



Aluminum T-Slotted Rail

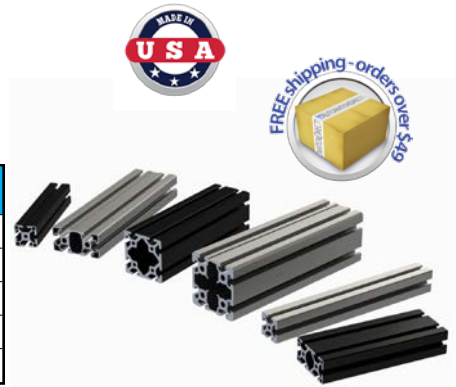
40 Series Metric T-Slotted Aluminum Rail

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				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 (in ⁴ [cm ⁴])	Moment of Inertia Ly (in ⁴ [cm ⁴])	Drawing Link
40-4040C		\$0.26	40 x 40mm	Standard	1.624 [2.417]	0.324 [13.478]	0.324 [13.478]	PDF
40-4040B		\$0.40						PDF
40-4040CL		\$0.21		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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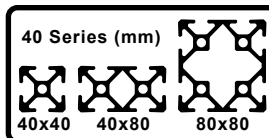
Properties	
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Hardness	Webster Model B 11-12
Straightness	0.0125 inch/ft [1.042 mm/m]
Twist	0.25°/ft [0.25°/305mm]



40 Series (metric) - Continued



Core Hole Ø 6.8 mm



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 (in ⁴ [cm ⁴])	Moment of Inertia Ly (in ⁴ [cm ⁴])	Drawing Link
40-4080C		\$0.47	40 x 80mm	Standard	2.925 [4.353]	.0621 [25.834]	2.846 [118.477]	PDF
40-4080B		\$0.69						PDF
40-4080CL		\$0.41		Light	2.482 [3.694]	0.495 [20.592]	1.760 [73.258]	PDF
40-4080BL		\$0.59						PDF
40-8080C		\$0.68	80 x 80mm	Standard	4.281 [6.371]	4.073 [169.520]	4.073 [169.520]	PDF
40-8080B		\$0.95						PDF

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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

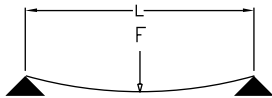
"L" = Length

"W" = Weight

**for reference only*

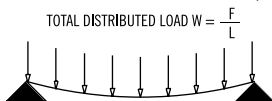
Supported Loads

CONCENTRATED LOAD AT CENTER (simply supported)



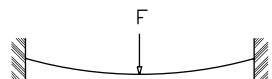
$$\text{MAX DEFLECTION} = \frac{FL^3}{48 EI}$$

UNIFORMLY DISTRIBUTED LOAD (simply supported)



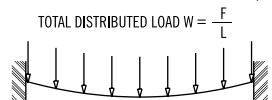
$$\text{MAX DEFLECTION} = \frac{5}{84} \frac{WL^4}{EI}$$

CONCENTRATED LOAD AT CENTER (between fixed supports)



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

UNIFORMLY DISTRIBUTED LOAD (between fixed supports)



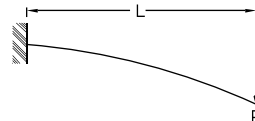
$$\text{MAX DEFLECTION} = \frac{WL^4}{384 EI}$$

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]

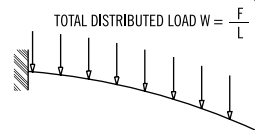
Cantilever Loads

CONCENTRATED LOAD AT CENTER (simply supported)



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

UNIFORMLY DISTRIBUTED LOAD (simply supported)

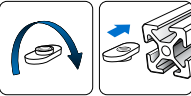


$$\text{MAX DEFLECTION} = \frac{WL^4}{8 EI}$$

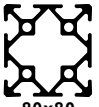
FATH® T-Slotted Rail Accessories

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				



40 Series T-Slot Nuts						
Fits Slot Size 8 40 Series (mm)  40x4040x8080x80						
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		\$9.00	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 40 Series (mm) 40x40 40x80 80x80						
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link
162904		\$9.00	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 40 Series (mm) 40x40 40x80 80x80						
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link
<u>151213</u>		\$6.00	Economy T-Nut	M8-1.25	10	<u>PDF</u>
<u>148802</u>		\$5.50	Double Economy T-Nut		4	<u>PDF</u>
<u>162885</u>		\$9.75	Slide-In Nut		10	<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



40 Series Fasteners								
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
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			5/8 in			Button head socket cap screw
161047		\$5.00		PDF				
161048		\$5.75		3/4 in				
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

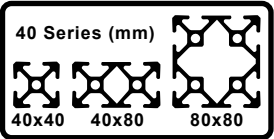
FATH® T-Slotted Rail Accessories

Fasteners - Continued

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		
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	Flanged button head socket cap screw	Gloss black		PDF		
151101		\$6.00		11/16 in				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		10mm				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			10mm			Socket head cap screw	PDF	
161077		\$1.75		12mm	Flat head socket cap screw			PDF		
161091		\$2.50			12mm			Socket head cap screw	PDF	

FATH® T-Slotted Rail Accessories

Fasteners - Continued

40 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

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	
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	PDF				
151183		\$4.75							
151184		\$5.50		Flanged button head socket cap screw	PDF				
161085		\$5.50	18mm	Flat head socket cap screw	Bright zinc	PDF			
161068		\$5.00		Button head socket cap screw		PDF			

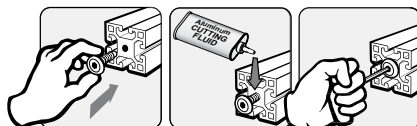
FATH® T-Slotted Rail Accessories

Fasteners - Continued

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	Button head socket cap screw			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

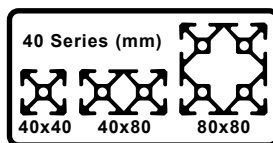
Connecting Components

- 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

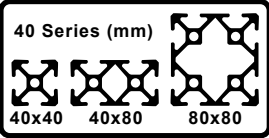


Part Number	Part Image	Price	Description	Fits Profile	Material	Recommended Screw Fastener (ADC Part Number)		Pack Quantity	Drawing Link	
						Core Hole Attachment 1	*T-Slot Attachment 2			
148958		\$10.00	2d Cube Connector	40 x 40mm	Die-cast aluminum	161105	161085	1	PDF	
166369		\$12.00							PDF	
148959		\$11.00	3d Cube Connector				n/a		PDF	
166370		\$13.00							PDF	
151217		\$13.00	Angle Connector	40 x 80mm			161067		PDF	
166371		\$16.00							PDF	
151218		\$12.75							161068	PDF
166372		\$16.00								PDF

*T-Slot Nut **3** also required.

FATH® T-Slotted Rail Accessories

Connecting Components - Continued

40 Series Connecting Components - Continued									
Fits		Slot Size 8		40 Series (mm)					
									
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		
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					PDF	
151106		\$8.50	Milling Connector		Zinc plated steel			PDF	
151109		\$15.50	Connecting Strip					PDF	
162891		\$13.00	Direct Connector		Steel		Fasteners included	1	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	40 Series (mm) 40x40 40x80 80x80					
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 40 Series (mm) 40x40 40x80 80x80						
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

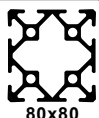
- Connects two T-slot rails together at a 90° angle
- Recommended ADC Fastener based on part feature and slot depth
- Material: varies by part



40 Series Brackets											
Fits		Slot Size 8	40 Series (mm) 40x40 40x80 80x80								
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						
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		n/a		151183 or 151184	1	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

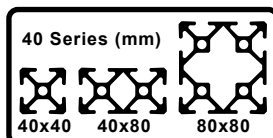
40 Series Brackets - Cont'd								
Fits		Slot Size 8	40 Series (mm)    40x40 40x80 80x80					
Part Number	Part Image	Price	Description	Recommended Screw Fastener (ADC Part Number)		Pack Quantity	Material	Drawing Link
				Core Hole Attachment 1	*T-Slot Attachment 2			
151226		\$3.75	Gusseted Inside Corner 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)		Pack Quantity	Material	Drawing Link
				Core Hole Attachment ①	*T-Slot Attachment ②			
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

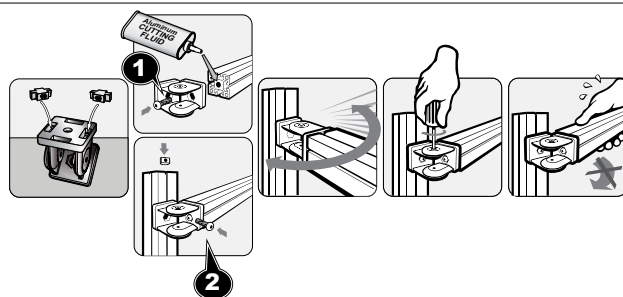
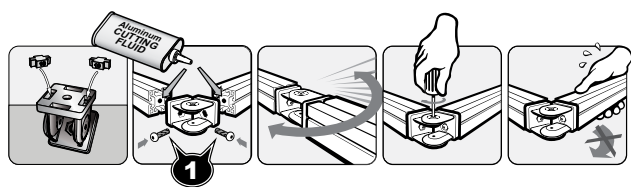
*T-Slot Nut also required.

Brackets Installation

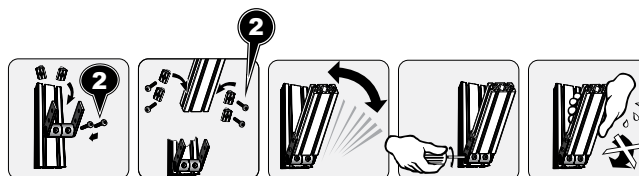
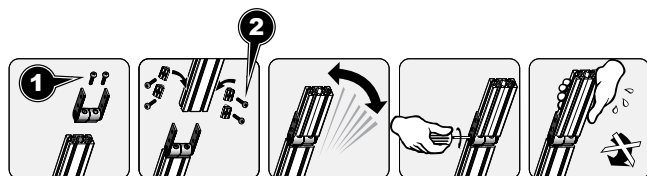
Core Hole Installation

T-Slot Installation

Pivot Joint*



Pivot Joint

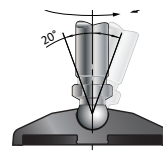


*For 45 series installation, the 10mm embossed key should face toward the aluminum extrusion upon assembly.

FATH® T-Slotted Rail Accessories

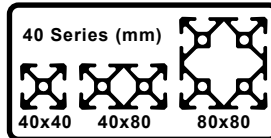
Bases

- 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)		Pack Quantity	Material	Drawing Link
							Core Hole Attachment ①	*T-Slot Attachment ②			
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	1.57 in [39.0 mm]	M12-1.75 x 66mm Swivel Foot Threaded Rod with 15mm ball	Transport/Base Plate 151232 or 151233	770 [1698]**	n/a	n/a	1	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		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:

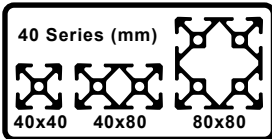
Threaded rod load rating = 210kg [463lb]

Swivel base load rating = 3000kg [6614lb]

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

FATH® T-Slotted Rail Accessories

Bases - Continued

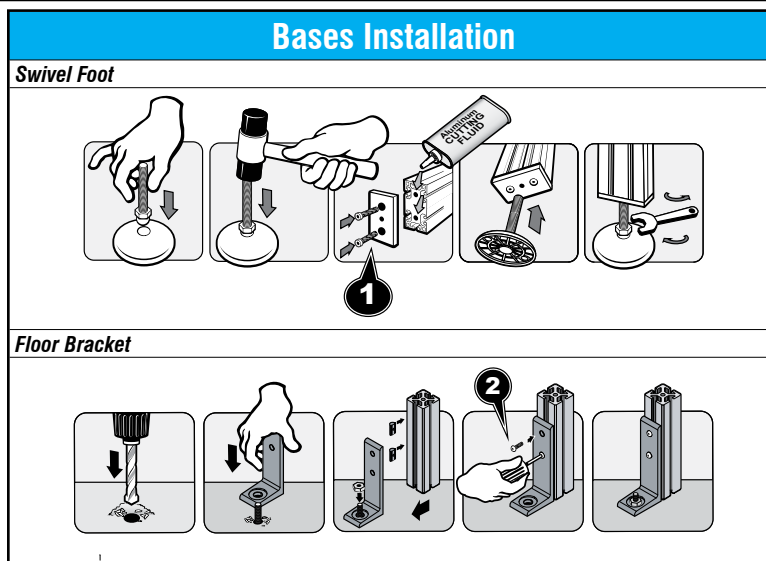
40 Series Bases - Continued															
		Fits		Slot Size 											
Part Number	Part Image	Price	Diameter	Description	Fits	Load Rating kg [lb]	Recommended Screw Fastener (ADC Part Number)		Pack Quantity	Material	Drawing Link				
							Core Hole Attachment 1	*T-Slot Attachment 2							
151069		\$6.00	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	n/a	1	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											
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			
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									PDF
166392		\$35.00									PDF
162960		\$47.00		Support Bracket	40 x 80mm, 80 x 80mm			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.



FATH® T-Slotted Rail Accessories

Casters

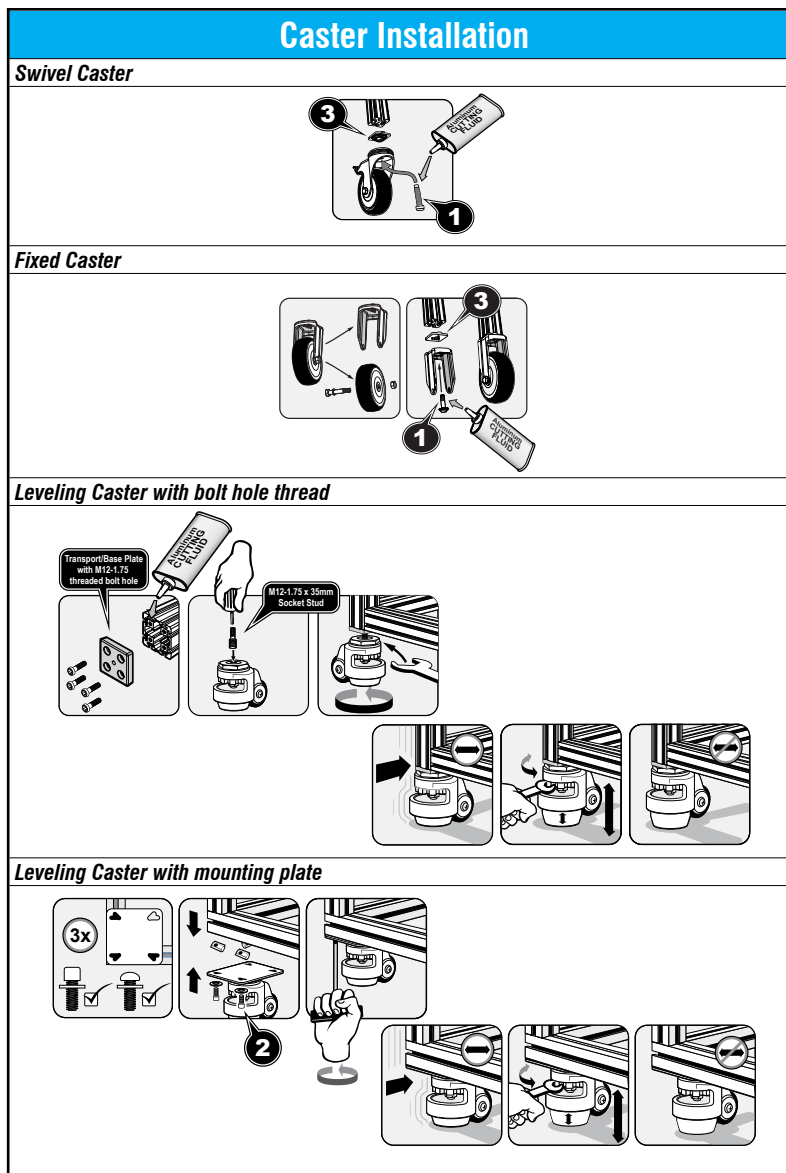
- Recommended ADC Fastener based on part feature and core hole
- Material: varies by part

40 Series Casters										
Fits		Slot Size 8		40 Series (mm) 40x40 40x80 80x80						
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				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]	161060	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

Hinges

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



40 Series Hinges

Fits

Slot Size

8

40 Series (mm)

40x40

40x80

80x80

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

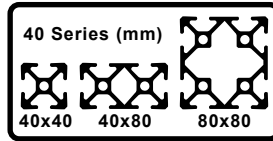
Panel and Door Elements

- 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)		Pack Quantity	Material	Drawing Link
				Core Hole Attachment ①	*T-Slot Attachment ②			
151146		\$6.00	Bridge Handle	n/a	161063	1	Fiberglass reinforced plastic	PDF
151147		\$6.00			161067			PDF
151148		\$6.25	Cover Cap ③		n/a			PDF
151149		\$6.50	Comfort Handle		161068			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		161099			PDF
151154		\$47.00	Compact Slam Latch	Fasteners included	161061	1	Die-cast aluminum	PDF
151155		\$58.00	Compact Sliding Door Latch					PDF
162971		\$33.00	Sliding Door Guide		n/a		Die-cast aluminum/nylon	PDF
151156		\$37.00	Emergency Opener	n/a	161060		Fiberglass reinforced plastic	PDF

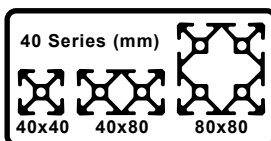
*T-Slot Nut also required

FATH® T-Slotted Rail Accessories

Panel and Door Elements - Continued

40 Series Panel and Door Elements - Continued

Fits



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			
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	1	Lacquered aluminum	PDF
162925		\$5.75					Powder-coated aluminum	PDF
162928		\$500.00	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

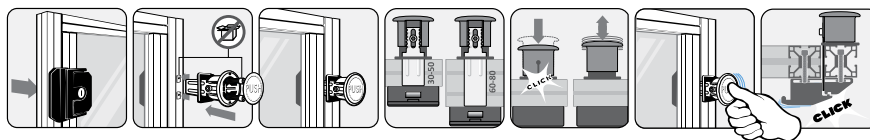
*T-Slot Nut also required

FATH® T-Slotted Rail Accessories

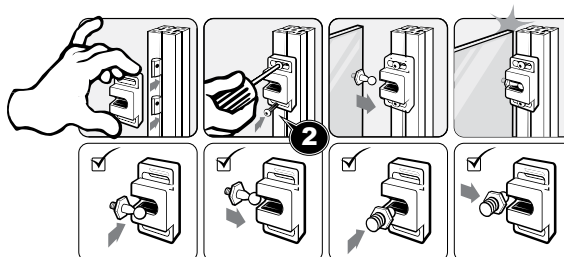
Panel and Door Elements - Continued

Panel and Door Elements Installation - Continued

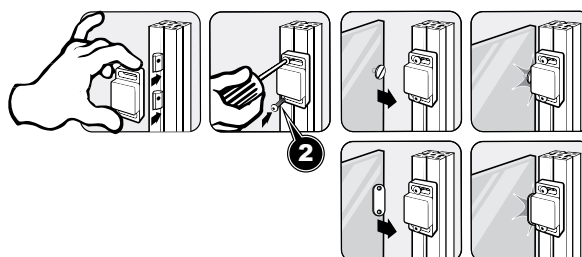
Emergency Opener



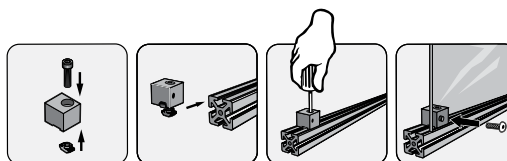
Ball Catch



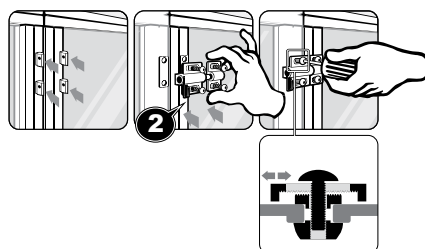
Magnetic Catch



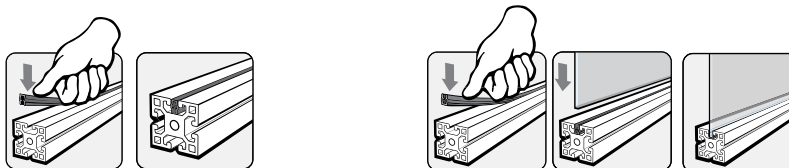
Panel Mount Block



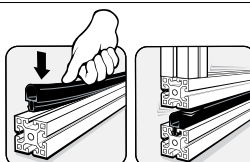
Door Latch



Cover and Reduction Profile

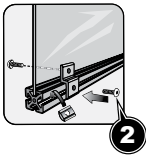
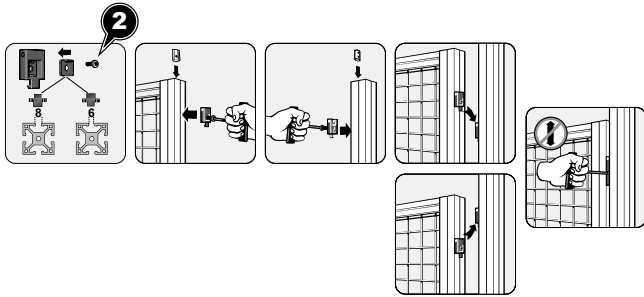
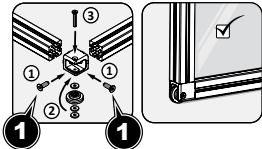


Sealing Profile



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

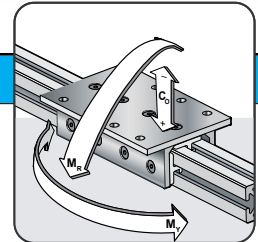
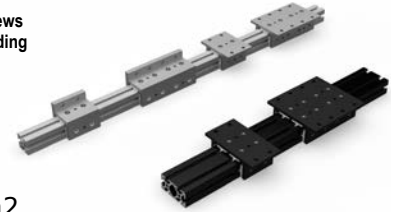
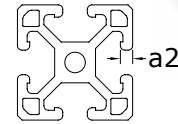
Linear Bearings

- 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

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.



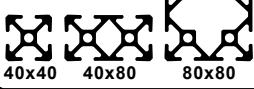
Adjust side screws
for optimum sliding
performance



40 Series Slides and Rollers

Fits Slot Size 8

40 Series (mm)



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]				
166393		\$60.00	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		\$60.00									PDF		
166395		\$120.00	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		4000 [889]	2000 [450]	100 [74]	200 [147]		50 [37]	150 [111]	PDF
166398		\$80.00											PDF
166399		\$150.00	4-slot, double flange, long linear bearing			2000 [450]	100 [74]	200 [147]	200 [147]		200 [147]	200 [147]	PDF
166400		\$160.00											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]		150 [111]	150 [111]	PDF
166402		\$60.00											PDF
166403		\$120.00	3-slot, single flange, long linear bearing			2000 [450]	1000 [225]	80 [59]	200 [147]		200 [147]	200 [147]	PDF
166404		\$120.00											PDF

FATH® T-Slotted Rail Accessories

Slides and Rollers - Continued

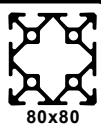


40 Series Slides and Rollers - Cont'd

Fits



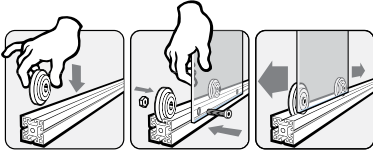
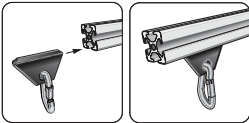
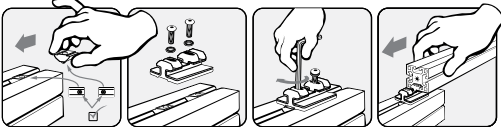
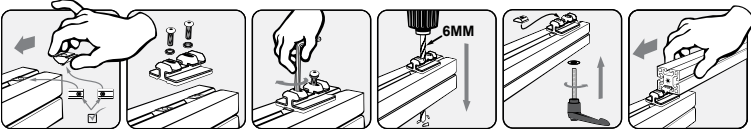
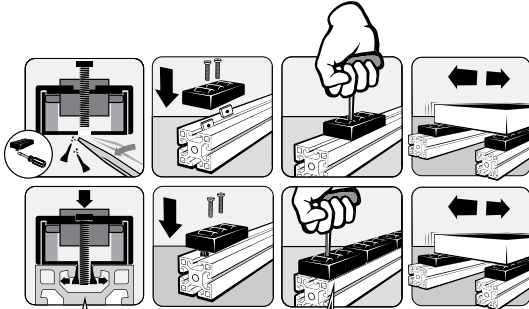
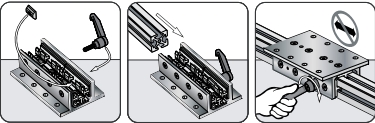
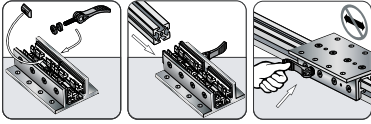
40 Series (mm)



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
151089		\$4.50	Snap Hook	Slider 151166		Zinc plated steel	PDF			
163020		\$13.75	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	 This mount is used when several are used end-to-end. The end units are mounted with T-nuts to keep all secured.
L-Handle Brake	
Cam Lever Brake	

FATH® T-Slotted Rail Accessories

Monitor Mounts

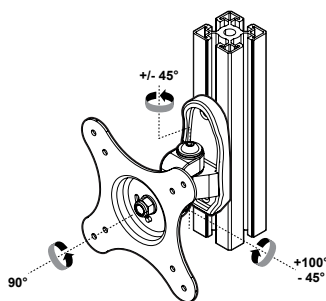


40 Series Monitor Mounts							
- Fits monitors with VESA mounting standard - Durable steel construction - Mounting hardware included for several mounting locations		Fits Slot Size 8	40 Series (mm) 40x40 40x80 80x80	VESA Mounting Standard • •			

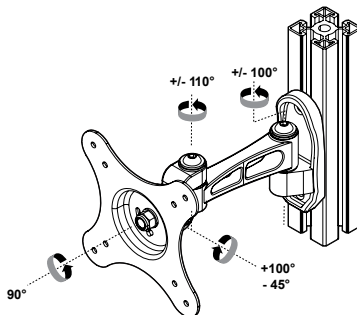
FATH® T-Slotted Rail Accessories

Monitor Mounts - Continued

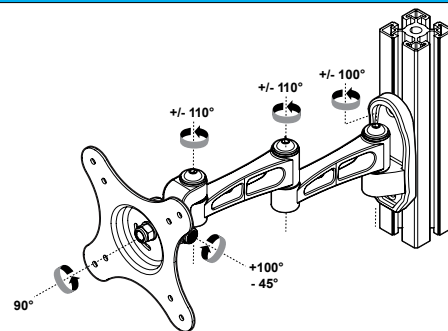
Monitor Mounts Adjustments



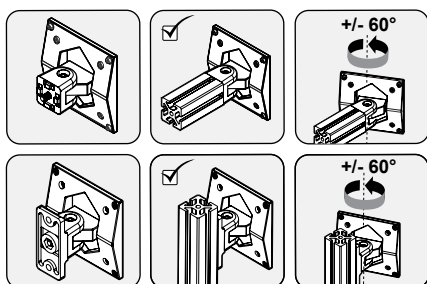
162893



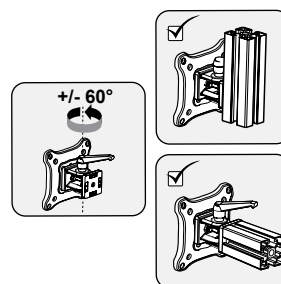
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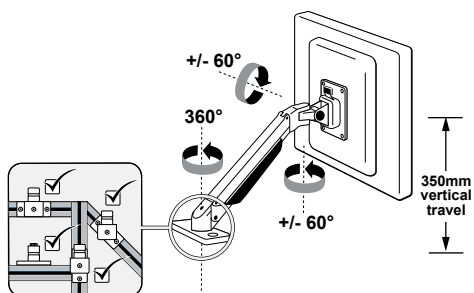
162895



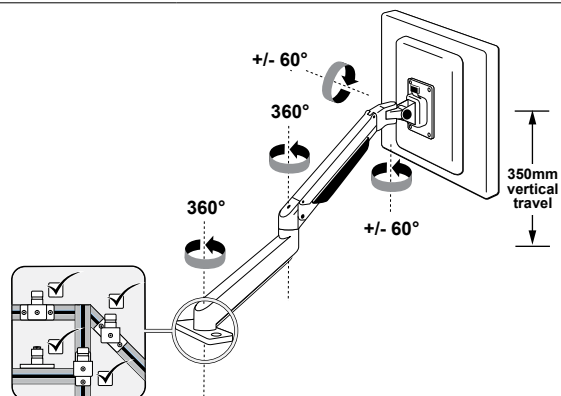
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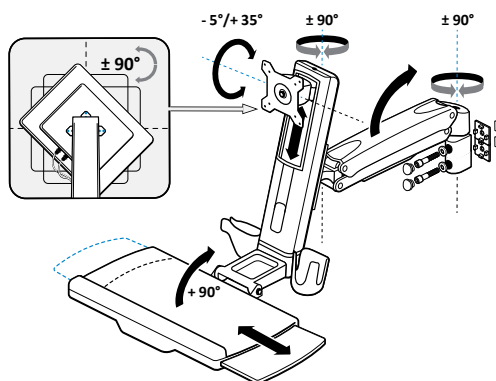
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162899



162900



162901

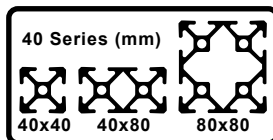
FATH® T-Slotted Rail Accessories

Workstation Components



40 Series Workstation Components

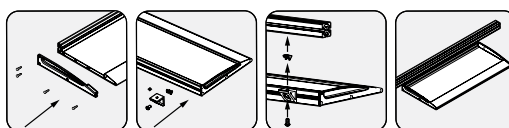
Fits  Slot Size



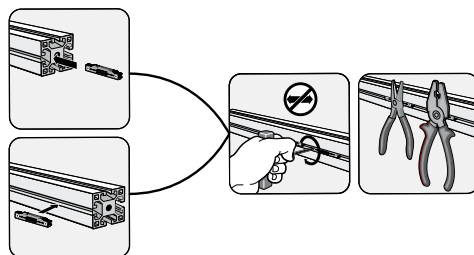
Part Number	Part Image	Price	Description	Load Rating kg [lb]	Pack Quantity	Material	Drawing Link
<u>162902</u>		\$185.00	Keyboard Holder (requires mounting solution, designer's choice)	n/a	1	Aluminum/nylon	<u>PDF</u>
<u>162906</u>		\$8.00	Magnetic Holder			Nylon/steel	<u>PDF</u>
<u>162909</u>		\$5.25	Top Angle Clamp			Nylon/steel	<u>PDF</u>
<u>162964</u>		\$9.00	Grab Tray			Nylon	<u>PDF</u>
<u>162965</u>		\$2.00	Label Clip			PVC	<u>PDF</u>

Workstation Components Installation

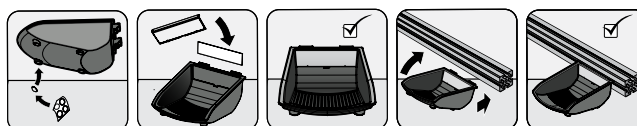
Keyboard Holder (mounting example)



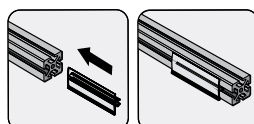
Magnetic Holder



Grab Tray



Label Clip

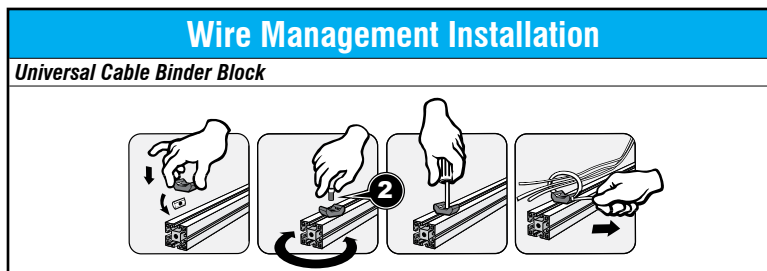


FATH® T-Slotted Rail Accessories

Wire Management



40 Series Wire Management							
Fits		Slot Size 8	40 Series (mm)    40x40 40x80 80x80				
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	161058	Nylon	PDF
*T-Slot Nut also required							



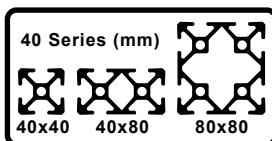
FATH® T-Slotted Rail Accessories

Miscellaneous Accessories



40 Series Miscellaneous Accessories

Fits Slot Size 8

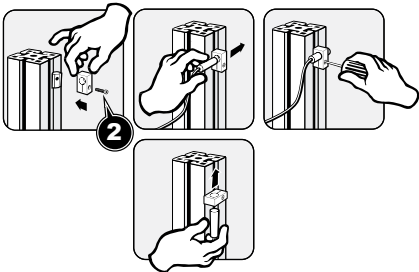
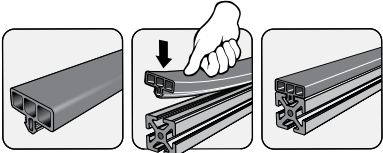
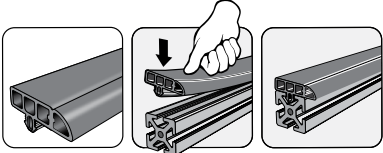
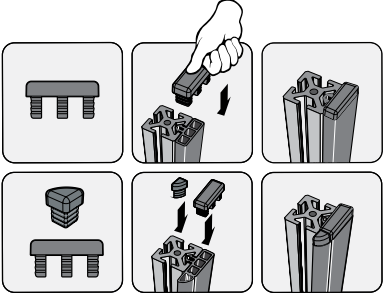


Part Number	Part Image	Price	Description	Requires	Fits Profile	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Pack Quantity	Material	Drawing Link	
151234		\$16.50	End Cap	n/a	40 x 40mm	n/a	10	Glass-filled nylon	PDF	
151235		\$20.50			40 x 80mm				PDF	
151236		\$32.00			80 x 80mm				PDF	
151091		\$6.00	Stop Bumper		All 40 Series	BHCS M4-0.7 x 25mm (not sold by ADC)	1	Rubber/zinc-plated steel	PDF	
151170		\$9.00							PDF	
162973		\$3.25	Sensor Mounting Block for 8mm proximity sensor		All 40 Series		Nylon	PDF		
162974		\$3.25	Sensor Mounting Block for 12mm proximity sensor					PDF		
162929		\$240.00	Side Protection Profile				n/a	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

Workstation Components Installation		
Sensor Mounting Block		
		
Side Protection Profile		
		
Corner Protection Profile		
		
Cover Cap for Side		
		
Cover Cap for Corner		
