



Aluminum T-Slotted Rail

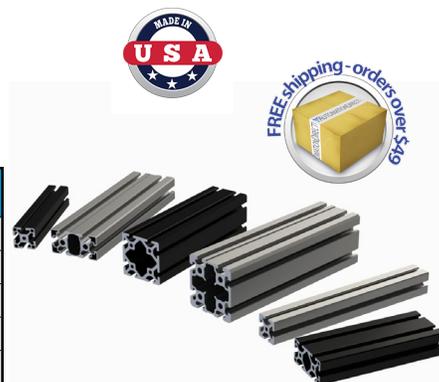
40 Series Metric T-Slotted Aluminum Rail

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	Moment of Inertia Ly	Drawing Link
40-4040C		\$0.26	40 x 40mm	Standard	1.624 [2.417]	0.324 in ⁴ [13.478 cm ⁴]	0.324 in ⁴ [13.478 cm ⁴]	PDF
40-4040B		\$0.40						PDF
40-4040CL		\$0.21		Light	1.170 [1.741]	0.219 in ⁴ [9.110 cm ⁴]	0.219 in ⁴ [9.110 cm ⁴]	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.





Aluminum T-Slotted Rail

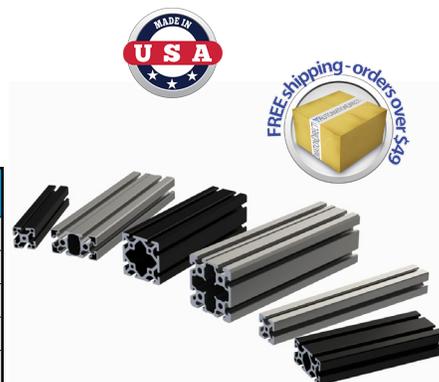
40 Series Metric T-Slotted Aluminum Rail

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



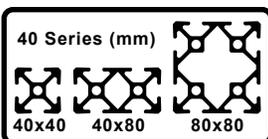
Properties	
Material	Aluminum 6063-T6
Finish	Clear or Black Anodize
Hardness	Webster Model B 11-12
Straightness	0.0125 inch/ft [1.042 mm/m]
Twist	0.25°/ft [0.25°/305mm]



40 Series (metric) - 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	Moment of Inertia Ly	Drawing Link
40-4080C		\$0.47	40 x 80mm	Standard	2.925 [4.353]	.0621 in ⁴ [25.834cm ⁴]	2.848 in ⁴ [118.477 cm ⁴]	PDF
40-4080B		\$0.69						PDF
40-4080CL		\$0.41		Light	2.482 [3.694]	0.495 in ⁴ [20.592 cm ⁴]	1.761 in ⁴ [73.258 cm ⁴]	PDF
40-4080BL		\$0.59						PDF
40-8080C		\$0.68	80 x 80mm	Standard	4.281 [6.371]	4.075 in ⁴ [169.520 cm ⁴]	4.075 in ⁴ [169.520 cm ⁴]	PDF
40-8080B		\$0.95						PDF

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

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



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

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

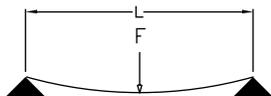
"L" = Length

"W" = Weight

**for reference only*

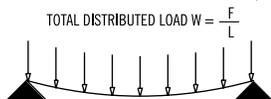
Supported Loads

CONCENTRATED LOAD AT CENTER (simply supported)



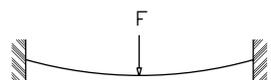
$$\text{MAX DEFLECTION} = \frac{FL^3}{48 EI}$$

UNIFORMLY DISTRIBUTED LOAD (simply supported)



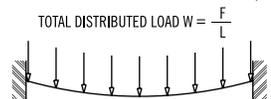
$$\text{MAX DEFLECTION} = \frac{5}{84} \frac{WL^4}{EI}$$

CONCENTRATED LOAD AT CENTER (between fixed supports)



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

UNIFORMLY DISTRIBUTED LOAD (between fixed supports)

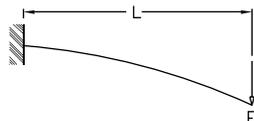


$$\text{MAX DEFLECTION} = \frac{WL^4}{384 EI}$$

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]

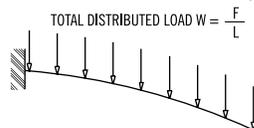
Cantilever Loads

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

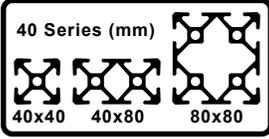


T-Slot Nuts Selection				
Part Image	Nut Type	Installation	Holds Position Without Screw	ESD Connection
	Double Economy T-Nut			No
	Economy T-Nut			
	Hammer Nut		No	Yes
	Slide-In Nut			
	Roll-In Nut with Leaf Spring		Yes	No
	Roll-In Nut with Spring Loaded Ball			

40 Series T-Slot Nuts						
		Fits Slot Size 8				
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link
161126		\$8.25	Hammer Nut	10-32 UNF	10	PDF
162996		\$17.50	Roll-In Nut			PDF
162903		\$9.00	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

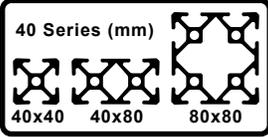
FATH® T-Slotted Rail Accessories

T-Slot Nuts - Continued

40 Series T-Slot Nuts - Continued						
		Fits  Slot Size 8				
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
162999		\$17.50	Roll-In Nut	M5-0.8		PDF
161130		\$8.00	Hammer Nut			PDF
161120		\$16.75	Roll-In Nut			PDF
163000		\$17.50				PDF
151214		\$9.00				Hammer Nut
162884		\$9.75	Slide-In Nut	PDF		
151215		\$19.00	Roll-In Nut	PDF		
163001		\$17.50		PDF		

FATH® T-Slotted Rail Accessories

T-Slot Nuts - Continued

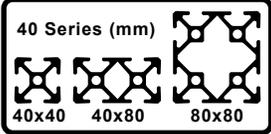
40 Series T-Slot Nuts - Continued						
		Fits  Slot Size 8				
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link
<u>151213</u>		\$6.00	Economy T-Nut	M8-1.25	10	<u>PDF</u>
<u>148802</u>		\$5.50	Double Economy T-Nut		4	<u>PDF</u>
<u>162885</u>		\$9.75	Slide-In Nut		10	<u>PDF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

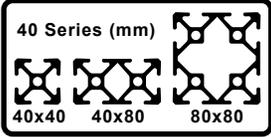
- Choose from 4 Head types in numerous lengths
- Hex socket head
- Select desired T-Slot nut style with corresponding thread size.
- Material: Black zinc plated or bright zinc plated steel, prevents corrosion better than typical black oxide coatings



40 Series Fasteners								
Fits 								
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link	
162994		\$8.00	8-32 UNF x 3/8in	Button head socket cap screw	Flat black	10	PDF	
161073		\$7.75	8-32 UNF x 1/2in	Flat head socket cap screw			PDF	
162993		\$7.50	10-32 UNF x 3/8in	Button head socket cap screw			PDF	
162995		\$7.75	10-32 UNF x 1/2in	Socket head cap screw			PDF	
161046		\$4.75		Flat head socket cap screw			PDF	
161047		\$5.00	10-32 UNF x 5/8in	Button head socket cap screw			PDF	
161048		\$5.75	10-32 UNF x 3/4in	Button head socket cap screw			PDF	
161074		\$6.25	1/4-20 UNC x 1/2in	Flat head socket cap screw			Gloss black	PDF
151040		\$4.25		Button head socket cap screw				PDF
151041		\$5.25		Flanged button head socket cap screw			PDF	
161049		\$4.50	1/4-20 UNC x 9/16in	Button head socket cap screw	Flat black	PDF		
161075		\$6.25	1/4-20 UNC x 5/8in	Flat head socket cap screw		PDF		
161050		\$4.75		Button head socket cap screw		PDF		
161087		\$4.00		Socket head cap screw		PDF		

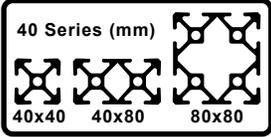
FATH® T-Slotted Rail Accessories

Fasteners - Continued

40 Series Fasteners - Continued							
		Fits 					
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link
161051		\$4.75	1/4-20 UNC x 3/4in	Button head socket cap screw	Flat black	10	PDF
161052		\$5.25	1/4-20 UNC x 1in				PDF
151100		\$5.25	5/16-18 UNC x 5/8in				PDF
151101		\$6.00	5/16-18 UNC x 11/16in	Flanged button head socket cap screw	Gloss black		PDF
161053		\$5.75	5/16-18 UNC x 1/2in	Button head socket cap screw	Flat black		PDF
161054		\$6.50	5/16-18 UNC x 3/4in				PDF
161055		\$7.50	5/16-18 UNC x 1in				PDF
161088		\$2.25	M4-0.7 x 8mm	Socket head cap screw	Bright zinc		PDF
161089		\$2.50	M4-0.7 x 10mm				PDF
161056		\$1.00					Button head socket cap screw
161076		\$1.50	M4-0.7 x 12mm	Flat head socket cap screw		PDF	
161057		\$1.25	M5-0.8 x 10mm	Button head socket cap screw		PDF	
161090		\$2.50				Socket head cap screw	PDF
161077		\$1.75	M5-0.8 x 12mm	Flat head socket cap screw		PDF	
161091		\$2.50				Socket head cap screw	PDF

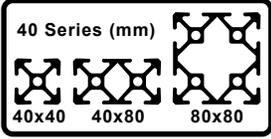
FATH® T-Slotted Rail Accessories

Fasteners - Continued

40 Series Fasteners - Continued							
		Fits 					
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link
161058		\$1.75	M5-0.8 x 12mm	Button head socket cap screw	Bright zinc	10	PDF
161092		\$2.50	M6-1.0 x 10mm	Socket head cap screw			PDF
161078		\$2.25	M6-1.0 x 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	M6-1.0 x 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		Flat head socket cap screw			PDF
161061		\$2.50	M6-1.0 x 16mm	Button head socket cap screw			PDF
161095		\$2.75		Socket head cap screw			PDF
161062		\$2.75	M6-1.0 x 18mm	Button head socket cap screw			PDF
161096		\$3.00		Socket head cap screw			PDF
161081		\$2.50	M6-1.0 x 20mm	Flat head socket cap screw			PDF
161063		\$2.75		Button head socket cap screw	PDF		

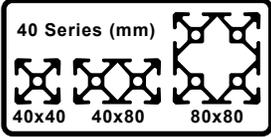
FATH® T-Slotted Rail Accessories

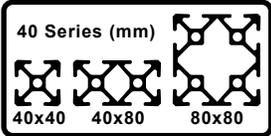
Fasteners - Continued

40 Series Fasteners - Continued							
		Fits 					
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link
161097		\$3.25	M6-1.0 x 20mm	Socket head cap screw	Bright zinc	10	PDF
161064		\$3.25	M6-1.0 x 25mm	Button head socket cap screw			PDF
161082		\$4.75	M8-1.25 x 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	M8-1.25 x 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 x 16mm	Flat head socket cap screw			PDF
161100		\$5.50		Socket head cap screw			PDF
161067		\$4.50		Button head socket cap screw	Gloss black	PDF	
151183		\$4.75	Flanged button head socket cap screw	PDF			
151184		\$5.50	M8-1.25 x 18mm	Flanged button head socket cap screw	Bright zinc	PDF	
161085		\$5.50		Flat head socket cap screw		PDF	
161068		\$5.00		Button head socket cap screw	PDF		

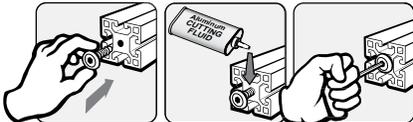
FATH® T-Slotted Rail Accessories

Fasteners - Continued

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

40 Series Self Forming / Tapping Screws							
		Fits 				Works with Aluminum with hole diameter 0.256" - 0.276" [6.6 - 7.0 mm]	
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link
161105		\$17.00	7 x 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	7 x 40mm	Self-Tapping Screw Button head socket cap			PDF

Self Forming / Tapping Screw Installation



FATH® T-Slotted Rail Accessories

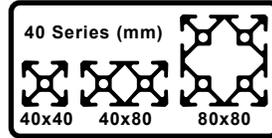
Connecting Components

- 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

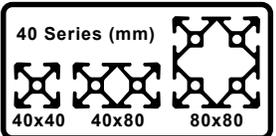


Part Number	Part Image	Price	Description	Fits Profile	Material	Recommended Screw Fastener (ADC Part Number)		Pack Quantity	Drawing Link
						Core Hole Attachment 1	*T-Slot Attachment 2		
148958		\$10.00	2d Cube Connector	40 x 40mm	Die-cast aluminum	161105	161085	1	PDF
148959		\$11.00	3d Cube Connector				n/a		PDF
151217		\$13.00	Angle Connector				161067		PDF
151218		\$11.00					40 x 80mm		161068
151102		\$23.50	Duo Connector	All 40 Series	Steel	n/a	10	PDF	
151103		\$96.00	T-Matic Connector		Zinc plated steel			PDF	
151104		\$59.00	Automatic Connector		Steel			n/a	PDF
151105		\$9.50	Automatic Butt Connector		Zinc plated steel		1	PDF	
151106		\$8.50	Milling Connector					PDF	
151109		\$15.50	Connecting Strip					PDF	
162891		\$13.00	Direct Connector					Steel	Fasteners included

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

FATH® T-Slotted Rail Accessories

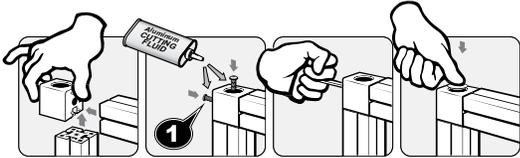
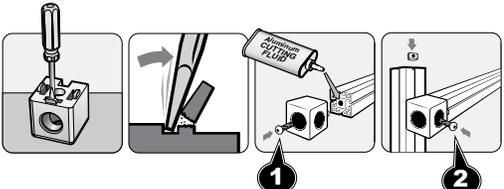
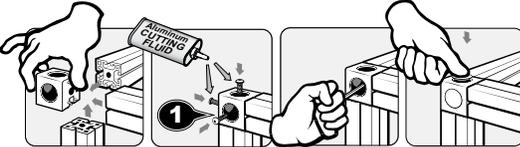
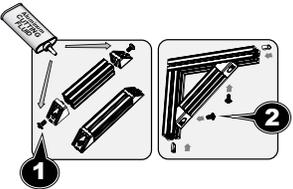
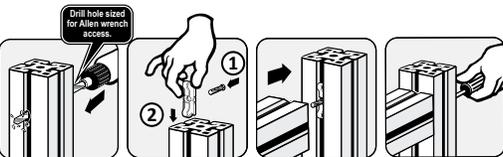
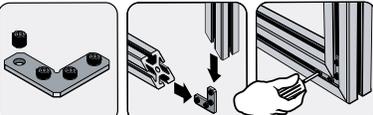
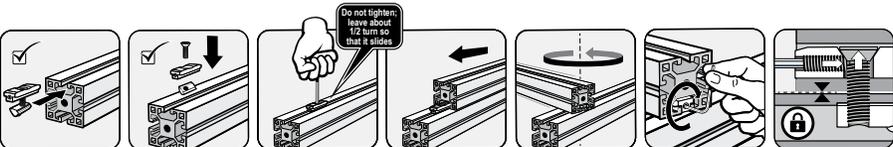
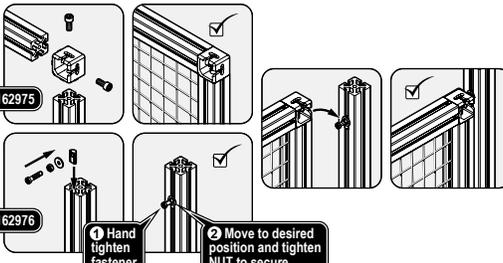
Connecting Components - Continued

40 Series Connecting Components - Continued									
		Fits 							
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		
162961		\$11.50	Miter Connector	All 40 Series	Steel	n/a	M8-1.25 x 8mm set screw (4) included	1	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

*T-Slot Nut also required.

FATH® T-Slotted Rail Accessories

Connecting Components - Continued

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

FATH® T-Slotted Rail Accessories

Connecting Components - Continued

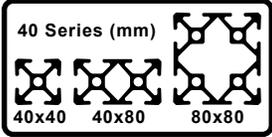
Connecting Components Installation	
T-Slot Installation	
Duo Connector	
T-matic Connector	
Automatic Connector	
Automatic Butt Connector	
Milling Connector	
Connecting Strip	

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						
<i>Fits</i>  Slot Size 8						
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Drawing Link
148850		\$5.75	Straight Flat Plate	151183 or 151184	1	PDF
162986		\$8.00				PDF
148856		\$12.00				PDF
148853		\$11.50	Square Flat Plate			PDF
148858		\$12.00	Rectangular Flat Plate			PDF
151219		\$14.50	Flat Plate			PDF
151220		\$16.50	T-Shaped Flat Plate			PDF
151221		\$27.50	T-Shaped Flat Plate			PDF

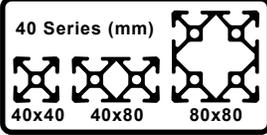
*T-Slot Nut also required.

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

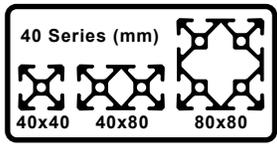


40 Series Brackets									
		Fits 							
Part Number	Part Image	Price	Description	Recommended Screw Fastener (ADC Part Number)		Pack Quantity	Material	Drawing Link	
				Core Hole Attachment ①	*T-Slot Attachment ②				
151125		\$7.75	Angle Bracket	n/a		1	Die-cast aluminum	PDF	
151126		\$11.50						151241	PDF
151222		\$4.25	Inside Corner Bracket			151183 or 151184	1	Anodized aluminum	PDF
151223		\$6.25	Wide Inside Corner Bracket						PDF
151224		\$6.25	Tall Inside Corner Bracket		PDF				
151225		\$11.50	Inside Corner Bracket		PDF				
151226		\$3.75	Gusseted Inside Corner Bracket		PDF				
151227		\$9.00	Tall Gusseted Inside Corner Bracket		PDF				
148911		\$6.75	Wide Gusseted Inside Corner Bracket		PDF				
151228		\$14.50	Gusseted Inside Corner Bracket		PDF				
151229		\$29.50	Pivot Joint	161105	161066	1	Die-cast zinc	PDF	
151230		\$39.50	Pivot Joint With Locking Handle					PDF	

*T-Slot Nut also required.

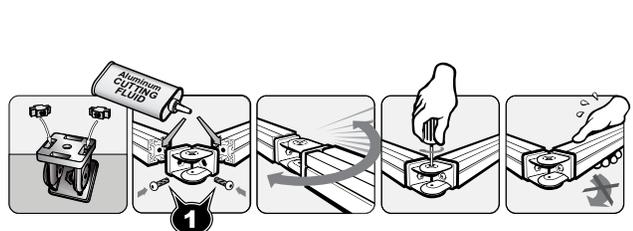
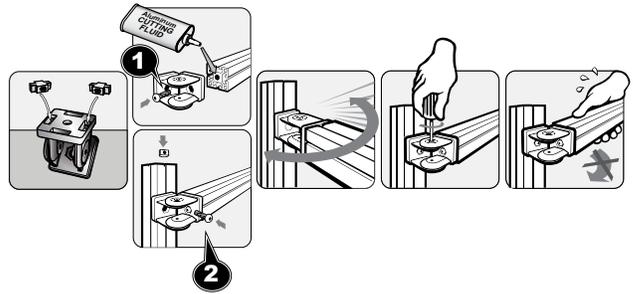
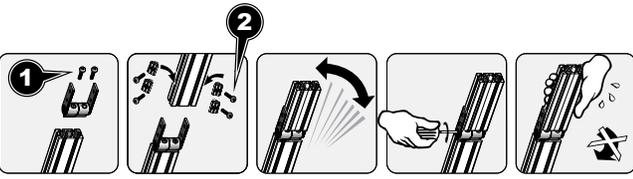
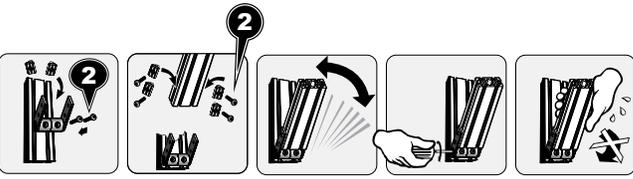
FATH® T-Slotted Rail Accessories

Brackets - Continued

40 Series Brackets - 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			
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

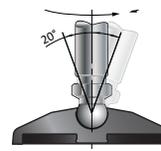
Core Hole Installation	T-Slot Installation
Pivot Joint*	
	
Pivot Joint	
	

*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

40 Series (mm)

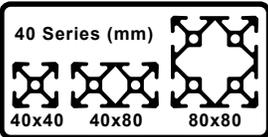
40x40 40x80 80x80

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	1	2	1	Die-cast zinc	PDF					
151233		\$23.00			80 x 80mm							161105 (4) included with kit	PDF			
162948		\$20.00		40 x 80mm	80 x 80mm		n/a	1			2	1	Die-cast zinc	PDF		
162949		\$25.00		M16-2.0 Transport/Base Plate											161105 (2) included with kit	PDF
162950		\$25.00		M20-2.5 Transport/Base Plate											161105 (4) included with kit	PDF
151231		\$4.50		n/a	M12-1.75 x 66mm Swivel Foot Threaded Rod with 15mm ball		Transport/Base Plate 151232 or 151233	n/a			1	2	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		1.57 in [39.0 mm]	Swivel Base With Anti-Slip Plate		Any 15mm ball Threaded Rod	n/a			1	2	1	Nylon	PDF	
151071		\$9.50	900 [1984]			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

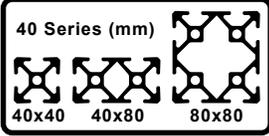
Bases - Continued

40 Series Bases - Continued											
											
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	PDF								
151256		\$10.00	PDF								
151257		\$24.00	3.90 in [99.0 mm]			3500 [7716]				Die-cast zinc	PDF
151258		\$24.00									PDF
162933		\$12.50	See 2D drawing	Extended Swivel Base	Any 15mm ball Threaded Rod	1000 [2204]	n/a		Nylon	PDF	
162934		\$27.00				3000 [6613]				Die-cast zinc	PDF

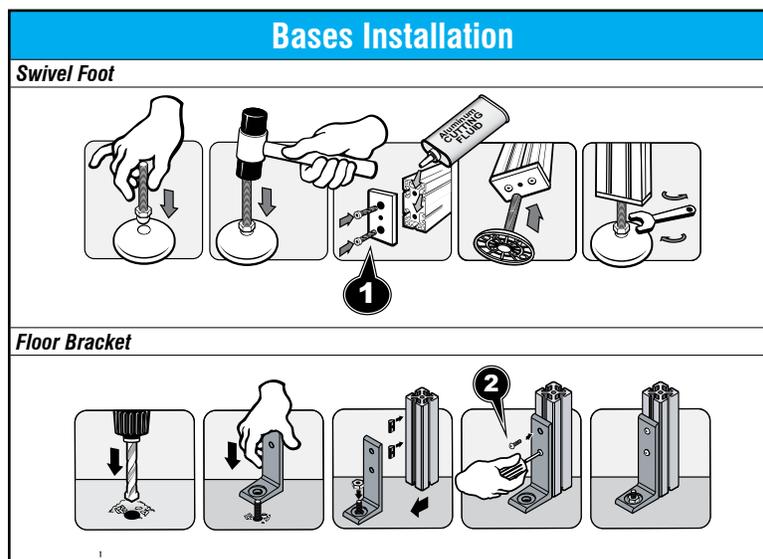
*T-Slot Nut also required.
 Load rating of a swivel foot assembly is based on the part with the lowest load rating, typically the threaded rod.
 Example:
 Threaded rod load rating = 210kg [463lb]
 Swivel base load rating = 3000kg [6614lb]
 Swivel foot assembly load rating = 210kg [463lb]

FATH® T-Slotted Rail Accessories

Bases - Continued

40 Series Bases - Continued												
		Fits 										
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	n/a	1	Die-cast aluminum	PDF	
162890		\$25.50									161068	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

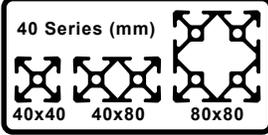
*T-Slot Nut also required.



FATH® T-Slotted Rail Accessories

Casters

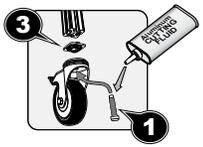
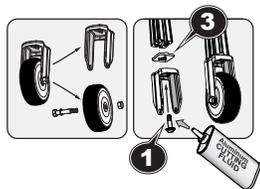
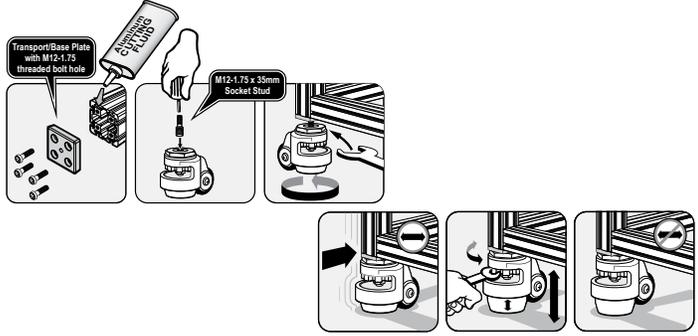
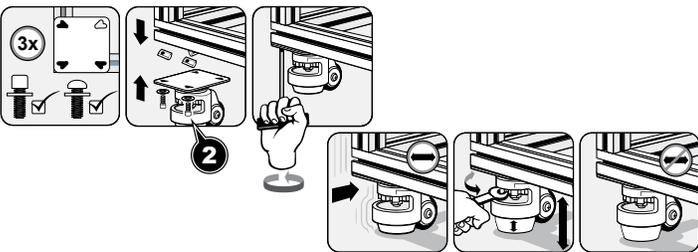
- Recommended ADC Fastener based on part feature and core hole
- Material: varies by part

40 Series Casters											
		Fits 									
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	1		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	1	Thermoplastic polyurethane/ nylon/steel	PDF
151138		\$49.00	Fixed Caster								161053
163010		\$40.00	Leveling Caster	n/a	250 [551]	n/a	1			Die-cast aluminum/ steel/nylon/ rubber	PDF
163011		\$52.00			500 [1102]						PDF
163012		\$41.00			250 [551]			PDF			
163013		\$56.00			500 [1102]			PDF			

*T-Slot Nut also required

FATH® T-Slotted Rail Accessories

Casters - Continued

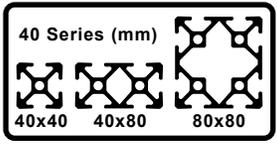
Caster Installation	
Swivel Caster	
Fixed Caster	
Leveling Caster with bolt hole thread	
Leveling Caster with mounting plate	

FATH® T-Slotted Rail Accessories

Hinges

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



40 Series Hinges							
Fits		Slot Size 					
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

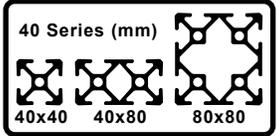
*T-Slot Nut also required

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 						
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		161061			PDF
151155		\$58.00	Compact Sliding Door Latch					
162971		\$33.00	Sliding Door Guide	Fasteners included	n/a	Die-cast aluminum/nylon	PDF	
151156		\$37.00	Emergency Opener	n/a	161060	Fiberglass reinforced plastic	PDF	

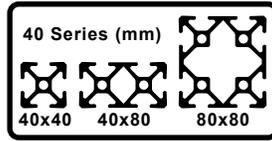
*T-Slot Nut also required

FATH® T-Slotted Rail Accessories

Panel and Door Elements - Continued

40 Series Panel and Door Elements - Continued

Fits  Slot Size 8

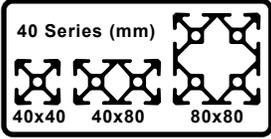


Part Number	Part Image	Price	Description	Recommended Screw Fastener (ADC Part Number)		Pack Quantity	Material	Drawing Link
				Core Hole Attachment 1	*T-Slot Attachment 2			
151157		\$7.25	Ball Catch	n/a	161063	1	Fiberglass reinforced plastic	PDF
151158		\$14.50	Double Ball Catch		161076		Brass	PDF
151159		\$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		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
162978		\$3.00	Panel Uni-Block	n/a	10	Nylon	PDF	
162979		\$3.00					PDF	

*T-Slot Nut also required

FATH® T-Slotted Rail Accessories

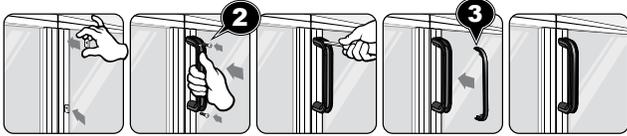
Panel and Door Elements - Continued

40 Series Panel and Door Elements - Continued								
		Fits  Slot Size 8						
Part Number	Part Image	Price	Description	Recommended Screw Fastener (ADC Part Number)		Pack Quantity	Material	Drawing Link
				Core Hole Attachment 1	*T-Slot Attachment 2			
151160		\$56.00	Sealing Strip			2	PVC/TPE	PDF
151163		\$25.00	Cover Profile		n/a	1	Nitrile rubber	PDF
151165		\$87.00		25		Polypropylene	PDF	
151164		\$110.00	Cover And Reduction Profile					PDF

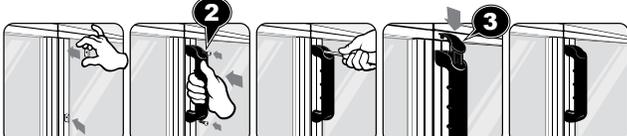
*T-Slot Nut also required

Panel and Door Elements Installation

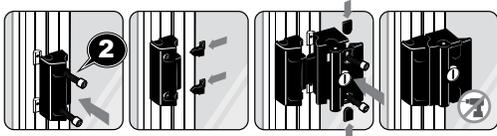
Bridge Handle and Cover Cap



Comfort Handle and Cover Cap



Slam Latch



Sliding Door Latch

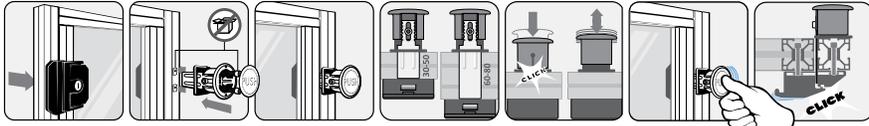


FATH[®] T-Slotted Rail Accessories

Panel and Door Elements - Continued

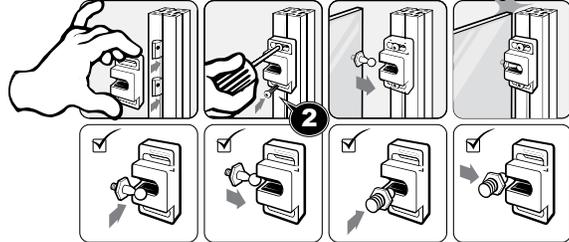
Panel and Door Elements Installation - Continued

Emergency Opener



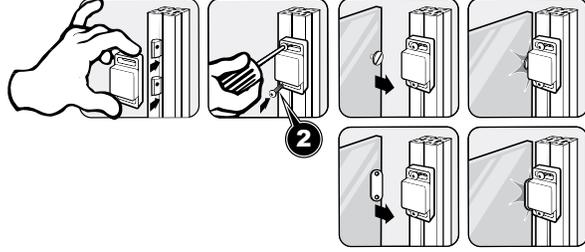
The Emergency Opener section contains seven diagrams. The first three show the opener being inserted into a door's edge. The next two show the opener being pushed into the door's internal track, with a 'CLICK' label and an arrow indicating the direction. The final diagram shows a hand pulling the handle, with a 'CLICK' label and an arrow indicating the handle's movement.

Ball Catch



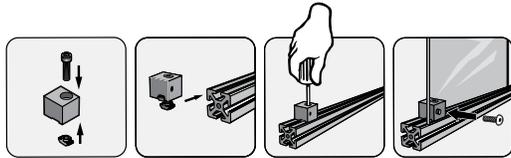
The Ball Catch section contains eight diagrams. The first shows a hand inserting a ball catch into a rail. The second shows the ball catch being pushed into the rail's internal track, with a circled '2' indicating the second step. The remaining six diagrams show the ball catch being fully seated and secured with a screw.

Magnetic Catch



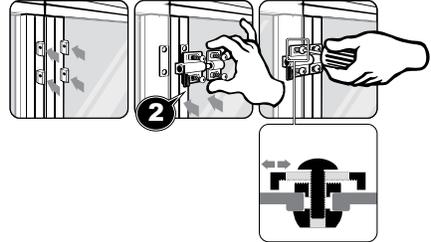
The Magnetic Catch section contains seven diagrams. The first shows a hand inserting a magnetic catch into a rail. The second shows the catch being pushed into the rail's internal track, with a circled '2' indicating the second step. The remaining five diagrams show the catch being fully seated and secured with a screw.

Panel Mount Block



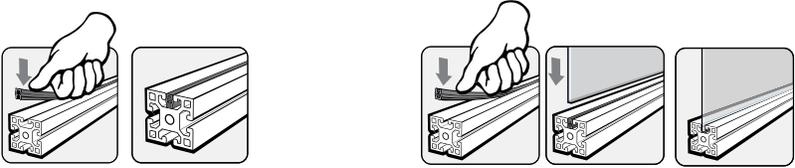
The Panel Mount Block section contains four diagrams. The first shows a block being inserted into a rail. The second shows the block being pushed into the rail's internal track. The third and fourth diagrams show the block being fully seated and secured with a screw.

Door Latch



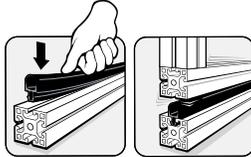
The Door Latch section contains four diagrams. The first shows a latch being inserted into a door's edge. The second shows the latch being pushed into the door's internal track, with a circled '2' indicating the second step. The third diagram shows the latch being fully seated. The fourth diagram is a cross-sectional view of the latch mechanism.

Cover and Reduction Profile



The Cover and Reduction Profile section contains five diagrams. The first shows a hand sliding a cover profile onto a rail. The second shows the cover profile being fully seated. The third and fourth diagrams show a hand sliding a reduction profile onto a rail. The fifth diagram shows the reduction profile being fully seated.

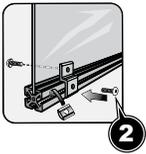
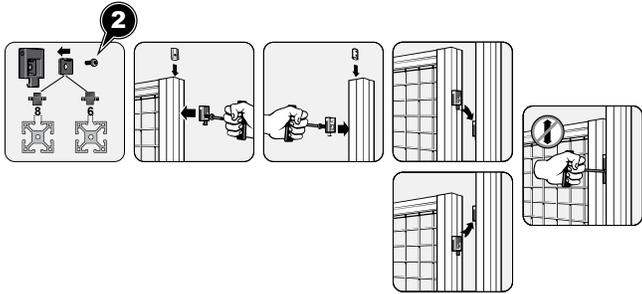
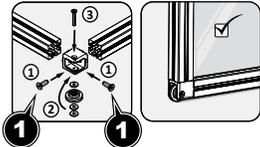
Sealing Profile



The Sealing Profile section contains two diagrams. The first shows a hand sliding a sealing profile onto a rail. The second shows the sealing profile being fully seated.

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

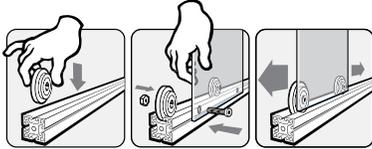
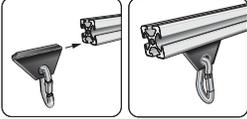
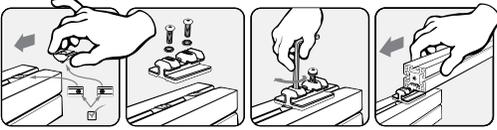
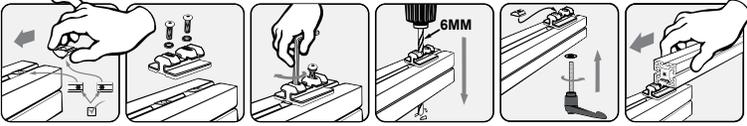
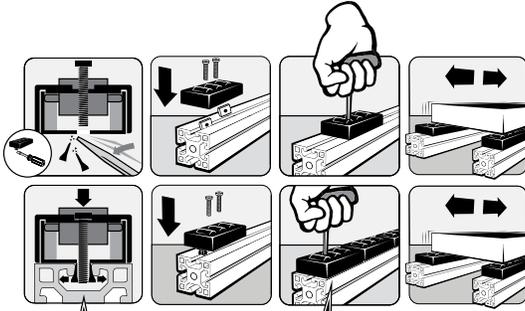
Slides and Rollers



40 Series Slides and Rollers								
		Fits Slot Size 8						
Part Number	Part Image	Price	Description	Fits	Pack Quantity	Recommended Screw Fastener T-Slot Attachment	Material	Drawing Link
151168		\$18.00	Slider	n/a	1	Fasteners included	Rubber/plastic/steel	PDF
151169		\$36.00	Slider With Clamp Lever					PDF
148974		\$9.50	Roller					PDF
151166		\$4.50	Slider	n/a		Glass-filled nylon	PDF	
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

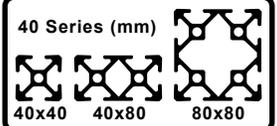
Slides and Rollers - Continued

Slides and Rollers Installation	
Roller	 <p>Bolt and nut not included and not available from AutomationDirect</p>
Slider and Snap Hook	
Slider	
Slider with Clamp Lever	
Roller Element	 <p>This mount is used when several are used end-to-end.</p> <p>The end units are mounted with T-nuts to keep all secured.</p>

FATH® T-Slotted Rail Accessories

Monitor Mounts

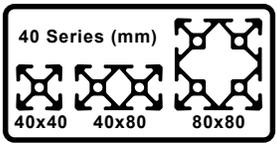


40 Series Monitor Mounts							
<ul style="list-style-type: none"> Fits monitors with VESA mounting standard Durable steel construction Mounting hardware included for several mounting locations 		Fits  Slot Size 8					
Part Number	Part Image	Price	Description	Load Rating kg [lb]	Pack Quantity	Installation 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

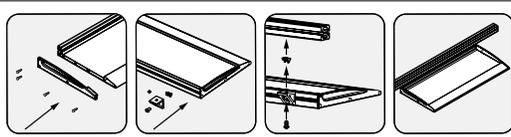
Workstation Components



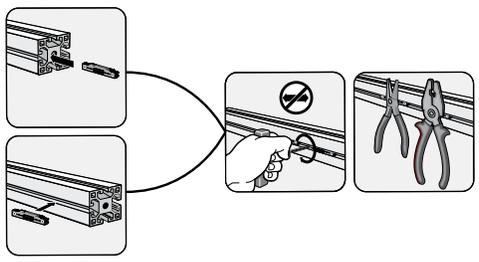
40 Series Workstation Components							
		Fits  Slot Size 8					
Part Number	Part Image	Price	Description	Load Rating kg [lb]	Pack Quantity	Material	Drawing Link
162902		\$185.00	Keyboard Holder (requires mounting solution, designer's choice)	n/a	1	Aluminum/nylon	PDF
162906		\$8.00	Magnetic Holder			Nylon/steel	PDF
162909		\$5.25	Top Angle Clamp			Nylon/steel	PDF
162964		\$9.00	Grab Tray			Nylon	PDF
162965		\$2.00	Label Clip			PVC	PDF

Workstation Components Installation

Keyboard Holder (mounting example)



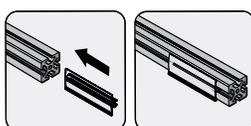
Magnetic Holder



Grab Tray



Label Clip



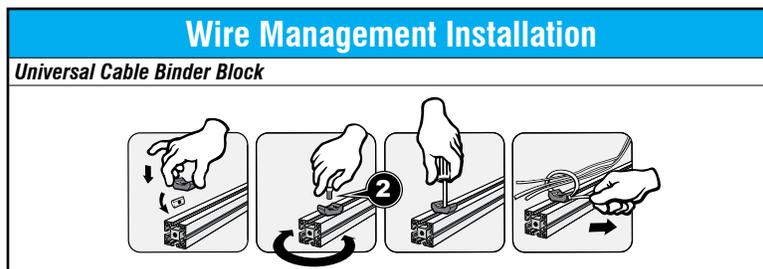
FATH® T-Slotted Rail Accessories

Wire Management



40 Series Wire Management							
		Fits Slot Size 8					
Part Number	Part Image	Price	Description	Pack Quantity	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Material	Drawing Link
151161		\$89.00	Conduit Cover 2000mm long	2	n/a	Polypropylene	PDF
151162		\$89.00					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
151178		\$4.00	Grounding Terminal		Steel/brass		PDF
162982		\$7.50	Universal Cable Binder Block	10	161058	Nylon	PDF

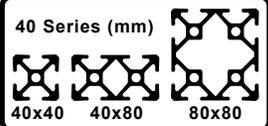
*T-Slot Nut also required



FATH® T-Slotted Rail Accessories

Miscellaneous Accessories

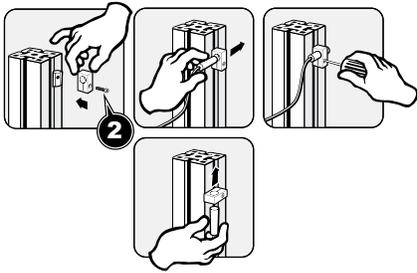
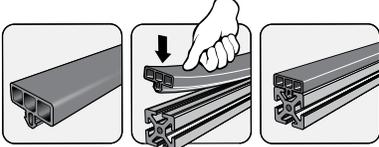
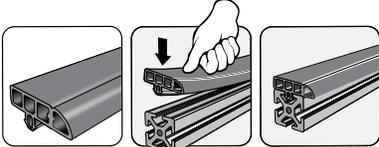
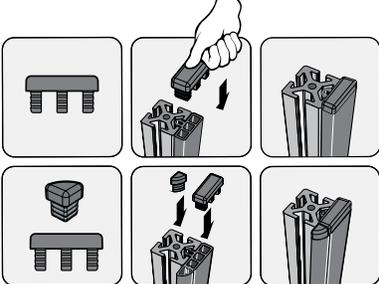


40 Series Miscellaneous Accessories									
Fits 									
Part Number	Part Image	Price	Description	Requires	Fits Profile	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Pack Quantity	Material	Drawing Link
151234		\$16.50	End Cap	n/a	40 x 40mm	n/a	10	Glass-filled nylon	PDF
151235		\$20.50			40 x 80mm				PDF
151236		\$32.00			80 x 80mm				PDF
151091		\$6.00	Stop Bumper	n/a	All 40 Series			Rubber/zinc-plated steel	PDF
151170		\$9.00							PDF
162973		\$3.25	Sensor Mounting Block for 8mm proximity sensor	n/a	All 40 Series	BHCS M4-0.7 x 25mm (not sold by ADC)	1	Nylon	PDF
162974		\$3.25	Sensor Mounting Block for 12mm proximity sensor						PDF
162929		\$240.00	Side Protection Profile						PDF
162930		\$270.00	Corner Protection Profile						PDF
162931		\$28.00	Cover Cap for Side	162929 or 162930	n/a		5	Thermoplastic rubber	PDF
162932		\$20.00	Cover Cap for Corner	162930					10

*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	