



Aluminum T-Slotted Rail

15 Series Fractional T-Slotted Aluminum Rail


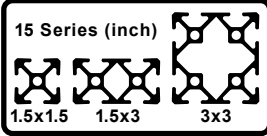


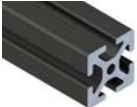



SureFrame™ T-slotted aluminum rails are extruded exclusively for AutomationDirect, with features, quality, and performance you expect. SureFrame T-slotted rails are compatible with other popular brands.

- Cut to length in 0.001 inch increments
- Minimum cut length: 6"
- Maximum cut length: 90"
- Cut accuracy: +/- 0.006"
- 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]



15 Series (inch)								
		Core Hole Ø 0.27"				 Drop Lock <p>T-Slot Drop Lock feature improves connection strength and vibration resistance</p>		
Part Number	Part Image	Price per inch	Profile Size	Weight Class	Weight lbs/ft [kg/m]	Moment of Inertia Lx (in ⁴ [cm ⁴])	Moment of Inertia Ly (in ⁴ [cm ⁴])	Drawing Link
1515C		\$0.56	1.5 x 1.5in	Standard	1.404 [2.089]	0.260 [10.816]	0.260 [10.816]	PDF
1515B		\$0.91						PDF
1515CL		\$0.45		Light	1.093 [1.627]	0.186 [7.738]	0.186 [7.738]	PDF
1515BL		\$0.76						PDF
1515CUL		\$0.42		Ultra-light	1.029 [1.531]	0.174 [7.238]	0.174 [7.238]	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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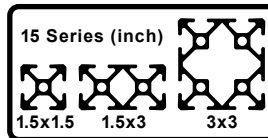
Properties	
Material	Aluminum 6063-T6
Finish	Clear or Black Anodize
Hardness	Webster Model B 11-12
Straightness	0.0125 inch/ft [1.042 mm/m]
Twist	0.25°/ft [0.25°/305mm]



15 Series (inch) - Continued



Core Hole Ø 0.27"



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

Part Number	Part Image	Price per inch	Profile Size	Weight Class	Weight lbs/ft [kg/m]	Moment of Inertia Lx (in ⁴ [cm ⁴])	Moment of Inertia Ly (in ⁴ [cm ⁴])	Drawing Link
1530C		\$1.01	1.5 x 3in	Standard	2.526 [3.759]	0.572 [23.795]	2.138 [88.982]	PDF
1530B		\$1.53						PDF
1530CL		\$0.86		Light	2.093 [3.115]	0.408 [16.973]	1.430 [59.529]	PDF
1530BL		\$1.32						PDF
3030C		\$1.62	3 x 3in	Standard	4.058 [6.039]	3.377 [140.566]	3.377 [140.566]	PDF
3030B		\$2.30						PDF

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- A tap to thread the core hole for a threaded fastener



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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.

"E" = Modulus of Elasticity

"F" = Force

"I" = Moment of Inertia

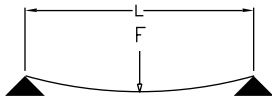
"L" = Length

"W" = Weight

**for reference only*

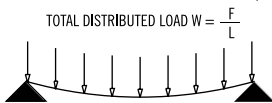
Supported Loads

CONCENTRATED LOAD AT CENTER (simply supported)



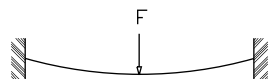
$$\text{MAX DEFLECTION} = \frac{FL^3}{48 EI}$$

UNIFORMLY DISTRIBUTED LOAD (simply supported)



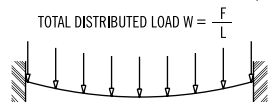
$$\text{MAX DEFLECTION} = \frac{5}{84} \frac{WL^4}{EI}$$

CONCENTRATED LOAD AT CENTER (between fixed supports)



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

UNIFORMLY DISTRIBUTED LOAD (between fixed supports)



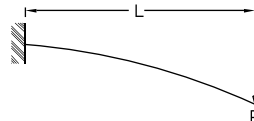
$$\text{MAX DEFLECTION} = \frac{WL^4}{384 EI}$$

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]

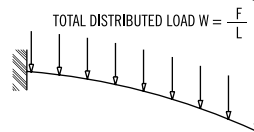
Cantilever Loads

CONCENTRATED LOAD AT CENTER (simply supported)



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

UNIFORMLY DISTRIBUTED LOAD (simply supported)


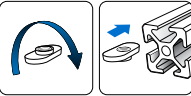










$$\text{MAX DEFLECTION} = \frac{WL^4}{8 EI}$$

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	
	Economy T-Nut				
	Hammer Nut		No	Yes	
	Slide-In Nut			No	
	Roll-In Nut with Leaf Spring		Yes		
	Roll-In Nut with Spring Loaded Ball				



15 Series T-Slot Nuts						
Fits		Slot Size 	<div>15 Series (inch)</div> <div>1.5x1.5</div> <div>1.5x3</div> <div>3x3</div>			
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link
161115		\$17.50	Roll-In Nut	8-32 UNF	10	PDF
161125		\$9.50	Hammer Nut			PDF
161114		\$17.50	Roll-In Nut	10-32 UNF		PDF
162996		\$17.50				PDF
162903		\$9.00	Slide-In Nut			PDF
161126		\$8.25	Hammer Nut			PDF








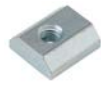





FATH® T-Slotted Rail Accessories

T-Slot Nuts - Continued

15 Series T-Slot Nuts - Continued						
<div><div><div>Fits</div><div>Slot Size</div><div>8</div></div><div><div>15 Series (inch)</div><div><div></div><div></div><div></div></div><div><div>1.5x1.5</div><div>1.5x3</div><div>3x3</div></div></div></div>						
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link
<u>162904</u>		\$9.00	Slide-In Nut	1/4-20 UNC	10	<u>PDF</u>
<u>151097</u>		\$9.50	Hammer Nut			<u>PDF</u>
<u>162997</u>		\$17.50	Roll-In Nut			<u>PDF</u>
<u>161123</u>		\$5.50	Economy T-Nut	1/4-20 UNC		<u>PDF</u>
<u>151098</u>		\$20.00	Roll-In Nut			<u>PDF</u>
<u>151096</u>		\$6.50	Economy T-Nut	5/16-18 UNC		<u>PDF</u>
<u>148805</u>		\$5.50	Double Economy T-Nut		4	<u>PDF</u>
<u>162905</u>		\$9.00	Slide-In Nut		10	<u>PDF</u>
<u>151099</u>		\$20.00	Roll-In Nut			<u>PDF</u>
<u>162998</u>		\$17.50	Roll-In Nut			<u>PDF</u>
<u>161129</u>		\$8.00	Hammer Nut			M4-0.7
<u>161119</u>		\$16.75	Roll-In Nut	<u>PDF</u>		
<u>162999</u>		\$17.50		<u>PDF</u>		

FATH® T-Slotted Rail Accessories

T-Slot Nuts - Continued

15 Series T-Slot Nuts - Continued						
<div><div><div>Fits</div><div>Slot Size</div><div>8</div></div><div><div>15 Series (inch)</div><div><div></div><div></div><div></div></div><div><div>1.5x1.5</div><div>1.5x3</div><div>3x3</div></div></div></div>						
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link
161130		\$8.00	Hammer Nut	M5-0.8	10	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
162885		\$9.75	Slide-In Nut	M8-1.25		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



15 Series Fasteners								
<div>Fits</div>		<div>Slot Size</div> <div>8</div>	<div>15 Series (inch)</div> <div><div>1.5x1.5</div><div>1.5x3</div><div>3x3</div></div>					
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						
161047		\$5.00		5/8 in	Button head socket cap screw			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		\$4.50	1/4-20 UNC	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

15 Series Fasteners - Continued									
<div>Fits</div>		<div>Slot Size</div> <div>8</div>		<div>15 Series (inch)</div> <div><div>1.5x1.5</div><div>1.5x3</div><div>3x3</div></div>					
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		1 in				PDF	
151100		\$5.25	5/16-18 UNC	5/8 in	Button head socket cap screw	Gloss black		PDF	
151101		\$6.00		11/16 in	Flanged button head socket cap screw			PDF	
161053		\$5.75		1/2 in	Button head socket cap screw	Flat black		PDF	
161054		\$6.50		3/4 in				PDF	
161055		\$7.50		1 in				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		\$2.50			Socket head cap screw			PDF	
















FATH® T-Slotted Rail Accessories

Fasteners - Continued

15 Series Fasteners - Continued								
		Fits 						
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		\$2.50	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		\$2.75			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		\$2.75			Socket head cap screw			PDF
161062		\$2.75		18mm	Button head socket cap screw			PDF
161096		\$3.00			Socket head cap screw			PDF
161081		\$2.50		20mm	Flat head socket cap screw			PDF
161063		\$2.75			Button head socket cap screw			PDF








FATH® T-Slotted Rail Accessories




Fasteners - Continued

15 Series Fasteners - Continued									
<div>Fits</div>		<div>Slot Size</div> <div>8</div>		<div>15 Series (inch)</div> <div><div>1.5x1.5</div><div>1.5x3</div><div>3x3</div></div>					
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	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	M8-1.25	16mm	Flat head socket cap screw			Gloss black	PDF
161100		\$5.50			Socket head cap screw				PDF
161067		\$4.50		Button head socket cap screw	<div>Flanged button head socket cap screw</div>	PDF			
151183		\$4.75				PDF			
151184		\$5.50				PDF			
161085		\$5.50		18mm	Flat head socket cap screw	Bright zinc	PDF		
161068		\$5.00			Button head socket cap screw		PDF		

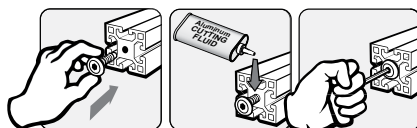
FATH® T-Slotted Rail Accessories

Fasteners - Continued

15 Series Fasteners - Continued									
<div>Fits</div>		<div>Slot Size</div> <div>8</div>		<div>15 Series (inch)</div> <div><div>1.5x1.5</div><div>1.5x3</div><div>3x3</div></div>					
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	
118284		\$2.50	5/16-18 UNC	1in	Hammer head screw and flange nut		1	PDF	

15 Series Self Forming / Tapping Screws								
		Fits		15 Series Core Hole	15 Series (inch)		Works with Aluminum with hole diameter 0.256" - 0.276" [6.6 - 7.0 mm]	
						1.5x1.5	1.5x3	3x3
Part Number	Part Image	Price	Thread	Screw Length	Head Type	Color	Pack Quantity	Drawing Link
<u>161105</u>		\$17.00	S7	25mm	Self-Tapping Screw Button head socket cap	Bright zinc	10	<u>PDF</u>
<u>161106</u>		\$9.25			Self-Tapping Screw Flanged button head socket cap T-40 Torx			<u>PDF</u>
<u>161107</u>		\$17.00		40mm	Self-Tapping Screw Button head socket cap			<u>PDF</u>

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









15 Series Connecting Components									
<div>Fits</div>		<div>Slot Size</div> <div>8</div>		<div>15 Series (inch)</div> <div><div>1.5x1.5</div><div>1.5x3</div><div>3x3</div></div>					
Part Number	Part Image	Price	Description	Fits Profile	Material	Recommended Screw Fastener (ADC Part Number)		Pack Quantity	Drawing Link
						Core Hole Attachment 1	*T-Slot Attachment 2		
148954		\$10.00	2d Cube Connector	1.5 x 1.5in	Die-cast aluminum	Fasteners Included (161105)	151100	1	PDF
166302		\$12.00				161105			PDF
148957		\$11.50	161105						PDF
166303		\$13.00				161105	PDF		
151107		\$7.50	Angle Connector	1.5 x 3in		Fasteners Included (161105)	Fasteners Included (161054 & 162998)		PDF
166304		\$8.00				161105	161054		PDF
151108		\$11.00				Fasteners Included (161105)	Fasteners Included (161054 & 151099)		PDF
166305		\$13.00				161105	161054		PDF
151102		\$23.50	Duo Connector	All 15 Series	Steel	n/a	n/a	10	PDF
151103		\$96.00	T-Matic Connector		Zinc plated steel				PDF
151104		\$59.00	Automatic Connector		Steel				1
*T-Slot Nut also required.									

*T-Slot Nut also required.


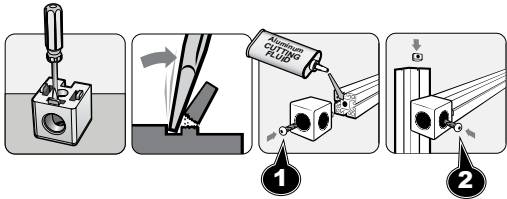
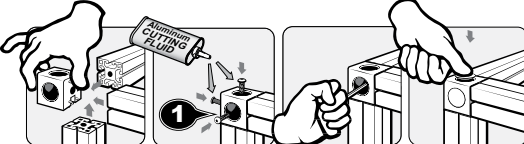
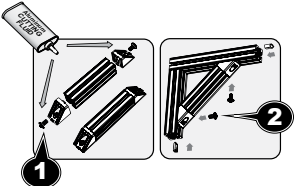
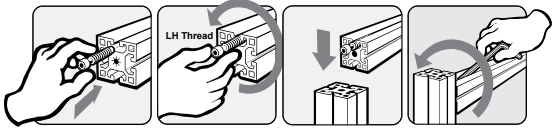
FATH® T-Slotted Rail Accessories

Connecting Components - Continued

15 Series Connecting Components - Continued									
		Fits		Slot Size 8		<div>15 Series (inch)</div> <div>1.5x1.5 1.5x3 3x3</div>			
Part Number	Part Image	Price	Description	Fits Profile	Material	Recommended Screw Fastener (ADC Part Number)		Pack Quantity	Drawing Link
						Core Hole Attachment 1	*T-Slot Attachment 2		
151105		\$9.50	Automatic Butt Connector	All 15 Series	Steel	n/a	n/a	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		M8-1.25 x 8mm set screw (4) included		PDF
163009		\$13.25	Screw Connector	1.5 x 1.5in	Zinc plated steel	Designer's choice	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 	
Duo Connector	

FATH® T-Slotted Rail Accessories

Connecting Components - Continued

Connecting Components Installation	
T-Slot Installation	
T-matic Connector	
Automatic Connector	
Automatic Butt Connector	
Milling Connector	
Connecting Strip	
Direct Connector	
Screw Connector	
Miter Connector	

FATH® T-Slotted Rail Accessories

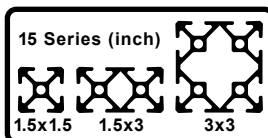
Joining Plates















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



15 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	
151110		\$5.25	Straight Flat Plate	151100 or 151101	1	PDF	
166306		\$6.00				PDF	
151111		\$4.75				PDF	
166307		\$6.00				PDF	
151112		\$6.25				PDF	
166308		\$7.00				PDF	
151113		\$6.00	Square Flat Plate				PDF
166309		\$7.00				PDF	
151114		\$8.50	Rectangular Flat Plate				PDF
166310		\$10.00				PDF	
151115		\$11.00				PDF	
166311		\$12.00				PDF	
151116		\$8.50	Flat Plate				PDF
166312		\$10.00				PDF	
*T-Slot Nut also required							

*T-Slot Nut also required

FATH® T-Slotted Rail Accessories

Joining Plates - Continued

15 Series Joining Plates - Cont'd						
<div><div><div>Fits</div><div>Slot Size</div><div>8</div></div><div><div>15 Series (inch)</div><div><div></div><div></div><div></div></div><div><div>1.5x1.5</div><div>1.5x3</div><div>3x3</div></div></div></div>						
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Drawing Link
151117		\$12.00	Flat Plate	151100 or 151101	1	PDF
166313		\$14.00				PDF
151118		\$9.25	T-Shaped Flat Plate			PDF
166314		\$11.00				PDF
151119		\$12.00				PDF
166315		\$14.00				PDF
151120		\$18.50				PDF
166316		\$22.00				PDF
151121		\$18.50	Cross Flat Plate			PDF
166317		\$22.00				PDF
151122		\$13.50	L-Shaped Flat Plate			PDF
166318		\$16.00				PDF
151123		\$14.50	T-Shaped Flat Plate			PDF
166319		\$17.00				PDF

*T-Slot Nut also required















*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















15 Series Brackets													
Fits		Slot Size 8	<div>15 Series (inch)</div> <div><div>1.5x1.5</div><div>1.5x3</div><div>3x3</div></div>										
Part Number	Part Image	Price	Description	Recommended Screw Fastener (ADC Part Number)		Pack Quantity	Material	Drawing Link					
				Core Hole Attachment 1	*T-Slot Attachment 2								
148916		\$4.00	Angle Bracket	n/a	151100	1	Die-cast aluminum	PDF					
166321		\$4.00						PDF					
151125		\$7.75			161054			PDF					
166322		\$9.00						PDF					
151126		\$11.50			151101	1	Die-cast zinc	PDF					
166323		\$13.00						PDF					
151124		\$3.75	Inside Corner Bracket		n/a	151100 or 151101	1	Anodized aluminum	PDF				
166320		\$4.00							PDF				
151127		\$6.50	Wide Inside Corner Bracket						PDF				
166324		\$8.00							PDF				
151128		\$6.00	Tall Inside Corner Bracket						PDF				
166325		\$7.00							PDF				
148906		\$9.00	Inside Corner Bracket						PDF				
166326		\$11.00							PDF				

*T-Slot Nut also required.

*T-Slot Nut also required.

FATH® T-Slotted Rail Accessories

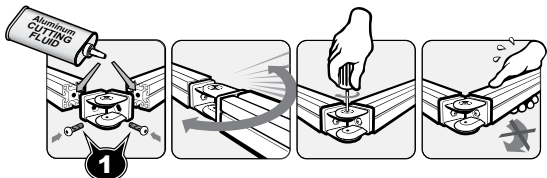
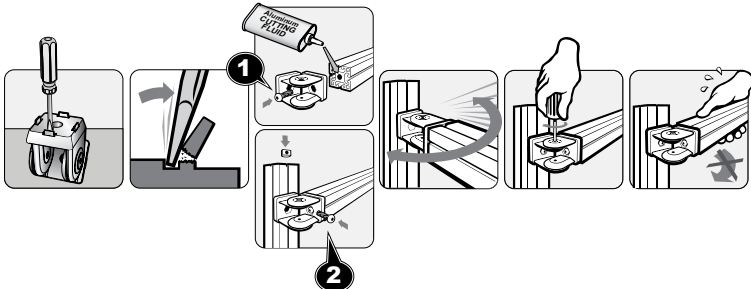
Brackets - Continued

15 Series Brackets - Continued								
Fits		Slot Size 8	<div>15 Series (inch)</div> <div><div>1.5x1.5</div><div>1.5x3</div><div>3x3</div></div>					
Part Number	Part Image	Price	Description	Recommended Screw Fastener (ADC Part Number)		Pack Quantity	Material	Drawing Link
				Core Hole Attachment 1	*T-Slot Attachment 2			
151129		\$3.75	Gusseted Inside Corner Bracket			1	Anodized aluminum	PDF
166327		\$4.00						PDF
151130		\$7.75	Tall Gusseted Inside Corner Bracket	n/a	151100 or 151101			PDF
166328		\$9.00						PDF
148910		\$6.75	Wide Gusseted Inside Corner Bracket					PDF
166329		\$8.00						PDF
151131		\$13.00	Gusseted Inside Corner Bracket					PDF
166330		\$16.00						PDF
151132		\$29.50	Pivot Joint	161055	151100		Die-cast zinc	PDF
166331		\$35.00						PDF
148933		\$39.50	Pivot Joint With Locking Handle					PDF
166332		\$45.00						PDF
*T-Slot Nut also required.								

*T-Slot Nut also required.

FATH[®] T-Slotted Rail Accessories

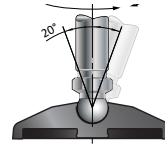
Brackets - Continued

Brackets Installation	
Core Hole Installation	T-Slot Installation
Pivot Joint	
	

FATH® T-Slotted Rail Accessories

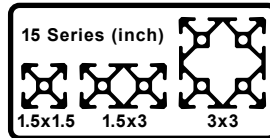
Bases














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



15 Series Bases

Fits 



Part Number	Part Image	Price	Diameter	Description	Fits	Load Rating kg [lb]	Recommended Screw Fastener (ADC Part Number)		Pack Quantity	Material	Drawing Link									
							Core Hole Attachment 1	*T-Slot Attachment 2												
118357		\$17.00	n/a	3/8-16 UNC Transport/Base Plate	1.5 x 3in	n/a	161105 (2) included with kit	n/a	1	Die-cast zinc	PDF									
161043		\$28.00			3 x 3in		161105 (4) included with kit				PDF									
151075		\$4.50		3/8-16 UNC x 1-1/2in Swivel Foot Threaded Rod with 15mm ball	Transport/Base Plate 118357 and 161043	470 [1036]**	Zinc plated steel			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									
151072		\$17.00	3.11 in [79.0 mm]								PDF									
151073		\$17.00									PDF									
151069		\$6.00	900 [1984]				Nylon			PDF										
151070		\$6.00								PDF										
151255		\$10.00					3.90 in [99.0 mm]							Die-cast zinc	PDF					
151256		\$10.00	3500 [7716]							PDF										
151257		\$24.00								PDF										
151258		\$24.00								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:

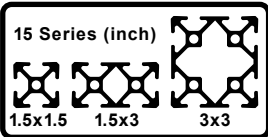







Threaded rod load rating = 210kg [463lb]

Swivel base load rating = 3000kg [6614lb]

Swivel foot assembly load rating = 210kg [463lb]

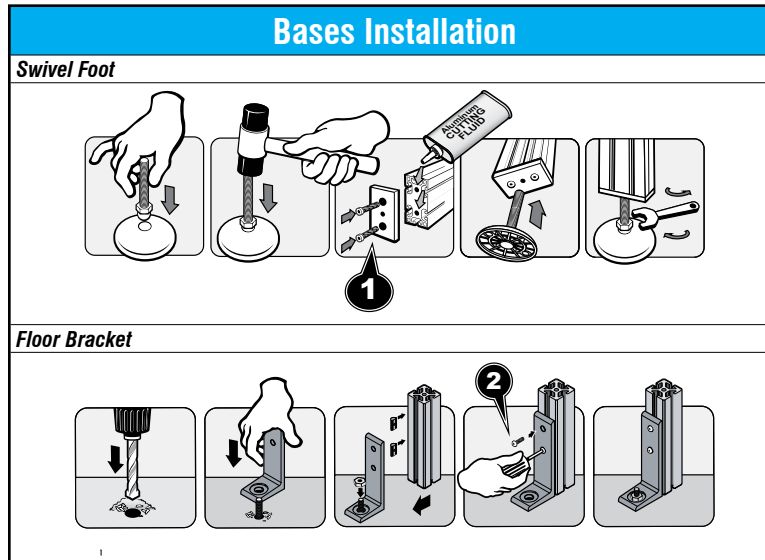
FATH® T-Slotted Rail Accessories

Bases - Continued

15 Series Bases - continued													
		Fits		Slot Size		15 Series (inch)							
				8									
Part Number	Part Image	Price	Diameter	Description	Fits	Load Rating kg [lb]	Recommended Screw Fastener (ADC Part Number)		Pack Quantity	Material	Drawing Link		
							Core Hole Attachment 1	*T-Slot Attachment 2					
162933		\$12.50	See 2D drawing	Extended Swivel Base	Any 15mm ball Threaded Rod	1000 [2204]	n/a		n/a		Nylon	PDF	
162934		\$27.00				3000 [6613]					Die-cast zinc	PDF	
166333		\$30.00	n/a	Foot Console	1.5 x 1.5 in, 3 x 3in				161054	1	Die-cast aluminum	PDF	
166334		\$30.00										PDF	
166335		\$30.00			1.5 x 3in, 3 x 3in							PDF	
166336		\$30.00										PDF	
162957		\$11.50		Floor Bracket	1.5 x 1.5 in, 1.5 x 3in, 3 x 3in					151100		Anodized aluminum	PDF
<p>*T-Slot Nut also required</p> <p>**Based on installation with Transport / Base Plate</p> <p>Load rating of a swivel foot assembly is based on the part with the lowest load rating, typically the threaded rod.</p> <p>Example:</p> <p>Threaded rod load rating = 210kg [463lb]</p> <p>Swivel base load rating = 3000kg [6614lb]</p> <p>Swivel foot assembly load rating = 210kg [463lb]</p>													

FATH® T-Slotted Rail Accessories















Bases - Continued



FATH® T-Slotted Rail Accessories

Casters

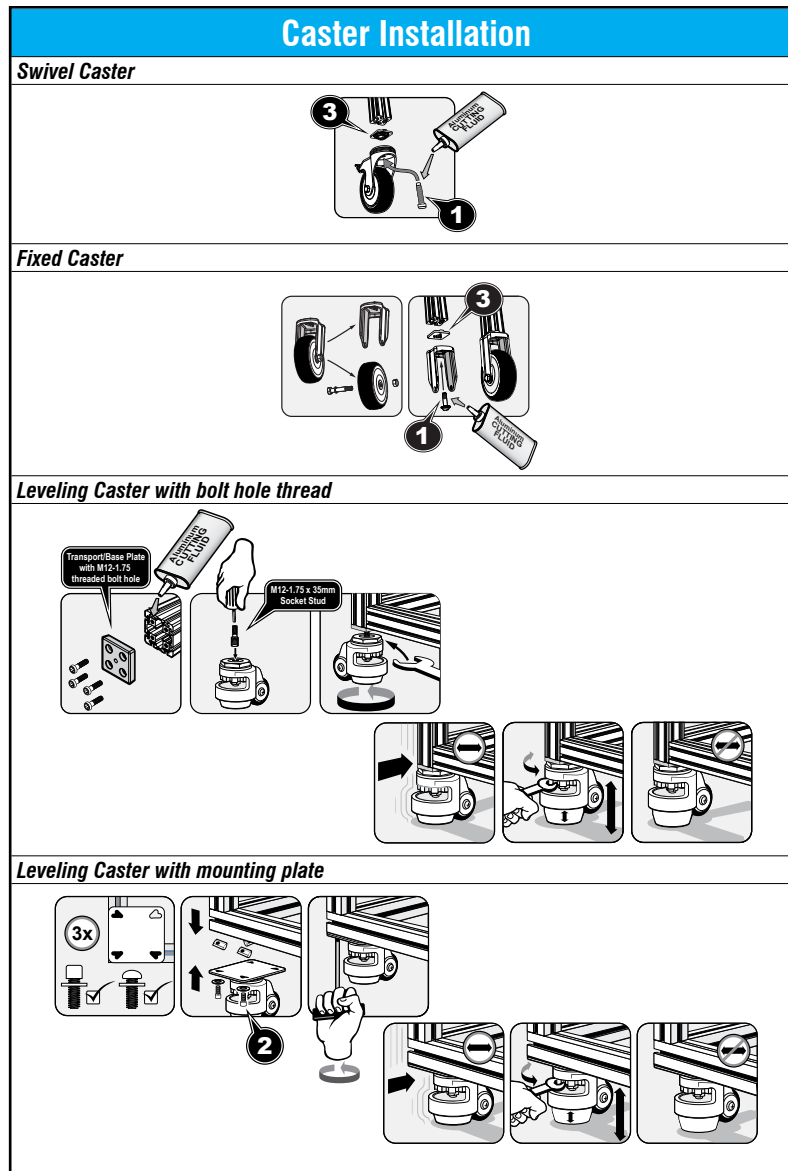
- Recommended ADC Fastener based on part feature and attachment type
- Material: varies by part

15 Series Casters												
Fits		Slot Size 		<div>15 Series (inch)</div> <div>  </div> <div>1.5x1.5 1.5x3 3x3</div>								
Part Number	Part Image	Price	Description	Requires	Load Rating kg [lb]	Recommended Screw Fastener (ADC Part Number)		Pack Quantity	Material	Drawing Link		
						Core Hole Attachment 1	*T-Slot Attachment 2					
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		\$3.25	3 Fixed Fixed Caster Adapter Plate	Requires Fixed Caster 151135)			Die-cast zinc		PDF			
151137		\$62.00	Swivel Caster	n/a	122 [269]	n/a	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]		151040			PDF		
163013		\$56.00			500 [1102]					PDF		
*T-Slot Nut also required												

*T-Slot Nut also required

FATH® T-Slotted Rail Accessories

Casters - Continued



FATH® T-Slotted Rail Accessories

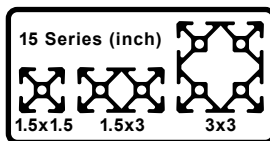
Panel and Door Elements













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



15 Series Panel and Door Elements

Fits Slot Size 8








Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Pack Quantity	Material	Drawing Link
151146		\$6.00	Bridge Handle	161048	1	Fiberglass reinforced plastic	PDF
151147		\$6.00		151100			PDF
151148		\$6.25	Cover Cap 3	n/a			PDF
151149		\$6.50	Comfort Handle	161054			PDF
151150		\$2.25	Cover Cap 3	n/a			PDF
151151		\$12.50	Comfort Handle	161054			PDF
151152		\$3.00	Cover Cap 3	n/a			PDF
151153		\$33.50	Machine Handle	151100			PDF
151154		\$47.00	Compact Slam Latch	161050		Die-cast aluminum	PDF
151155		\$58.00	Compact Sliding Door Latch				PDF
151156		\$37.00	Emergency Opener	161087		Fiberglass reinforced plastic	PDF
151157		\$7.25	Ball Catch	161051			PDF

*T-Slot Nut also required

*T-Slot Nut also required

FATH® T-Slotted Rail Accessories

Panel and Door Elements - Continued

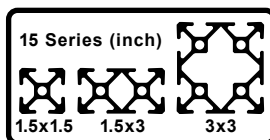
15 Series Panel and Door Elements - Continued							
Fits		Slot Size	<div>15 Series (inch)</div> <div><div>1.5x1.5</div><div>1.5x3</div><div>3x3</div></div>				
<div>151158</div>		\$14.50	Double Ball Catch	<div>161076</div>	1	Brass	<div>PDF</div>
<div>151159</div>		\$23.00	Door Latch	<div>161087</div>		Die-cast zinc	<div>PDF</div>
<div>162963</div>		\$8.50	Magnetic Catch	<div>161048</div>		Nylon/steel	<div>PDF</div>
<div>162911</div>		\$5.00	Panel Holder	<div>151100</div>		Anodized aluminum	<div>PDF</div>
<div>162916</div>		\$6.00					<div>PDF</div>
<div>162922</div>		\$5.75	Panel Mount Block	Fasteners included		Lacquered aluminum	<div>PDF</div>
<div>162923</div>		\$5.75				Powder-coated aluminum	<div>PDF</div>
<div>162977</div>		\$8.50	Hanger	<div>161050</div>	10	Die-cast zinc	<div>PDF</div>
<div>162978</div>		\$3.00	Panel Uni-Block	n/a		Nylon	<div>PDF</div>
<div>162979</div>		\$3.00					<div>PDF</div>
*T-Slot Nut also required							

FATH® T-Slotted Rail Accessories

Panel and Door Elements - Continued

15 Series Panel and Door Elements - Continued

Fits

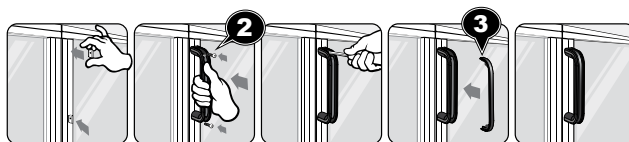


Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Pack Quantity	Material	Drawing Link
151160		\$56.00	Sealing Strip	n/a	2	PVC/TPE	PDF
151163		\$25.00	Cover Profile		1	Nitrile rubber	PDF
162928		\$500.00	Sealing Profile			Nitrile rubber	PDF
151165		\$87.00	Cover Profile		25	Polypropylene	PDF
151164		\$110.00	Cover And Reduction Profile				PDF

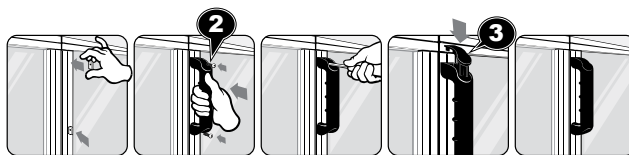
*T-Slot Nut also required

Panel and Door Elements Installation

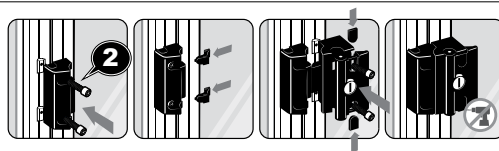
Bridge Handle and Cover Cap



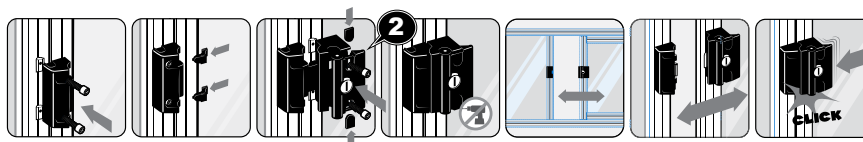
Comfort Handle and Cover Cap



Slam Latch



Sliding Door Latch

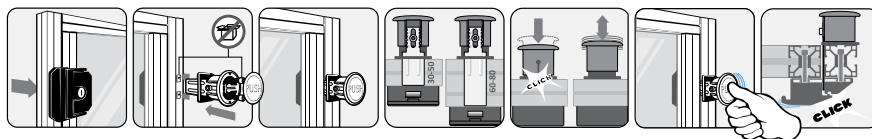


FATH® T-Slotted Rail Accessories

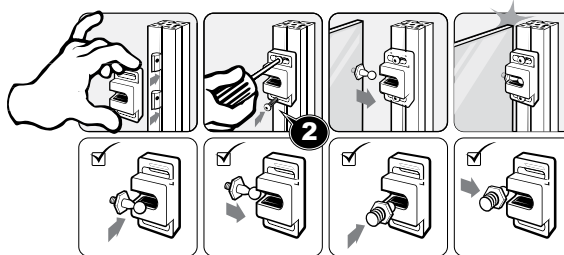
Panel and Door Elements - Continued

Panel and Door Elements Installation - Continued

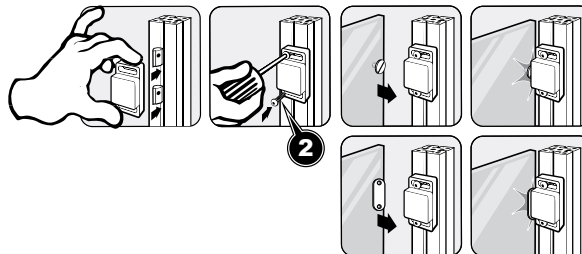
Emergency Opener



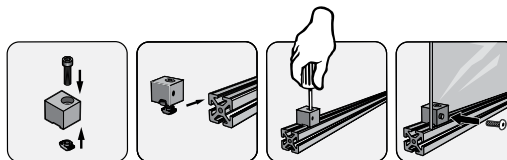
Ball Catch



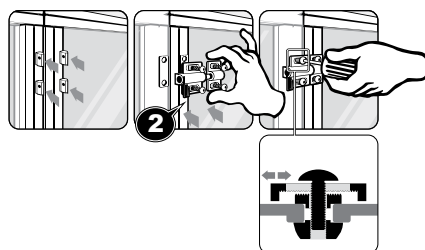
Magnetic Catch



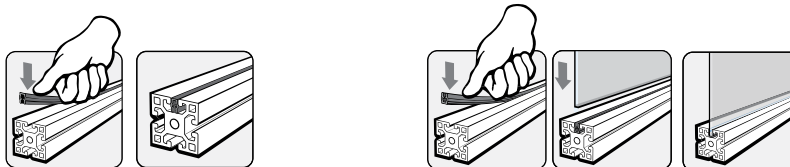
Panel Mount Block



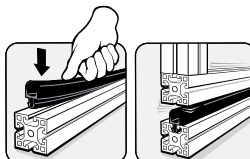
Door Latch



Cover and Reduction Profile

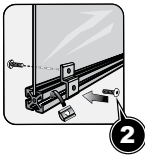
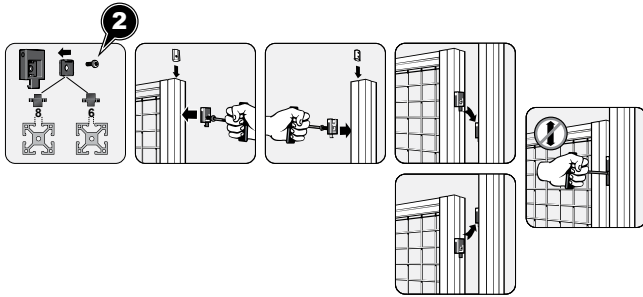


Sealing Profile



FATH® T-Slotted Rail Accessories

Panel and Door Elements - Continued

Panel and Door Elements Installation - Continued	
Panel Holder	
Hanger	

FATH® T-Slotted Rail Accessories

Slides and Rollers

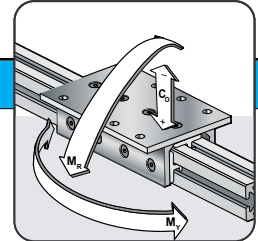
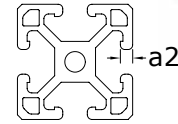
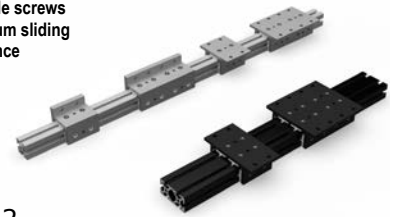
Linear Bearings

- 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

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.















Adjust side screws
for optimum sliding
performance



15 Series Slides and Rollers

Fits
Slot Size
8



Part Number	Part Image	Price	Description	Fits	Pack Quantity	Load Ratings				Material	Drawing Link								
						Static (Co) N[lbf]	Reverse Static (-Co) N[lbf]	Roll Moment (Mr) N-m[lbf-ft]	Yaw Moment (My) N-m[lbf-ft]										
166337		\$60.00	3-slot, double flange, short linear bearing	1.5 x 1.5 in, 1.5 x 3in,	1	1000 [225]	500 [112]	40 [29]	150 [111]	Aluminum/ die-cast zinc/ polyoxymethylene (POM)	PDF								
166338		\$60.00				2000 [450]	1000 [225]	80 [59]	200 [147]		PDF								
166339		\$120.00	3-slot, double flange, long linear bearing								PDF								
166340		\$130.00	50 [37]			150 [111]		PDF											
166341		\$80.00		4-slot, double flange, short linear bearing				1.5 x 3in, 3 x 3in			4000 [889]	2000 [450]				PDF			
166342		\$80.00	100 [74]			200 [147]						PDF							
166343		\$150.00		4-slot, double flange, long linear bearing								PDF							
166344		\$160.00		PDF															
166345		\$60.00	3-slot, single flange, short linear bearing	1.5 x 1.5 in, 1.5 x 3in,		1000 [225]	500 [112]	40 [29]	150 [111]		PDF								
166346		\$60.00									PDF								
166347		\$120.00	3-slot, single flange, long linear bearing			2000 [450]	1000 [225]	80 [59]	200 [147]		PDF								
166348		\$120.00									PDF								

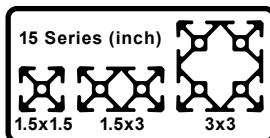
FATH® T-Slotted Rail Accessories




Slides and Rollers - Continued



15 Series Slides and Rollers - Cont'd

Fits

Slot Size
8

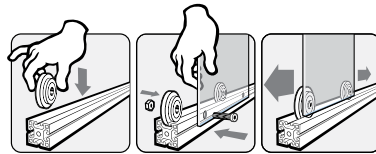
Part Number	Part Image	Price	Description	Fits	Pack Quantity	Recommended Screw Fastener T-Slot Attachment 2	Material	Drawing Link		
166349		\$45.00	Cam Lever Brake	All 15 Series Linear Bearings	1	n/a	Plastic/steel	PDF		
166350		\$28.00	L-Handle Brake					PDF		
151168		\$18.00	Slider	n/a		Fasteners included	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
151089		\$4.50	Snap Hook	Slider 151166		Fasteners included	Zinc plated steel	PDF		
163020		\$13.75	Roller Element With Guide	All 15 Series			Thermoplastic polyurethane/ nylon/steel	PDF		
163021		\$14.50	Roller Element Without Guide					PDF		

FATH® T-Slotted Rail Accessories

Slides and Rollers - Continued

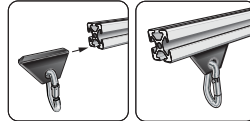
Slides and Rollers Installation

Roller

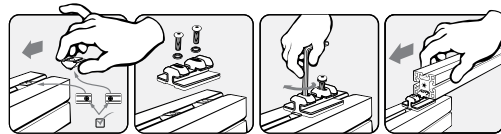


Bolt and nut not included
and not available from
AutomationDirect

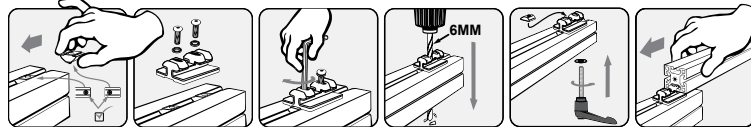
Slider and Snap Hook



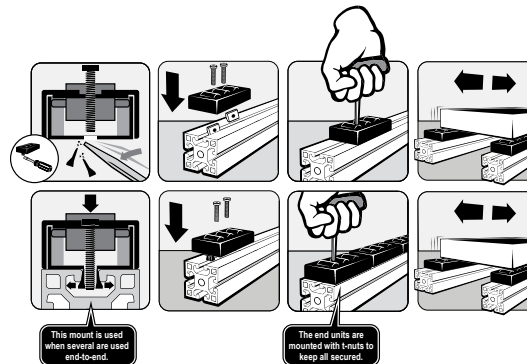
Slider



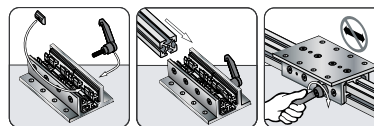
Slider with Clamp Lever



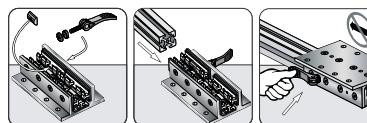
Roller Element



L-Handle Brake



Cam Lever Brake



FATH® T-Slotted Rail Accessories

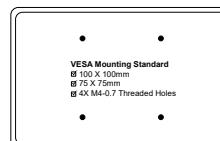
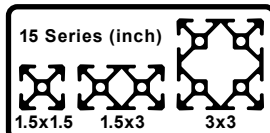
Monitor Mounts






15 Series Monitor Mounts

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

Fits  Slot Size 8

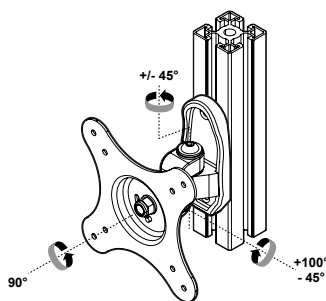


Part Number	Part Image	Price	Description	Load Rating kg [lb]	Pack Quantity	Installation Instructions Link	Drawing Link
162893		\$42.00	Swivel Monitor Mount	15 [33.1]	1	PDF	PDF
162894		\$50.00				PDF	PDF
162895		\$58.00				PDF	PDF
162896		\$92.00	Monitor Mounting Joint			PDF	PDF
162897		\$92.00	Monitor Holder			PDF	PDF
162899		\$325.00	4-Axis Mounting Support	10 [22.0]		PDF	PDF
162900		\$375.00	5-Axis Mounting Support			PDF	PDF
162901		\$600.00	4-Axis Workstation	8 [17.6]		PDF	PDF

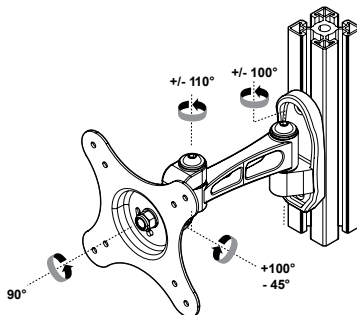
FATH® T-Slotted Rail Accessories

Monitor Mounts - Continued

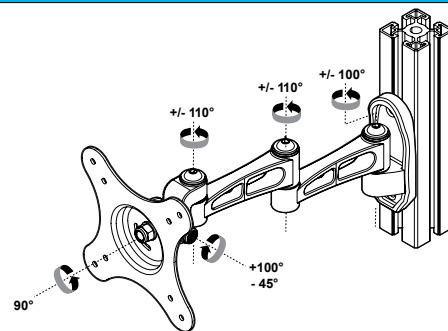
Monitor Mounts Adjustments



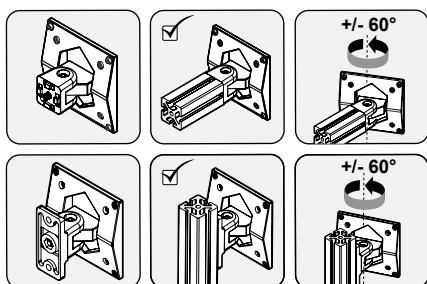
162893



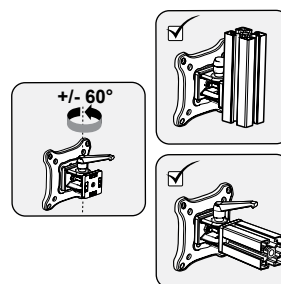
162894



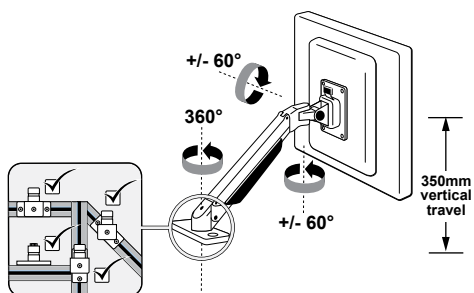
162895



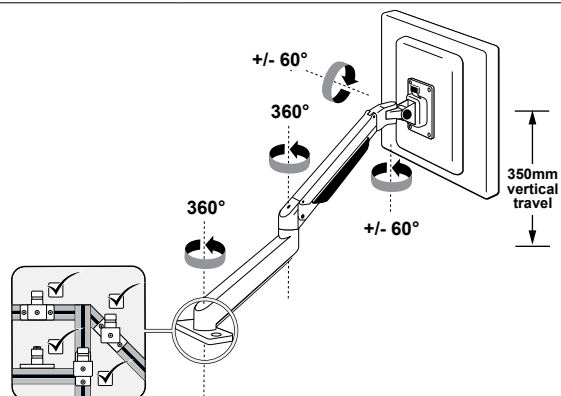
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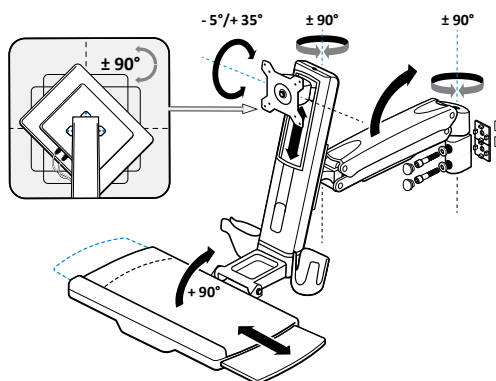
162897



162899



162900



162901

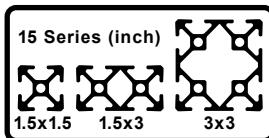
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Workstation Components



15 Series Workstation Components

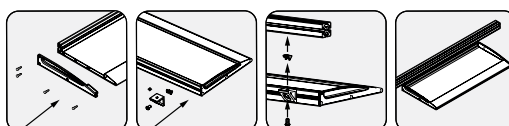
Fits  Slot Size



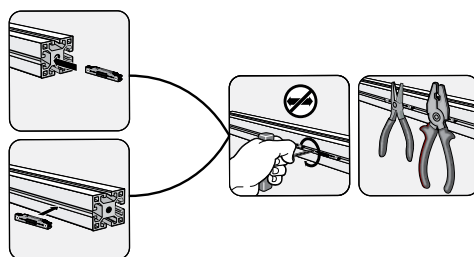
Part Number	Part Image	Price	Description	Load Rating kg [lb]	Pack Quantity	Material	Drawing Link
162902		\$185.00	Keyboard Holder (requires mounting solution, designer's choice)	n/a	1	Aluminum/nylon	PDF
162906		\$8.00	Magnetic Holder			Nylon/steel	PDF
162964		\$9.00	Grab Tray			Nylon	PDF
162965		\$2.00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

Workstation Components Installation

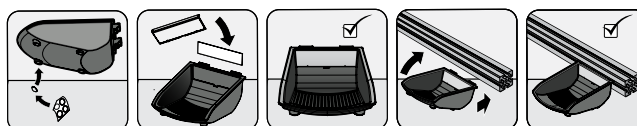
Keyboard Holder (mounting example)



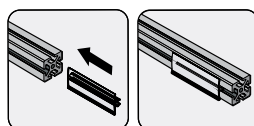
Magnetic Holder



Grab Tray



Label Clip



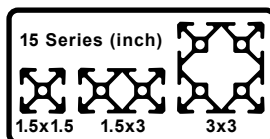
FATH® T-Slotted Rail Accessories






Wire Management



15 Series Wire Management

Fits Slot Size
8

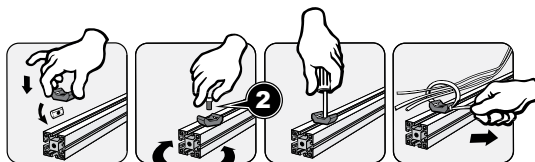


Part Number	Part Image	Price	Description	Pack Quantity	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Material	Drawing Link
151162		\$89.00	Conduit Cover 2000mm long	2	n/a	Polypropylene	PDF
151174		\$15.50	Cross Cable Binding Block	10		Nylon	PDF
151175		\$64.00	Hook And Loop			Glass-filled 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	161046	Nylon	PDF

*T-Slot Nut also required

Wire Management Installation

Universal Cable Binder Block



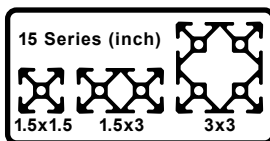
FATH® T-Slotted Rail Accessories










Miscellaneous Accessories



15 Series Miscellaneous Accessories

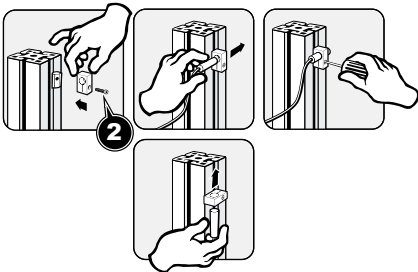
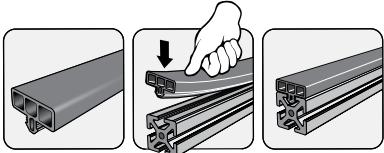
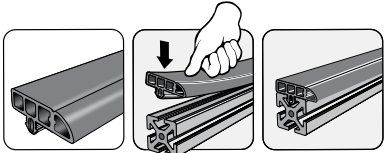
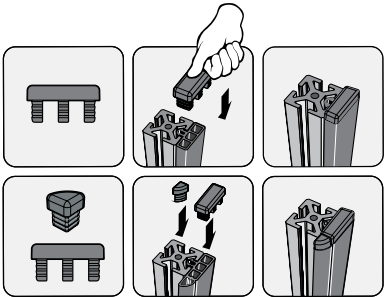
Fits  Slot Size 8



Part Number	Part Image	Price	Description	Requires	Fits Profile	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Pack Quantity	Material	Drawing Link			
151171		\$16.50	End Cap	n/a	1.5 x 1.5in	n/a	10	Glass-filled nylon	PDF			
151172		\$21.00			1.5 x 3in				PDF			
151173		\$37.00			3 x 3in				PDF			
151091		\$6.00	Stop Bumper		All 15 Series	BHCS 8-32 x 1" (not sold by ADC)	1	Rubber/zinc-plated steel	PDF			
151170		\$9.00							PDF			
162973		\$3.25	Sensor Mounting Block for 8mm proximity sensor					Nylon	PDF			
162974		\$3.25	Sensor Mounting Block for 12mm proximity sensor						PDF			
162929		\$240.00	Side Protection Profile						n/a	5	Thermoplastic rubber	PDF
162930		\$270.00	Corner Protection Profile									PDF
162931		\$28.00	Cover Cap for Side	10								PDF
162932		\$20.00	Cover Cap for Corner									PDF

FATH[®] T-Slotted Rail Accessories

Miscellaneous Accessories - Continued

Miscellaneous Installation		
Sensor Mounting Block		
		
Side Protection Profile		
		
Corner Protection Profile		
		
Cover Cap for Side		
		
Cover Cap for Corner		
