



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)								
Slot Size 8		Core Hole Ø 0.27"				Drop Lock 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
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.



Aluminum T-Slotted Rail

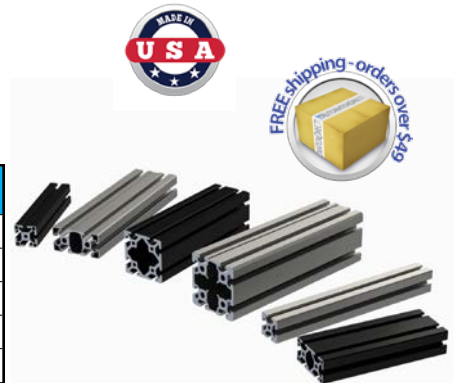
15 Series Fractional T-Slotted Aluminum Rail

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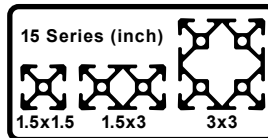
Properties	
Material	Aluminum 6063-T6
Finish	Clear or Black Anodize
Hardness	Webster Model B 11-12
Straightness	0.0125 inch/ft [1.042 mm/m]
Twist	0.25°/ft [0.25°/305mm]



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

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:

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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

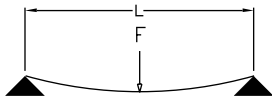
"L" = Length

"W" = Weight

**for reference only*

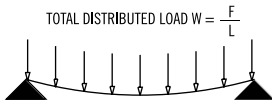
Supported Loads

CONCENTRATED LOAD AT CENTER (simply supported)



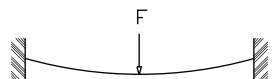
$$\text{MAX DEFLECTION} = \frac{FL^3}{48 EI}$$

UNIFORMLY DISTRIBUTED LOAD (simply supported)



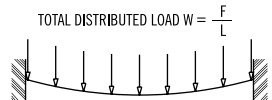
$$\text{MAX DEFLECTION} = \frac{5}{84} \frac{WL^4}{EI}$$

CONCENTRATED LOAD AT CENTER (between fixed supports)



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

UNIFORMLY DISTRIBUTED LOAD (between fixed supports)



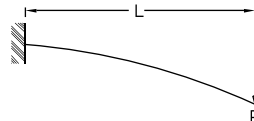
$$\text{MAX DEFLECTION} = \frac{WL^4}{384 EI}$$

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]

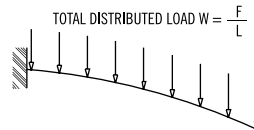
Cantilever Loads

CONCENTRATED LOAD AT CENTER (simply supported)



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

UNIFORMLY DISTRIBUTED LOAD (simply supported)

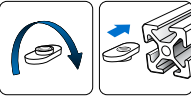


$$\text{MAX DEFLECTION} = \frac{WL^4}{8 EI}$$

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 	15 Series (inch) 1.5x1.5 1.5x3 3x3			
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						
Fits Slot Size 8 15 Series (inch)    1.5x1.5 1.5x3 3x3						
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						
Fits Slot Size 8 15 Series (inch) 1.5x1.5 1.5x3 3x3						
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link
<u>161130</u>		\$8.00	Hammer Nut	M5-0.8	10	<u>PDF</u>
<u>161120</u>		\$16.75	Roll-In Nut			<u>PDF</u>
<u>163000</u>		\$17.50				<u>PDF</u>
<u>151214</u>		\$9.00	Hammer Nut	M6-1.0		<u>PDF</u>
<u>162884</u>		\$9.75	Slide-In Nut			<u>PDF</u>
<u>151215</u>		\$19.00	Roll-In Nut			<u>PDF</u>
<u>163001</u>		\$17.50				<u>PDF</u>
<u>162885</u>		\$9.75	Slide-In Nut	M8-1.25		<u>PDF</u>
<u>151216</u>		\$19.00	Roll-In Nut			<u>PDF</u>
<u>163002</u>		\$17.50				<u>PDF</u>

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



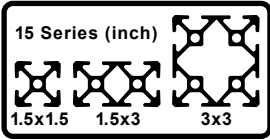
15 Series Fasteners								
Fits		Slot Size	15 Series (inch) 1.5x1.5 1.5x3 3x3					
Part Number	Part Image	Price	Thread	Screw Length	Head Type	Color	Pack Quantity	Drawing Link
162994		\$8.00	#8-32 UNF	3/8 in	Button head socket cap screw	Flat black	10	PDF
161073		\$7.75		1/2 in	Flat head socket cap screw			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		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

Fasteners - Continued

15 Series Fasteners - Continued								
Fits		Slot Size 8		15 Series (inch) 1.5x1.5 1.5x3 3x3				
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	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		1in				PDF
161088		\$2.25		M4-0.7	8mm	Socket head cap screw		Bright zinc
161089		\$2.50	10mm		Socket head cap screw			
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  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		\$2.50	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									
Fits		Slot Size 8		15 Series (inch) 1.5x1.5 1.5x3 3x3					
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	Flanged button head socket cap screw	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

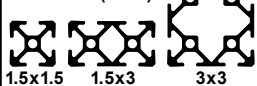
Fasteners - Continued

15 Series Fasteners - Continued

Fits



15 Series (inch)



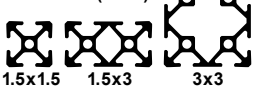
Part Number	Part Image	Price	Thread	Screw Length	Head Type	Color	Pack Quantity	Drawing Link
<u>161101</u>		\$5.50	M8-1.25	18mm	Socket head cap screw	Bright zinc	10	<u>PDF</u>
<u>151241</u>		\$4.50		20mm	Button head socket cap screw			<u>PDF</u>
<u>161102</u>		\$5.75			Socket head cap screw			<u>PDF</u>
<u>161086</u>		\$7.00		25mm	Flat head socket cap screw			<u>PDF</u>
<u>161069</u>		\$5.25			Button head socket cap screw			<u>PDF</u>
<u>161070</u>		\$8.00		40mm	Button head socket cap screw			<u>PDF</u>
<u>118284</u>		\$2.50	5/16-18 UNC	1in	Hammer head screw and flange nut		1	<u>PDF</u>

15 Series Self Forming / Tapping Screws

Fits



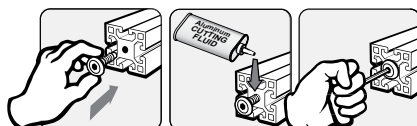
15 Series (inch)



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
<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										
Fits Slot Size 8 15 Series (inch)  1.5x1.5 1.5x3 3x3										
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	3d Cube Connector						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	PDF	
*T-Slot Nut also required.										

*T-Slot Nut also required.

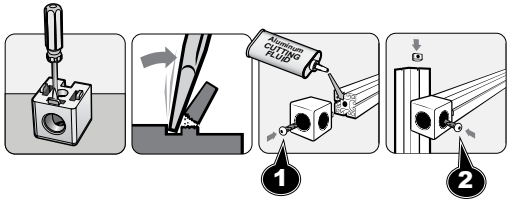
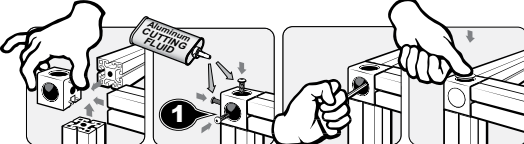
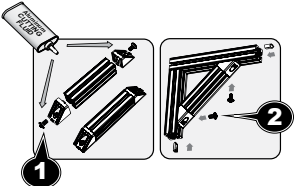
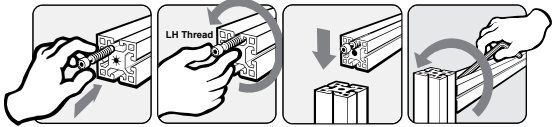
FATH® T-Slotted Rail Accessories

Connecting Components - Continued

15 Series Connecting Components - Continued									
		Fits		Slot Size 8		15 Series (inch)			
				1.5x1.5		1.5x3		3x3	
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

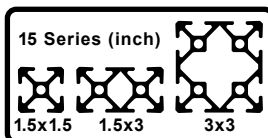
Joining Plates

- 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						
Fits Slot Size 8 15 Series (inch)    1.5x1.5 1.5x3 3x3						
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	15 Series (inch) 1.5x1.5 1.5x3 3x3											
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		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

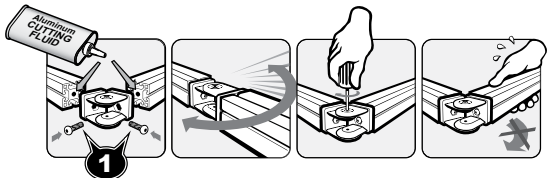
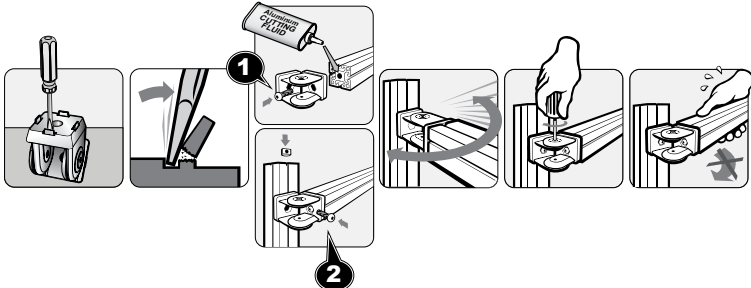
15 Series Brackets - Continued										
Fits		Slot Size 8	15 Series (inch) 1.5x1.5 1.5x3 3x3							
Part Number	Part Image	Price	Description	Recommended Screw Fastener (ADC Part Number)		Pack Quantity	Material	Drawing Link		
				Core Hole Attachment 1	*T-Slot Attachment 2					
151129		\$3.75	Gusseted 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

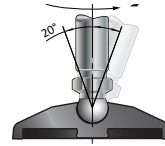
Brackets - Continued

Brackets Installation	
Core Hole Installation	T-Slot Installation
Pivot Joint	
	

FATH® T-Slotted Rail Accessories

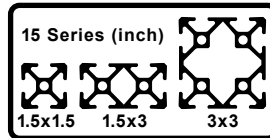
Bases

- 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													PDF					
151257		\$24.00	3500 [7716]							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:

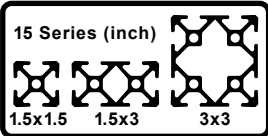
Threaded rod load rating = 210kg [463lb]

Swivel base load rating = 3000kg [6614lb]

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

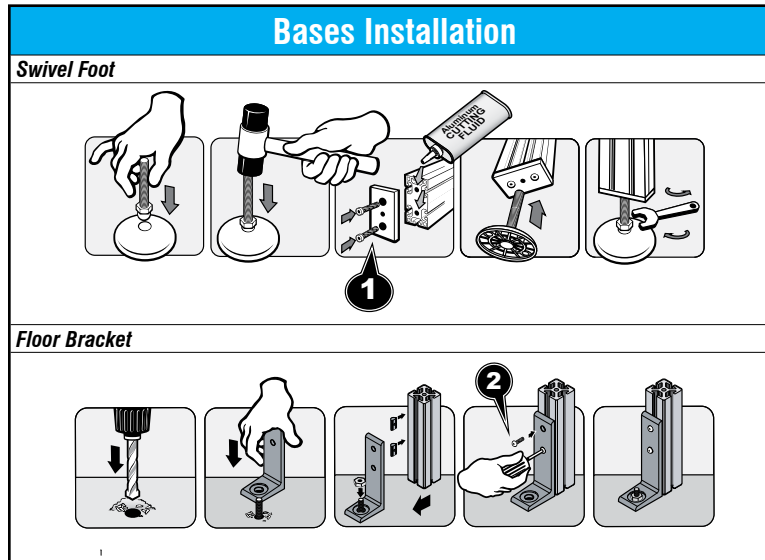
FATH® T-Slotted Rail Accessories

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	1	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	n/a		161054		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	
*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



FATH® T-Slotted Rail Accessories

Casters

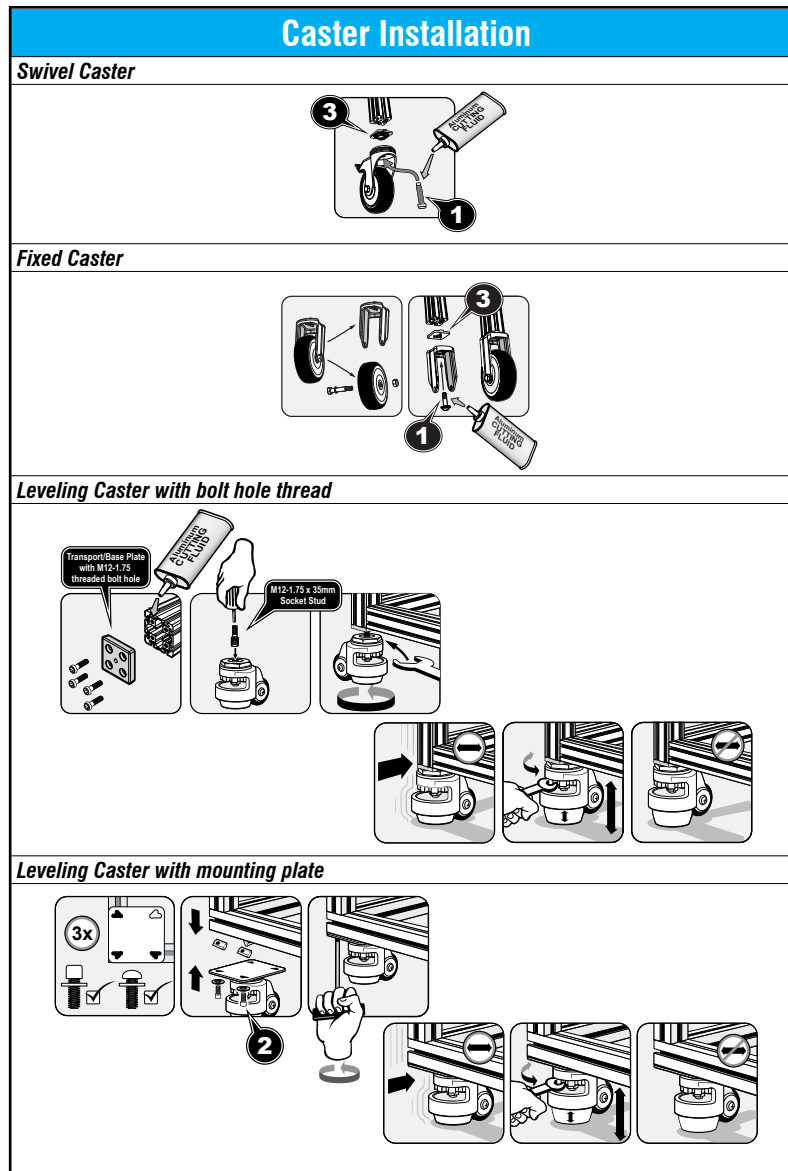
- Recommended ADC Fastener based on part feature and attachment type
- Material: varies by part

15 Series Casters												
Fits		Slot Size 		15 Series (inch)    1.5x1.5 1.5x3 3x3								
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

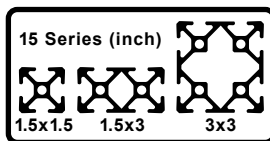
Panel and Door Elements

- 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

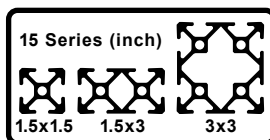
15 Series Panel and Door Elements - Continued							
Fits Slot Size 8 15 Series (inch) 1.5x1.5 1.5x3 3x3							
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Pack Quantity	Material	Drawing Link
151158		\$14.50	Double Ball Catch	161076	1	Brass	PDF
151159		\$23.00	Door Latch	161087		Die-cast zinc	PDF
162963		\$8.50	Magnetic Catch	161048		Nylon/steel	PDF
162911		\$5.00	Panel Holder	151100		Anodized aluminum	PDF
162916		\$6.00					PDF
162922		\$5.75	Panel Mount Block	Fasteners included		Lacquered aluminum	PDF
162923		\$5.75				Powder-coated aluminum	PDF
162977		\$8.50	Hanger	161050	10	Die-cast zinc	PDF
162978		\$3.00	Panel Uni-Block	n/a		Nylon	PDF
162979		\$3.00					PDF
*T-Slot Nut also required							

FATH® T-Slotted Rail Accessories

Panel and Door Elements - Continued

15 Series Panel and Door Elements - Continued

Fits

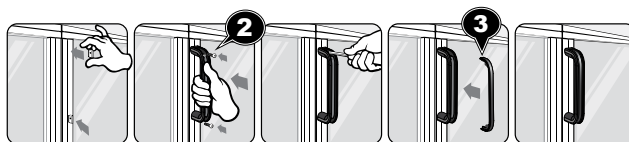


Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Pack Quantity	Material	Drawing Link
151160		\$56.00	Sealing Strip	n/a	2	PVC/TPE	PDF
151163		\$25.00	Cover Profile		1	Nitrile rubber	PDF
162928		\$500.00	Sealing Profile			Nitrile rubber	PDF
151165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

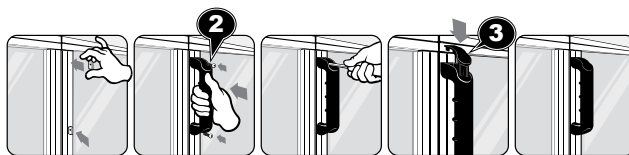
*T-Slot Nut also required

Panel and Door Elements Installation

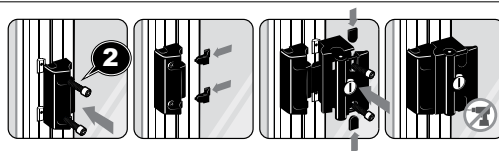
Bridge Handle and Cover Cap



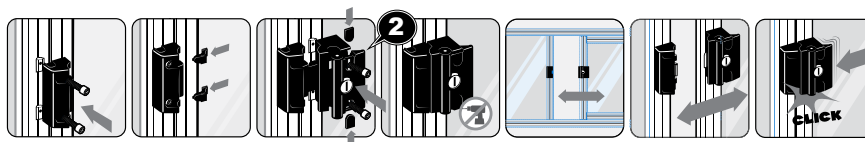
Comfort Handle and Cover Cap



Slam Latch



Sliding Door Latch

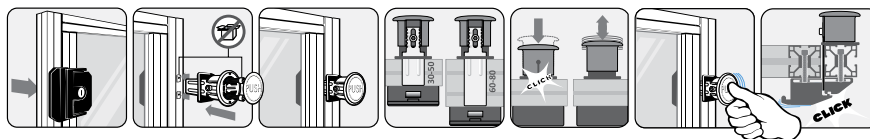


FATH® T-Slotted Rail Accessories

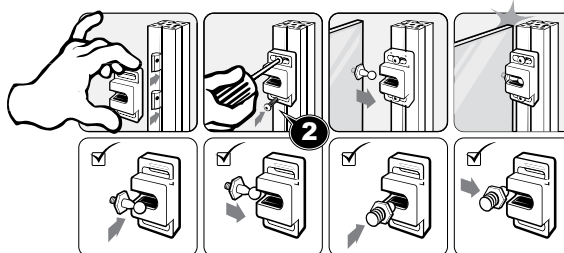
Panel and Door Elements - Continued

Panel and Door Elements Installation - Continued

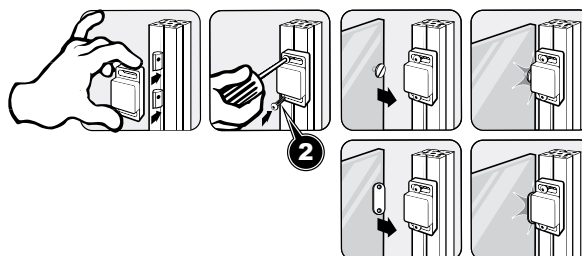
Emergency Opener



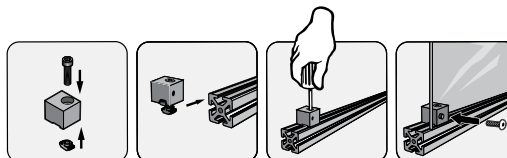
Ball Catch



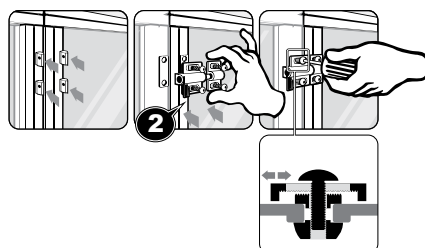
Magnetic Catch



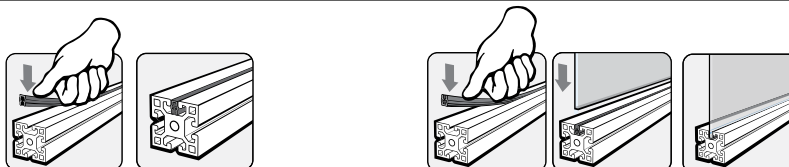
Panel Mount Block



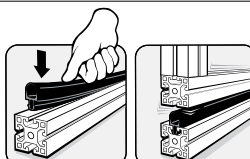
Door Latch



Cover and Reduction Profile

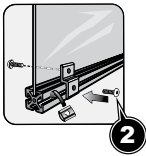
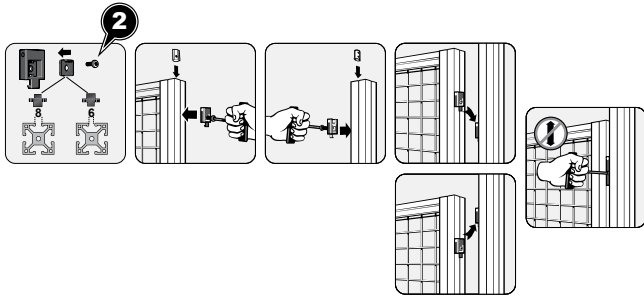


Sealing Profile



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

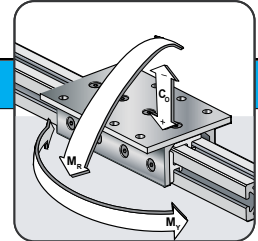
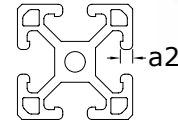
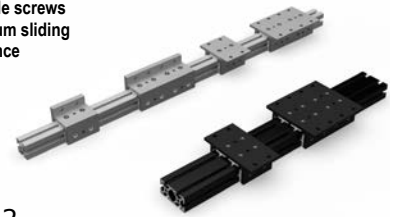
Linear Bearings

- 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.

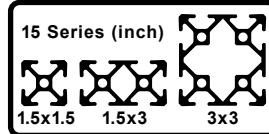


Adjust side screws
for optimum sliding
performance



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									PDF				
166339		\$120.00				3-slot, double flange, long linear bearing	80 [59]	200 [147]	PDF						
166340		\$130.00							PDF						
166341		\$80.00	4-slot, double flange, short linear bearing	1.5 x 3in, 3 x 3in		2000 [450]	1000 [225]	50 [37]	150 [111]		PDF				
166342		\$80.00									PDF				
166343		\$150.00	4-slot, double flange, long linear bearing			4000 [889]	2000 [450]	100 [74]	200 [147]		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

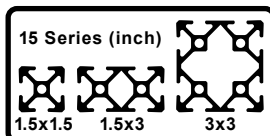
FATH® T-Slotted Rail Accessories

Slides and Rollers - Continued



15 Series Slides and Rollers - Cont'd

Fits

Slot Size
8

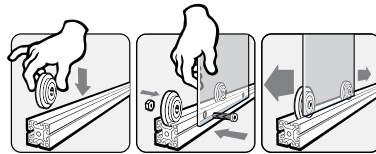
Part Number	Part Image	Price	Description	Fits	Pack Quantity	Recommended Screw Fastener T-Slot Attachment 2	Material	Drawing Link		
166349		\$45.00	Cam Lever Brake	All 15 Series Linear Bearings	1	n/a	Plastic/steel	PDF		
166350		\$28.00	L-Handle Brake					PDF		
151168		\$18.00	Slider	n/a		Fasteners included	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

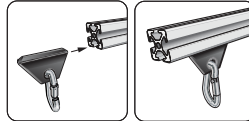
Slides and Rollers Installation

Roller

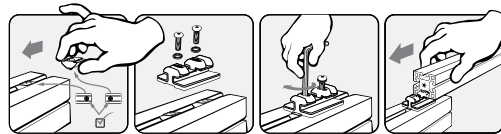


Bolt and nut not included
and not available from
AutomationDirect

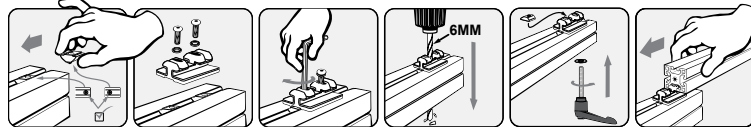
Slider and Snap Hook



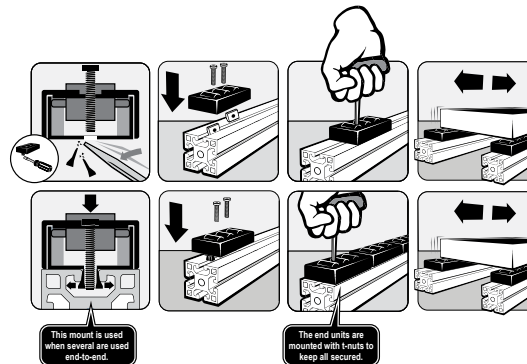
Slider



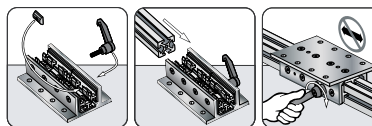
Slider with Clamp Lever



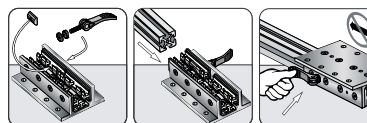
Roller Element



L-Handle Brake



Cam Lever Brake



FATH® T-Slotted Rail Accessories

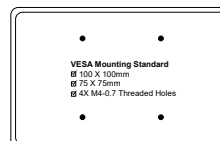
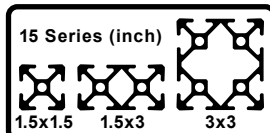
Monitor Mounts



15 Series Monitor Mounts

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

Fits  Slot Size 8

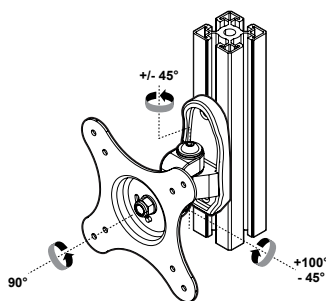


Part Number	Part Image	Price	Description	Load Rating kg [lb]	Pack Quantity	Installation Instructions Link	Drawing Link
162893		\$42.00	Swivel Monitor Mount	15 [33.1]	1	PDF	PDF
162894		\$50.00				PDF	PDF
162895		\$58.00				PDF	PDF
162896		\$92.00	Monitor Mounting Joint			PDF	PDF
162897		\$92.00	Monitor 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

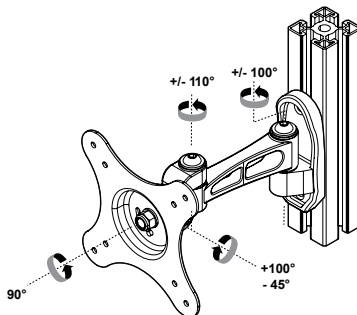
FATH® T-Slotted Rail Accessories

Monitor Mounts - Continued

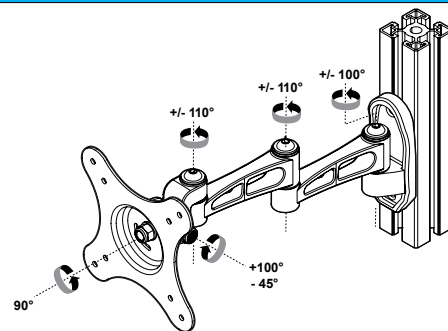
Monitor Mounts Adjustments



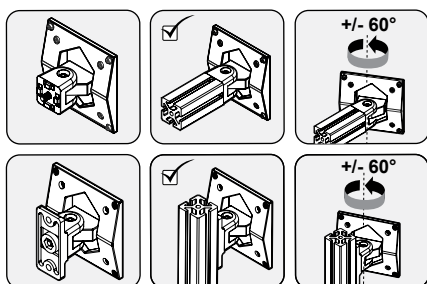
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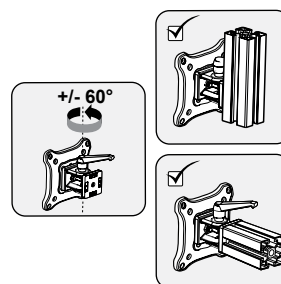
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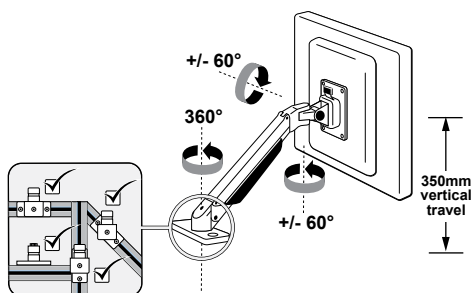
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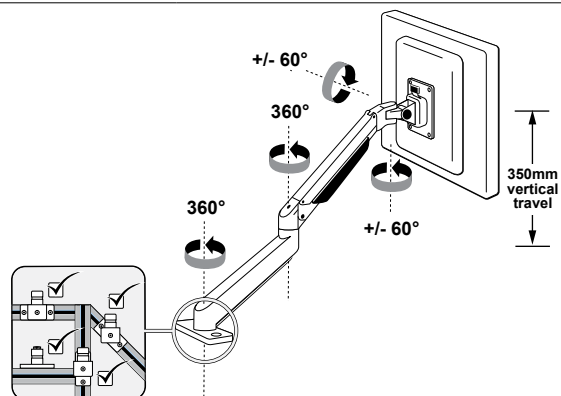
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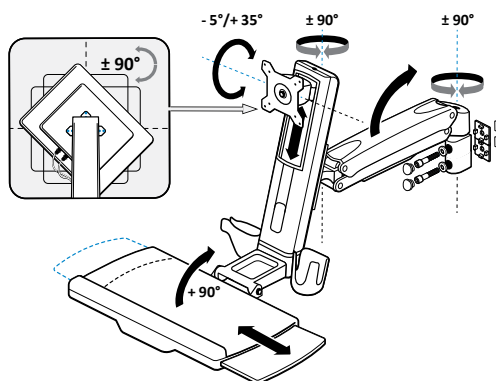
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162899



162900



162901

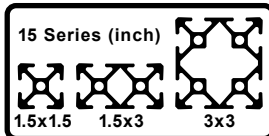
FATH® T-Slotted Rail Accessories

Workstation Components



15 Series Workstation Components

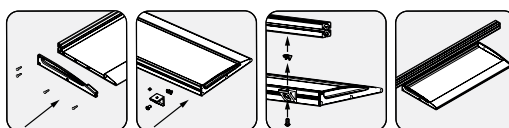
Fits  Slot Size 8



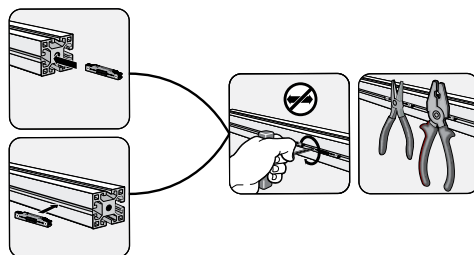
Part Number	Part Image	Price	Description	Load Rating kg [lb]	Pack Quantity	Material	Drawing Link
162902		\$185.00	Keyboard Holder (requires mounting solution, designer's choice)	n/a	1	Aluminum/nylon	PDF
162906		\$8.00	Magnetic Holder			Nylon/steel	PDF
162964		\$9.00	Grab Tray			Nylon	PDF
162965		\$2.00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

Workstation Components Installation

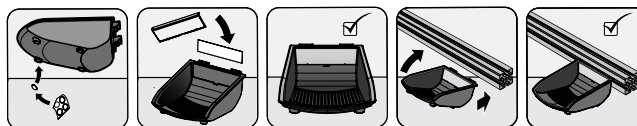
Keyboard Holder (mounting example)



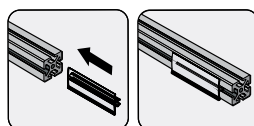
Magnetic Holder



Grab Tray



Label Clip



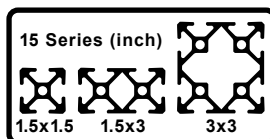
FATH® T-Slotted Rail Accessories

Wire Management



15 Series Wire Management

Fits Slot Size
8

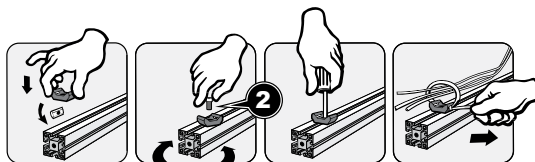


Part Number	Part Image	Price	Description	Pack Quantity	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Material	Drawing Link
151162		\$89.00	Conduit Cover 2000mm long	2	n/a	Polypropylene	PDF
151174		\$15.50	Cross Cable Binding Block	10		Nylon	PDF
151175		\$64.00	Hook And Loop			Glass-filled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



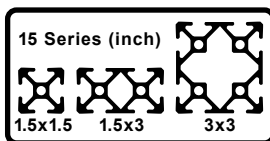
FATH® T-Slotted Rail Accessories

Miscellaneous Accessories



15 Series Miscellaneous Accessories

Fits  Slot Size 8

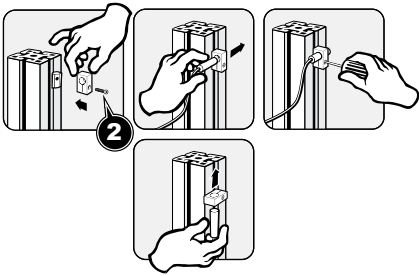
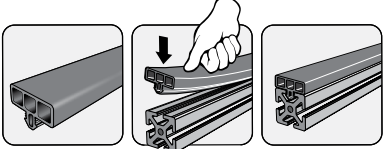
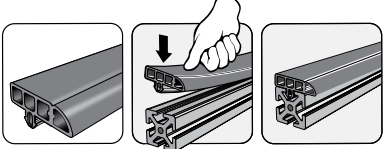
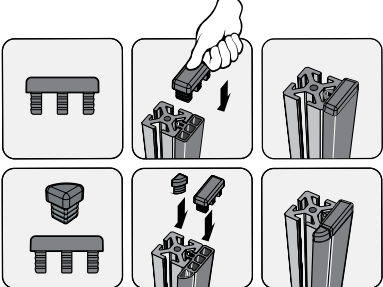


Part Number	Part Image	Price	Description	Requires	Fits Profile	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Pack Quantity	Material	Drawing Link			
151171		\$16.50	End Cap	n/a	1.5 x 1.5in	n/a	10	Glass-filled nylon	PDF			
151172		\$21.00			1.5 x 3in				PDF			
151173		\$37.00			3 x 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						162929 or 162930		10	PDF
162932		\$20.00	Cover Cap for Corner						162930			PDF

*T-Slot Nut also required

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		
