF
151168		$18.00	Slider	n/a		Fasteners included	Rubber/plastic/ steel	PDF
151169		$36.00	Slider With Clamp Lever					PDF
148974		$9.50	Roller			n/a	Nylon	PDF
151166		$4.50	Slider				Glass-filled nylon	PDF
151089		$4.50	Snap Hook	Slider 151166			Zinc plated steel	PDF
163020		$14.50	Roller Element With Guide	All 40 Series		Fasteners included	Thermoplastic polyurethane/ nylon/steel	PDF
163021		$14.50	Roller Element Without Guide					PDF

FATH® T-Slotted Rail Accessories

Slides and Rollers - Continued

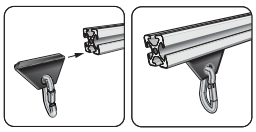
Slides and Rollers Installation

Roller

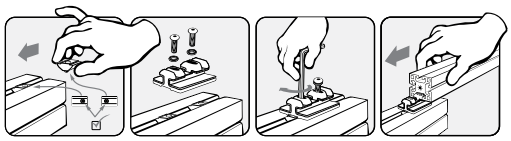


Bolt and nut not included and not available from AutomationDirect

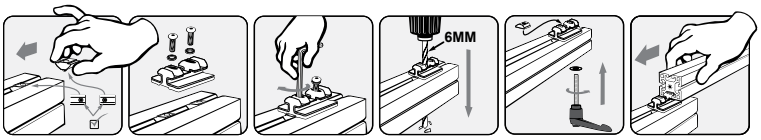
Slider and Snap Hook



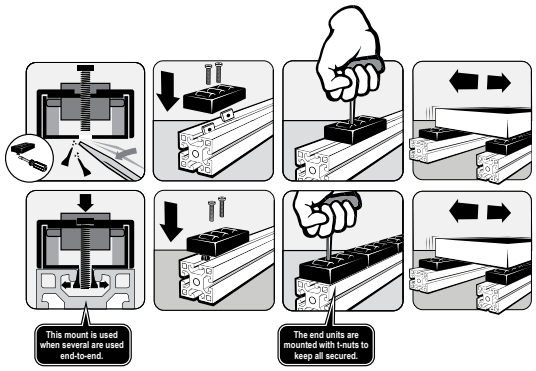
Slider



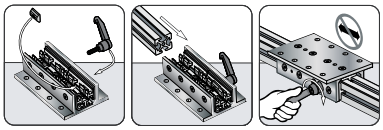
Slider with Clamp Lever



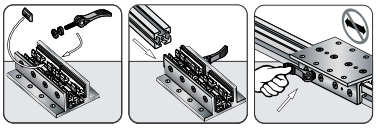
Roller Element



L-Handle Brake



Cam Lever Brake



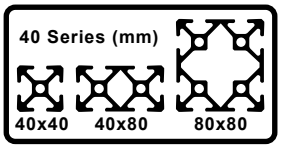
FATH® T-Slotted Rail Accessories

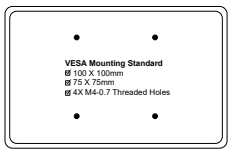
Monitor Mounts

40 Series Monitor Mounts

- Fits monitors with VESA mounting standard
- Durable steel construction
- Mounting hardware included for several mounting locations

Fits Slot Size 8



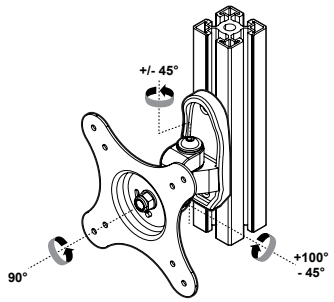


Part Number	Part Image	Price	Description	Load Rating kg [lb]	Pack Quantity	Installation Instructions Link	Drawing Link
162893		$42.00	Swivel Monitor Mount	15 [33.1]	1	PDF	PDF
162894		$50.00				PDF	PDF
162895		$58.00				PDF	PDF
162896		$92.00	Monitor Mounting Joint			PDF	PDF
162897		$92.00	Monitor Holder			PDF	PDF
162899		$325.00	4-Axis Mounting Support	10 [22.0]		PDF	PDF
162900		$394.00	5-Axis Mounting Support			PDF	PDF
162901		$630.00	4-Axis Workstation	8 [17.6]		PDF	PDF

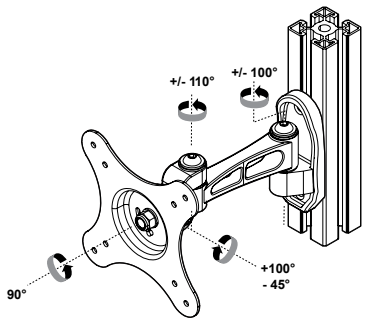
FATH® T-Slotted Rail Accessories

Monitor Mounts - Continued

Monitor Mounts Adjustments



162893



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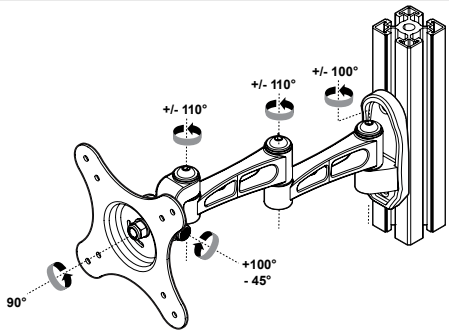

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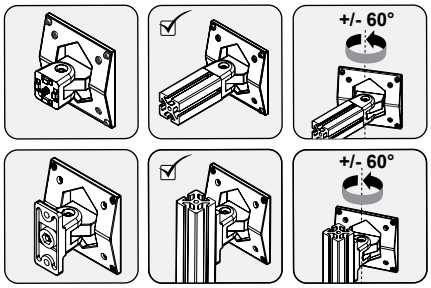

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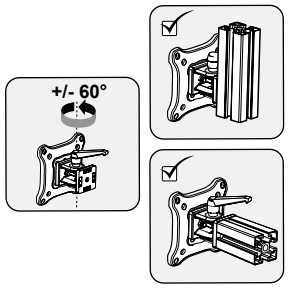

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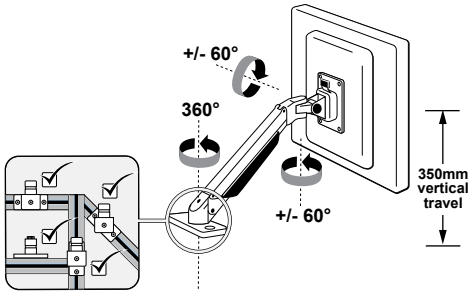

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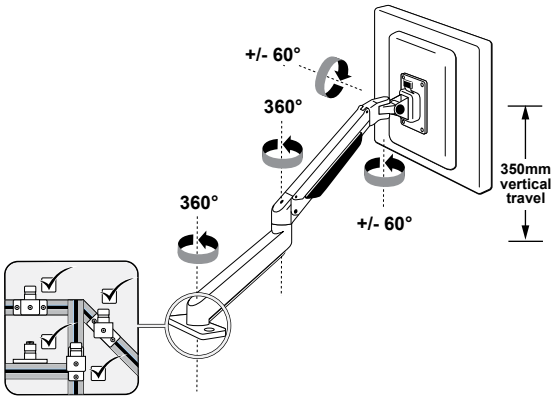
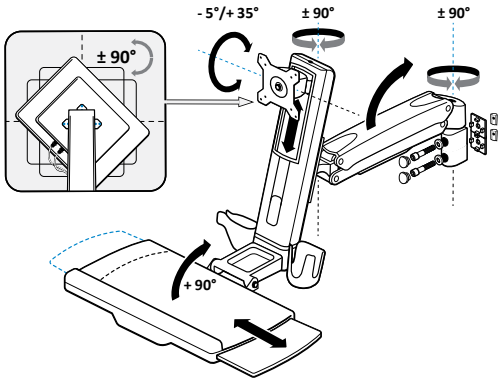


162900



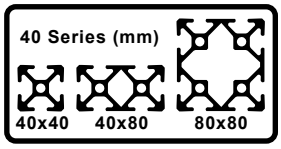
162901

FATH® T-Slotted Rail Accessories

Workstation Components

40 Series Workstation Components

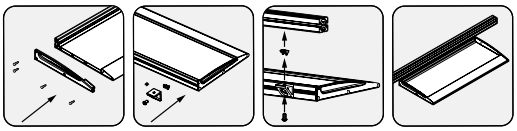
Fits Slot Size 8



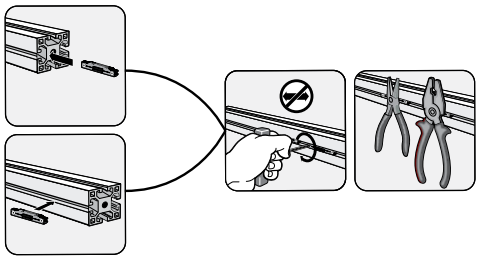
Part Number	Part Image	Price	Description	Load Rating kg [lb]	Pack Quantity	Material	Drawing Link
162902		$185.00	Keyboard Holder (requires mounting solution, designer's choice)	n/a	1	Aluminum/nylon	PDF
162906		$8.00	Magnetic Holder			Nylon/steel	PDF
162909		$5.50	Top Angle Clamp			Nylon/steel	PDF
162964		$9.00	Grab Tray			Nylon	PDF
162965		$2.00	Label Clip			PVC	PDF

Workstation Components Installation

Keyboard Holder (mounting example)

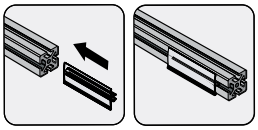


Magnetic Holder



Grab Tray

Label Clip

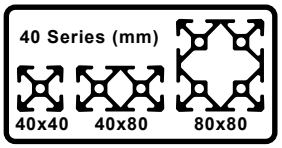


FATH® T-Slotted Rail Accessories

Wire Management

40 Series Wire Management

Fits Slot Size 8

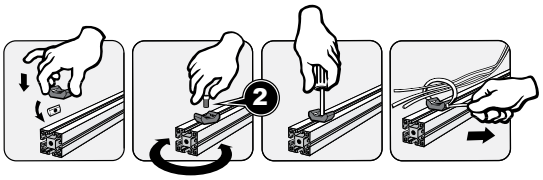


Part Number	Part Image	Price	Description	Pack Quantity	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Material	Drawing Link
151162		$93.00	Conduit Cover 2000mm long	2	n/a	Polypropylene	PDF
151174		$15.50	Cross Cable Binding Block	10		Nylon	PDF
151175		$64.00	Hook And Loop			Glass-filled nylon/ polypropylene	PDF
151176		$38.50	Clip Cable Binder With Hammer			Nylon/rubber	PDF
151177		$28.50	Ground Connector	1	Fasteners included	Glass-filled nylon/ copper/steel	PDF
151178		$4.00	Grounding Terminal			Steel/brass	PDF
162982		$7.50	Universal Cable Binder Block	10	161058	Nylon	PDF

*T-Slot Nut also required

Wire Management Installation

Universal Cable Binder Block

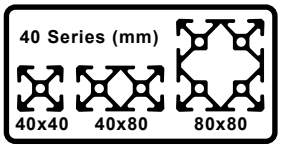


FATH® T-Slotted Rail Accessories

Miscellaneous Accessories

40 Series Miscellaneous Accessories

Fits Slot Size 8



Part Number	Part Image	Price	Description	Requires	Fits Profile	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Pack Quantity	Material	Drawing Link
151234		$16.50	End Cap	n/a	40 x 40mm	n/a	10	Glass-filled nylon	PDF
151235		$20.50			40 x 80mm				PDF
151236		$32.00			80 x 80mm				PDF
151091		$6.00	Stop Bumper		All 40 Series		1	Rubber/zinc-plated steel	PDF
151170		$9.00							PDF
162973		$3.25	Sensor Mounting Block for 8mm proximity sensor		All 40 Series	BHCS M4-0.7 x 25mm (not sold by ADC)		Nylon	PDF
162974		$3.25	Sensor Mounting Block for 12mm proximity sensor						PDF
162929		$252.00	Side Protection Profile			n/a	5	Thermoplastic rubber	PDF
162930		$284.00	Corner Protection Profile						PDF
162931		$28.00	Cover Cap for Side	162929 or 162930			10		PDF
162932		$21.00	Cover Cap for Corner	162930					PDF

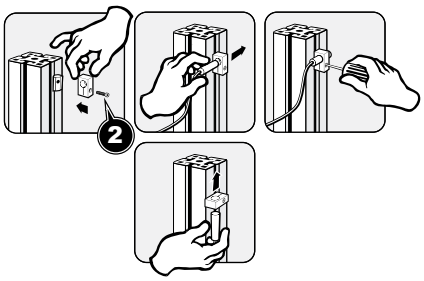
*T-Slot Nut also required

FATH® T-Slotted Rail Accessories

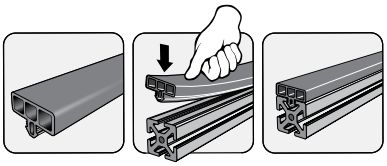
Miscellaneous Accessories - Continued

Workstation Components Installation

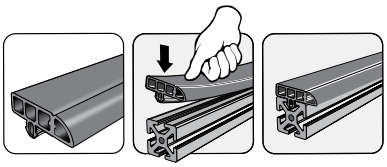
Sensor Mounting Block



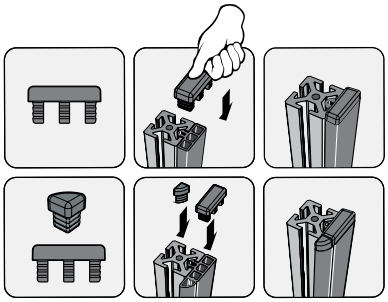
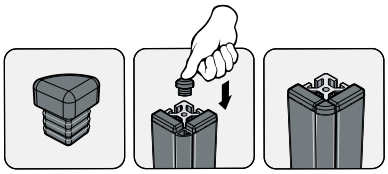
Side Protection Profile



Corner Protection Profile



Cover Cap for Side



Cover Cap for Corner