I-800-633-0405 For the latest prices, ple

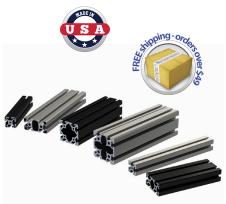
### **10 Series Fractional T-Slotted Aluminum Rail**

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

- Cut to length in 0.001 inch increments
- Minimum cut length: 6"
- Maximum cut length: 90"
- Cut accuracy: +/- 0.006"
- Corrosion and UV resistant



P	roperties			
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]			



			1	0 Series (inch	1)			
	Slot Size	Core Hole Ø 0.2		Series (inch)	R R	<b>R</b> Drop Lo	improves of strength an	D Lock feature connection ad vibration
Part Number	Part Image	Price per inch	Profile Size	Weight Class	Weight Ibs/ft [kg/m]	Moment of Inertia Lx	Moment of Inertia Ly	Drawing Link
<u>1010C</u>		\$0.28	1 x 1in	(	0.529 [0.787]	0.045 in <sup>4</sup>	0.045 in <sup>4</sup> [1.872 cm <sup>4</sup> ]	PDF
<u>1010B</u>	and the second s	\$0.40			0.523 [0.707]	[1.872 cm <sup>4</sup> ]		PDF
<u>1020C</u>		\$0.47	4.5	Olevaluat		0.084 in <sup>4</sup>	0.308 in <sup>4</sup> [12.813 cm <sup>4</sup> ]	PDF
<u>1020B</u>		\$0.66	1 x 2in	Standard	0.952 [1.417]	[3.494 cm <sup>4</sup> ]		PDF
<u>2020C</u>		\$0.70	00in	2 x 2in	1.482 [2.205]	0.543 in <sup>4</sup> [22.589 cm <sup>4</sup> ]	0.543 in <sup>4</sup> [22.589 cm⁴]	PDF
<u>2020B</u>	A RE	\$0.99	2 X Zin					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. 1-800-633-0405



#### **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

4

#### Supported Loads



5 WL<sup>4</sup> 84 El

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]				

#### CONCENTRATED LOAD AT CENTER (simply supported)

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

MAX DEFLECTION =

UNIFORMLY DISTRIBUTED LOAD (simply supported)

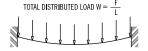
TOTAL DISTRIBUTED LOAD W = 
$$\frac{F}{L}$$

CONCENTRATED LOAD AT CENTER (between fixed supports)

F

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

UNIFORMLY DISTRIBUTED LOAD (between fixed supports)



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

#### Cantilever Loads

CONCENTRATED LOAD AT CENTER (simply supported)

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

UNIFORMLY DISTRIBUTED LOAD (simply supported)

TOTAL DISTRIBUTED LOAD W = 
$$\frac{r}{L}$$
  
MAX DEFLECTION =  $\frac{WL^4}{8 \text{ El}}$ 

## **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

• Material: zinc				
	T-8	Slot Nuts Select	ion	
Part Image	Nut Type	Installation	Holds Position Without Screw	ESD Connection
00	Double Economy T-Nut			No
0	Economy T-Nut			
	Hammer Nut		No	Yes
a	Slide-In Nut			
TTOP .	Roll-In Nut with Leaf Spring		Vez	No
and the second	Roll-In Nut with Spring Loaded Ball		Yes	



10 Series T-Slot Nuts										
	Fits	Slot Size	10 Series (inch) 1x1 $1x2$	2×2						
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link				
<u>161113</u>	C. C.	\$13.00	Roll-In Nut	8-32 UNF		PDF				
<u>161124</u>		\$9.50	Hammer Nut	0-32 UNF	- 10	PDF				
<u>161112</u>		\$13.00	Roll-In Nut	10-32 UNF		PDF				
<u>151038</u>		\$11.00	Hammer Nut	10-32 UNF		PDF				
<u>148804</u>	00	\$4.00	Double Economy T-Nut		4	PDF				
<u>151037</u>	0	\$5.50	Economy T-Nut	1/4-20 UNC		PDF				
<u>151039</u>	TEM	\$15.00	Roll-In Nut		10	PDF				

www.automationdirect.com

#### Fasteners

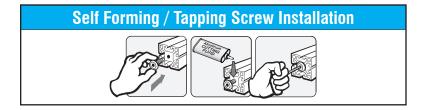
- Choose from 4 Head types in numerous lengths
- Hex socket head
- Select desired T-Slot nut style with corresponding thread size.
- Material: Black zinc plated or bright zinc plated steel, prevents corrosion better than typical black oxide coatings



			10 Serie	s Fasteners				
	Fits	Slot Size	10 Series	10 Series (inch) 1x1 $1x2$ $2x2$				
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link	
<u>162994</u>	(Constant)	\$8.00	8-32 UNF x 3/8in	Button head socket cap screw			PDF	
<u>161073</u>	Oran	\$7.75	8-32 UNF x 1/2in	Flat head socket cap screw			PDF	
<u>162993</u>	Com	\$7.50	10-32 UNF x 3/8in	Button head socket cap screw			PDF	
<u>162995</u>		\$7.75	- 10-32 UNF x 1/2in	Socket head cap screw		10	PDF	
<u>161046</u>	(hange)	\$4.75	10-32 UNF X 1/211	Button head socket cap screw	Flat black		PDF	
<u>161047</u>		\$5.00	10-32 UNF x 5/8in				PDF	
<u>161048</u>		\$5.75	10-32 UNF x 3/4in				PDF	
<u>161074</u>	Ob	\$6.25		Flat head socket cap screw			PDF	
<u>151040</u>	0,	\$4.25	1/4-20 UNC x 1/2in	Button head socket cap screw			PDF	
<u>151041</u>	Ø	\$5.25		Flanged button head socket cap screw	Gloss black		PDF	
<u>161049</u>	O <sub>leo</sub>	\$4.75	1/4-20 UNC x 9/16in	Button head socket cap screw			PDF	
<u>161075</u>	Com	\$6.25		Flat head socket cap screw	Flat black		PDF	
<u>161050</u>		\$4.75	1/4-20 UNC x 5/8in	Button head socket cap screw			PDF	
<u>161087</u>		\$4.00		Socket head cap screw			PDF	

	10 Series Fasteners											
Fits Slot Size $10$ Series (inch) $11x_1 + 1x_2 + 2x_2$												
Part Number	Part Image	Price	Thread X Length         Head Type         Color         Pack Quantity         Drawing Link									
<u>161051</u>		\$4.75	1/4-20 UNC x 3/4in	Dotters hand an last one control		10	<u>PDF</u>					
<u>161052</u>		\$5.25	1/4-20 UNC x 1in	Button head socket cap screw	Flat black	10	PDF					

	10 Series Self Forming / Tapping Screw									
	Fits	10 Series	16767576 41		Works with Aluminum with hole diameter 0.197" - 0.216" [5.0 - 5.5 mm]					
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link			
<u>161103</u>		\$8.75	6 x 16mm	Self-Tapping Screw Button head socket cap T-25 Torx	Bright zinc	10	PDF			



1339

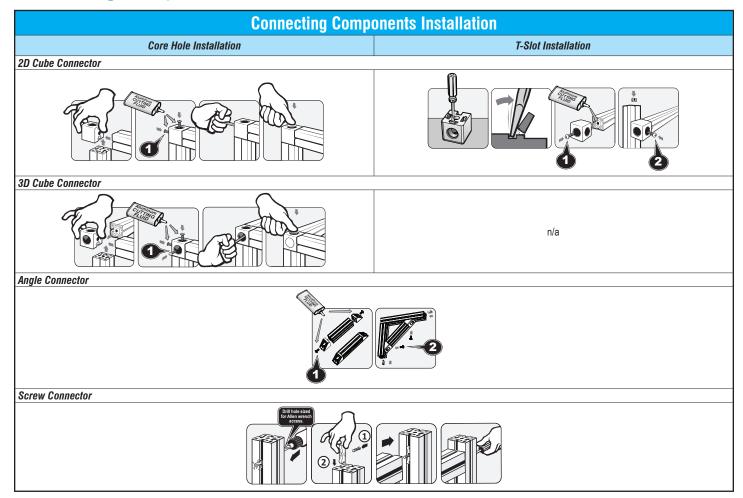
# 1-800-633-0405 For the latest **FATH**<sup>®</sup> **T-Slotted Rail Accessories**

#### **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

			10 Seri	es Conn	ecting Comp	onents			
	Fits	Slot Size		10 Series	(inch)				
Part Number	Part Image	Price	Description	Fits Profile	Material	Recommende (ADC P Core Hole Attachment	ed Screw Fastener art Number) *T-Slot Attachment 2	Pack Quantity	Drawing Link
<u>148953</u>	00	\$8.75	2d Cube				Socket Head Cap Screw		PDF
<u>166230</u>		\$10.00	Connector	Connector			1/4-20 x 7/16" **	1	PDF
<u>148956</u>	00	\$10.50	3d Cube				n/a		PDF
<u>166231</u>		\$12.00	Connector		Die-cast aluminum	<u>161103</u>			PDF
<u>151042</u>	1.01	\$4.50		-					PDF
<u>166232</u>	101	\$5.00	Angle				<u>151040</u>		PDF
<u>151043</u>	1.1.1	\$8.00	Connector	1 x 2in			<u>131040</u>		PDF
<u>166233</u>	10101	\$8.50		I X ZIN					PDF
<u>163007</u>	P	\$10.50	Screw Connector	1 x 1in	Zinc plated steel	Designer's choice	n/a	10	PDF
*T-Slot Nut also requ ** Recommended fa	ired. stener not available fro	om Automat	ionDirect.com						

### **Connecting Components - Continued**



### **Joining Plates**

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



		1	0 Series Joinin	ig Plates		
	Fits	Slot Size	10 Series (inch) 1x1 1x2			
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Drawing Link
<u>151044</u>	• •	\$2.50				PDF
<u>166234</u>	00	\$3.00				PDF
<u>151045</u>		\$3.75				PDF
<u>166235</u>		\$4.00			1	PDF
<u>151046</u>		\$4.50	Straight Flat Plate			PDF
<u>166236</u>		\$5.00				PDF
<u>151047</u>	•••	\$4.25				PDF
<u>166237</u>		\$5.00		<u>151040</u> or <u>151041</u>		PDF
<u>151048</u>		\$6.50				PDF
<u>166238</u>		\$7.00	_			PDF
<u>151049</u>		\$5.50	Rectangular Flat Plate			PDF
<u>166239</u>		\$6.00				PDF
<u>151050</u>		\$6.25				PDF
<u>166240</u>		\$7.00	Flat Plate			PDF
*T-Slot Nut also req	uired					

# 1-800-633-0405 FATH<sup>®</sup> T-Slotted Rail Accessories

### **Joining Plates - Continued**

		10 Se	ries Joining Pl	ates - Cont'd		
	Fits	Slot Size	10 Series (inch)			
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Drawing Link
<u>151051</u>	••••	\$6.50				PDF
<u>166241</u>	••••	\$7.00	- Flat Plate		1	PDF
<u>151052</u>	••••	\$6.50				PDF
<u>166242</u>		\$7.00				PDF
<u>151053</u>	••••	\$7.25	-			PDF
<u>166243</u>		\$8.00	T-Shaped Flat Plate	<u>151040</u> or <u>151041</u>		PDF
<u>151054</u>		\$10.50				PDF
<u>166244</u>		\$12.00				PDF
<u>151055</u>		\$9.50				PDF
<u>166245</u>		\$11.00	Cross Flat Plate			PDF
<u>151056</u>		\$8.00	L-Shaped Flat Plate			PDF
<u>166246</u>	Bee	\$9.00				PDF
<u>151057</u>		\$10.50	T Shaped Fist Dista			PDF
166247		\$12.00	T-Shaped Flat Plate			PDF

# 1-800-633-0405 **FATH® T-Slotted Rail Accessories**

#### **Brackets**

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

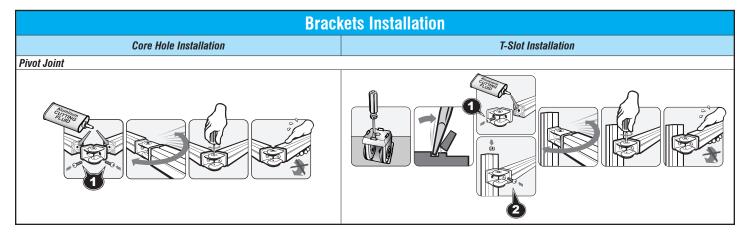
			10 <u></u> S	eries Brackets						
	Fits	Slot Size	10 Ser	$ \begin{array}{c} \text{ies (inch)} \\ 1x2 \\ 2x2 \end{array} $						
Part Number	Part Image	Price	Description	Recommended (ADC Part Core Hole Attachment		Pack Quantity	Material	Drawing Link		
<u>148915</u>	TR	\$1.50			400004		Die-cast	PDF		
<u>166249</u>	1	\$1.50	Angle Bracket  Angle Corner Bracket  n/a		aluminum	PDF				
<u>151059</u>		\$4.00		Angle Bracket	Angle Bracket		162003		Die-cast zinc	PDF
<u>166250</u>		\$4.00				-		PDF		
<u>151058</u>		\$2.50					PDF			
<u>166248</u>		\$3.00		Inside Comer Bracket		n/a		1		<u>PDF</u>
<u>151061</u>		\$4.75	Tall Inside Corner					PDF		
<u>166252</u>		\$5.00	Bracket				Anodized	PDF		
<u>151060</u>		\$4.75	Wide Inside Corner		<u>151040</u>		aluminum	PDF		
<u>166251</u>		\$5.00	Bracket					PDF		
<u>151062</u>		\$6.75	Inside Comes Desclust					<u>PDF</u>		
<u>166253</u>		\$8.00	<ul> <li>Inside Corner Bracket</li> </ul>					PDF		

## 1-800-633-0405 **FATH**<sup>®</sup> **T-Slotted Rail Accessories**

#### **Brackets - Continued**

10 Series Brackets - Cont'd									
	Fits	Slot Size	10 Serie	es (inch) 1x2 $2x2$					
				Recommended (ADC Part	Screw Fastener t Number)				
Part Number	Part Image	Price	Description	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	Material	Drawing Link	
<u>151063</u>	A SU	\$3.00	Gusseted Inside					PDF	
<u>166254</u>		\$3.00	Corner Bracket					PDF	
<u>151064</u>	00	\$5.25	Tall Gusseted Inside	n/a			Anodized aluminum	PDF	
<u>166255</u>	00	\$6.00	Corner Bracket		<u>151040</u>			PDF	
<u>151065</u>	S.	\$5.75	Wide Gusseted Inside					PDF	
<u>166256</u>	•	\$6.00	Corner Bracket					PDF	
<u>151066</u>		\$10.50	Gusseted Inside			1		PDF	
<u>166257</u>		\$12.00	Corner Bracket					PDF	
<u>151067</u>		\$30.50						PDF	
<u>166258</u>		\$36.00	— Pivot Joint					PDF	
<u>148932</u>		\$39.50	Pivot Joint With	<u>161103</u>	<u>161049</u>		Die-cast zinc	PDF	
<u>166259</u>		\$47.00	Locking Handle					PDF	

#### **Brackets - Continued**

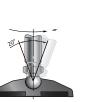


For the latest prices, please check AutomationDirect.com.

# **FATH T-Slotted Rail Accessories**

#### Bases

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





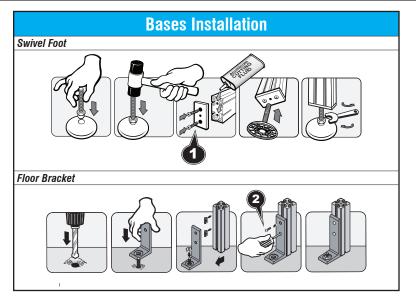
				10	) Series B	ases					
	Fits	Slot S			ieries (inch)						
						Load	Recommended (ADC Part			Material	
Part Number	Part Image	Price	Diameter	Description	Fits	Rating kg [lb]	Core Hole Attachment	T-Slot Attachment <b>2</b>	Pack Quantity		Drawing Link
<u>118356</u>	0.45	\$16.00		1/4-20 UNC Transport/Base Plate	1 x 2in	n/a	<u>161103</u> (2) included	161103 (2) included with kit		Die-cast	PDF
<u>146399</u>	@W®	\$16.00	n/a	3/8-16 UNC Transport/Base Plate	1 X 2111	11/d				zinc	<u>PDF</u>
<u>151074</u>	at the second se	\$7.25		1/4-20 UNC x 1-1/2in Swivel Foot Threaded Rod with 15 mm ball	Transport/ Base Plate <u>118356</u>	210 [463]*	_			Zinc plated steel	PDF
<u>151075</u>		\$4.50		3/8-16 UNC x 1-1/2in Swivel Foot Threaded Rod with 15 mm ball	Transport/ Base Plate <u>146399</u>	470 [1036]*				Zinc plated steel	PDF
<u>151068</u>	6	\$4.00	1.57 in			900 [1984]				Nylon	PDF
<u>151071</u>		\$9.50	[39.0 mm]				n/a	n/a	1	Die-cast zinc	PDF
<u>151072</u>	•	\$17.00				3000 [6614]					PDF
<u>151073</u>	300	\$17.00	3.11 in	Swivel Base With Anti-	Any 15mm ball Threaded						<u>PDF</u>
<u>151069</u>		\$6.00	[79.0 mm]	Slip Plate	Rod	900 [1984]					PDF
<u>151070</u>		\$6.00				300 [1304]				Nylon	PDF
<u>151255</u>	•	\$10.00	. 3.90 in			900 [1984]				INVION	PDF
<u>151256</u>		\$10.00	[99.0 mm]			300 [1904]					PDF
Load rating of Example: Threaded rod I	Based on installation with Transport / Base Plate oad rating of a swivel foot assembly is based on the part with the lowest load rating, typically the threaded rod. xample: hreaded rod load rating = 210kg [463lb] wivel base load rating = 3000kg [6614lb]										

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

# **FATH T-Slotted Rail Accessories**

#### **Bases - Continued**

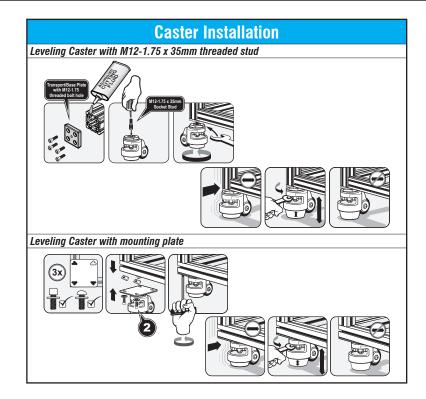
				10 Serie	es Bases	- continı	led				
	Fits	Slot S			ieries (inch)						
Part Number	Part Image	Price	Diameter	Description	Fits	Load Rating kg [lb]	Recommended (ADC Part Core Hole Attachment		Pack Quantity	Material	Drawing Link
<u>151257</u>	•	\$24.00	3.90 in	Swivel Base With Anti-	Any 15mm	3500 [7716]				Die-cast	<u>PDF</u>
<u>151258</u>	6	\$24.00	[99.0 mm]	Slip Plate	ball Threaded Rod	5500 [7710]				zinc	<u>PDF</u>
<u>162933</u>	••••	\$12.50	See		Any 15mm	1000 [2204]	n/a	n/a	1	Nylon	<u>PDF</u>
<u>162934</u>	•	\$27.00	Drawing Link	Extended Swivel Base	ball Threaded Rod	3000 [6613]				Die-cast zinc	PDF
<u>162955</u>	162955       \$10.00       n/a       Floor Bracket       1 x 1in, 1 x 2in, 2 x 2in       n/a       151040       Anodized aluminum       PDF										<u>PDF</u>
Load rating of Example: Threaded rod Swivel base lo Swivel foot as	Based on installation with Transport / Base Plate oad rating of a swivel foot assembly is based on the part with the lowest load rating, typically the threaded rod. xample: hreaded rod load rating = 210kg [463lb] wivel base load rating = 3000kg [6614lb] wivel foot assembly load rating = 210kg [463lb] 'T-Slot nut also required										



#### Casters

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

				10 Serie	s Casters					
	Fits	Slot Size	9	10 Series (ir 1x1 $1x$	XAA					
Part Number	Part Image	Price	Description	Load Rating kg [lb]	Requires	Recommended Screw Fastener *T-Slot Attachment (2) (ADC Part Number)	Pack Quantity	Material	Drawing Link	
<u>163010</u>		\$40.00	Leveling Caster with M12-1.75 x 35mm	250 [551]	Transport / Base	n/a			PDF	
<u>163011</u>		\$52.00	threaded stud (included)	500 [1102]	Plate with M12-1.75 threaded hole		1	Die-cast aluminum/ steel/nylon/ rubber	PDF	
<u>163012</u>		\$41.00	Leveling Caster With	250 [551]	,	BHCS 1/4-20x7/16"			PDF	
<u>163013</u>		\$56.00	Mounting Plate	500 [1102]	n/a	(not sold by ADC)			PDF	
*T-Slot Nut with	T-Slot Nut with 1/4 washer also required.									



### Hinges

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



	10 Series Hinges										
	Fits Slot Size $10$ Series (inch) $11x^2$ $2x^2$										
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Material	Drawing Link				
<u>151076</u>	10 00 00 00 00 00 00 00 00 00 00 00 00 0	\$6.00	Left-Hand Detachable Combination Hinge				PDF				
<u>151077</u>		\$6.00	Right-Hand Detachable Combination Hinge			Fiberglass reinforced plastic	PDF				
<u>151078</u>		\$6.00	Non-Detachable Combination Hinge		1		PDF				
<u>151079</u>	-	\$11.50	Non-Detachable Combination Hinge With Locking Lever	<u>161074</u>			PDF				
<u>151080</u>	a a a	\$17.00	Left-Hand Detachable Combination Hinge				PDF				
<u>151081</u>	313	\$17.00	Right-Hand Detachable Combination Hinge			Die-cast aluminum	PDF				
<u>151082</u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$17.00	Non-Detachable Combination Hinge				PDF				
*T-Slot Nut also requ	uired		1								

#### Panel and Door Elements

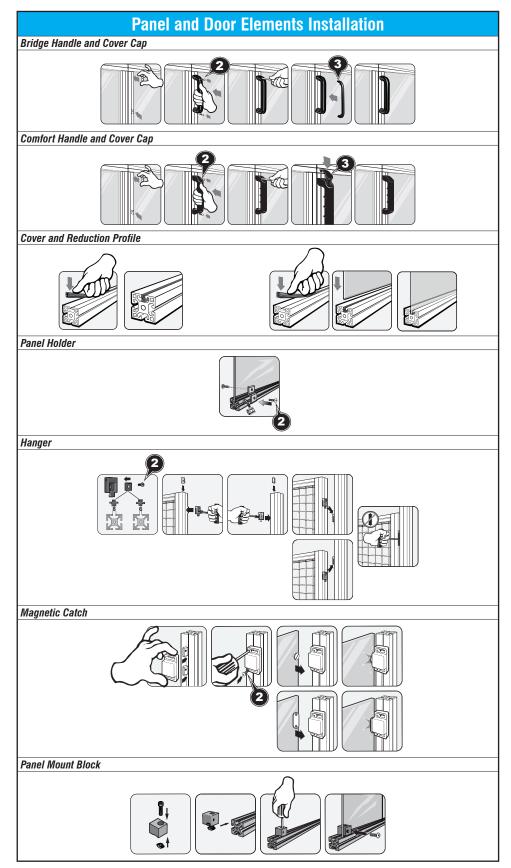
- Recommended ADC Fastener based on part feature and slot depth
- Material: varies by part



	10 Series Panel and Door Elements										
	Fits	Slot Size	10 Series (i 111 1)	XAA							
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (2) (ADC Part Number)	Pack Quantity	Material	Drawing Link				
<u>151083</u>	<b>с</b>	\$4.25	Bridge Handle	<u>162995</u>			PDF				
<u>151084</u>	$\searrow$	\$6.50	Cover Cap 3	n/a			PDF				
<u>151085</u>		\$4.50	Comfort Handle	<u>161087</u>		Fiberglass reinforced plastic	PDF				
<u>151086</u>	~~	\$4.00	Cover Cap 3	n/a			PDF				
<u>151149</u>		\$6.50	Comfort Handle	<u>151050</u>			PDF				
<u>162910</u>	3	\$3.00	2	151010	1	Anodized aluminum	PDF				
<u>162915</u>	• •	\$5.25	- Panel Holder	<u>151040</u>			PDF				
<u>162920</u>	1	\$5.25	Deed Maust Diach	Fasteners included		Lacquered aluminum	PDF				
<u>162921</u>		\$5.25	Panel Mount Block	Fasteners included		Powder-coated aluminum black	PDF				
<u>162963</u>		\$8.50	Magnetic Catch	<u>161047</u>		Nylon/steel	PDF				
<u>162977</u>	hh	\$8.50	Hanger	<u>151040</u>		Die-cast zinc	PDF				
<u>151087</u>		\$115.00	Cover And Reduction Profile, 2000mm long per piece	n/a	25	Polypropylene	<u>PDF</u>				
*T-Slot Nut also r	equired	I			1	<u> </u>					

# **FATH T-Slotted Rail Accessories**

#### Panel and Door Elements - Continued

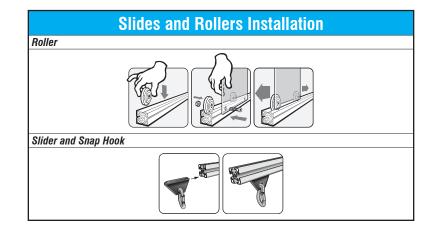


## 1-800-633-0405 **FATH**<sup>®</sup> **T-Slotted Rail Accessories**

#### **Slides and Rollers**



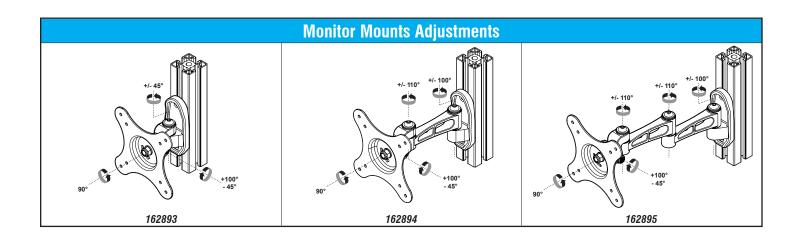
			10 Series Slide	es and Rollers								
	Fits Slot Size $10$ Series (inch) $11 \times 1 \times 2 \times$											
Part Number	Part Image	Price	Description	Fits	Pack Quantity	Material	Drawing Link					
<u>151090</u>		\$7.25	Roller All 10 Series			Glass-filled nylon	PDF					
<u>151088</u>		\$4.50	Slider		1	Glass-filled nylon	PDF					
<u>151089</u>	Card	\$4.50	Snap Hook	Slider <u>151088</u>		Zinc plated steel	PDF					



### **Monitor Mounts**



	10 Series Monitor Mounts										
<ul> <li>Fits monitors with VESA mounting standard</li> <li>Durable steel construction</li> <li>Powder coat finish</li> <li>Mounting hardware included for several mounting locations</li> </ul>		Fits Slot Size $10$ Series (inch) $11x^2$ $1x^2$ $2x^2$		• VEA Mounting Standard g 100 X 100mm g 7 X Jiann g 4 4 4 0.7 Threaded Holes • •							
Part Number	Part Image	Price	Description	Load Rating kg [lb]	Pack Quantity	Installation Instructions Link	Drawing Link				
<u>162893</u>		\$42.00				PDF	PDF				
<u>162894</u>	<b>F-X</b>	\$50.00	Swivel Monitor Mount	15 [33.1]	1	PDF	PDF				
<u>162895</u>		\$58.00				PDF	<u>PDF</u>				

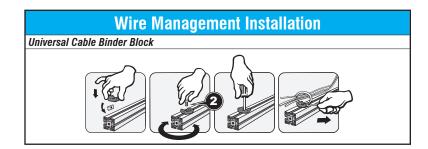


# 1-800-633-0405 FATH<sup>®</sup> T-Slotted Rail Accessories

### Wire Management



	10 Series Wire Management										
	Fits Slot Size fits = 10 Series (inch) $fit = 10$ Series (inch) $fit$										
Part Number	Number     Part Image     Price     Description     Pack Quantity     Recommended Screw Fastener *T-Slot Attachment     Material     Drawing										
<u>151095</u>	1	\$44.00	Clip Cable Binder With Hammer	10	n/a	Nylon/rubber	PDF				
162982         \$7.50         Universal Cable Binder Block         10         10         10         PDF											
*T-Slot Nut also requir	T-Slot Nut also required										

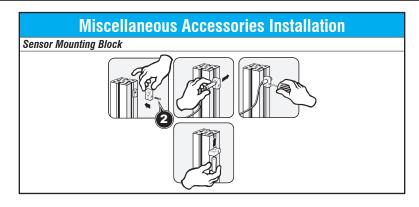


# **FATH T-Slotted Rail Accessories**

#### **Miscellaneous Accessories**



	10 Series Miscellaneous Accessories										
	Fits Slot Size										
Part Number	Part Image	Price	Description	Fits Profile	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Material	Drawing Link			
<u>151092</u>		\$10.00		1 x 1in				PDF			
<u>151093</u>		\$14.50	End Cap	1 x 2in	n/a	10	Glass-filled nylon	PDF			
<u>151094</u>		\$19.00		2 x 2in				PDF			
<u>162973</u>		\$3.25	Sensor Mounting Block for 8mm diameter proximity sensor		BHCS 8-32 x 3/4"			PDF			
<u>162974</u> *T-Slot Nut also		\$3.25	Sensor Mounting Block for 12mm diameter proximity sensor	All 10 Series	(not sold by ADC)	1	Nylon	PDF			



1-800-633-0405 **Aluminum T-Slotted Rail** frame

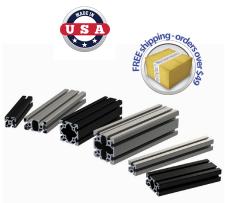
### **15 Series Fractional T-Slotted Aluminum Rail**

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

- Cut to length in 0.001 inch increments
- Minimum cut length: 6"
- Maximum cut length: 90"
- Cut accuracy: +/- 0.006"
- · Corrosion and UV resistant



P	roperties
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]



			1	5 Series (inch)	)			
	Slot Size	Core Hole Ø 0.2		Series (inch)	<b>T-Slot Drop Lock feature</b> improves connection strength and vibration resistance			
Part Number	Part Image	Price per inch	Profile Size	Weight Class	Weight Ibs/ft [kg/m]	Moment of Inertia Lx	Moment of Inertia Ly	Drawing Link
<u>1515C</u>		\$0.64		Standard	4 404 70 0001	0.261 in <sup>4</sup>	0.261 in <sup>4</sup>	PDF
<u>1515B</u>		\$0.91		Stanuaru	1.404 [2.089]	[10.816 cm⁴]	[10.816 cm⁴]	PDF
<u>1515CL</u>		\$0.52	1.5 x 1.5in		4 000 14 0071	0.186 in <sup>4</sup>	0.186 in <sup>4</sup>	PDF
<u>1515BL</u>	THE REAL	\$0.76		Light	1.093 [1.627]	[7.738 cm <sup>4</sup> ]	[7.738 cm <sup>4</sup> ]	PDF
<u>1515CUL</u>		\$0.48		Ultra-light	1.029 [1.531]	0.174 in <sup>4</sup> [7.238 cm <sup>4</sup> ]	0.174 in <sup>4</sup> [7.238 cm <sup>4</sup> ]	PDF

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

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





Core Hole

4 Places

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.

I-800-633-0405 For the latest prices, pier Sure frame<sup>™</sup> Aluminum T-Slotted Rail

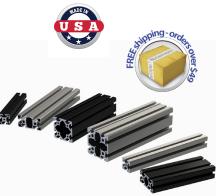
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- Minimum cut length: 6"
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- Cut accuracy: +/- 0.006"
- Corrosion and UV resistant



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



			15 Serie	es (inch) - Con	tinued			
	Slot Size	Core Hole Ø 0.2		Series (inch)	<b>Drop Lock T-Slot Drop Lock feature</b> <b>improves connection</b> <b>strength and vibration</b> <b>resistance</b>			
Part Number	Part Image	Price per inch	Profile Size	Weight Class	Weight Ibs/ft [kg/m]	Moment of Inertia Lx	Moment of Inertia Ly	Drawing Link
<u>1530C</u>		\$1.16		Standard	0.500 /0.550	0.572 in <sup>4</sup>	2.139 in <sup>4</sup> [88.982 cm <sup>4</sup> ]	<u>PDF</u>
<u>1530B</u>		\$1.53	1.5 x 3in -		2.526 [3.759]	[23.795 cm⁴]		PDF
<u>1530CL</u>		\$0.99		1.0 × 011		0.000 /0.4451	0.408 in <sup>4</sup>	1.431 in <sup>4</sup>
<u>1530BL</u>	54 A	\$1.32		Light	2.093 [3.115]	[16.973 cm <sup>4</sup> ]	[59.529 cm⁴]	PDF
<u>3030C</u>		\$1.86	2.2	Oleched	4 050 /0 0001	3.379 in <sup>4</sup>	3.379 in <sup>4</sup> [140.566 cm <sup>4</sup> ]	PDF
<u>3030B</u>	A REAL	\$2.30	3 x 3in	Standard	4.058 [6.039]	[140.566 cm <sup>4</sup> ]		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. 1-800-633-0405



#### **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

4

#### Supported Loads



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

MAX DEFLECTION =

UNIFORMLY DISTRIBUTED LOAD (simply supported)

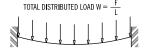
TOTAL DISTRIBUTED LOAD W = 
$$\frac{r}{L}$$

CONCENTRATED LOAD AT CENTER (between fixed supports)

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

5 WL<sup>4</sup> 84 El

UNIFORMLY DISTRIBUTED LOAD (between fixed supports)





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)



UNIFORMLY DISTRIBUTED LOAD (simply supported)

TOTAL DISTRIBUTED LOAD W = 
$$\frac{F}{L}$$
  
MAX DEFLECTION =  $\frac{WL^4}{8 EI}$ 

## **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

Material: zinc plated steel											
	T-Slot Nuts Selection										
Part Image	Nut Type	Installation	Holds Position Without Screw	ESD Connection							
00	Double Economy T-Nut			No							
0	Economy T-Nut										
	Hammer Nut	Tee	No	Yes							
a	Slide-In Nut										
ETO.	Roll-In Nut with Leaf Spring		Vac	No							
	Roll-In Nut with Spring Loaded Ball		Yes								



			15 Series T-Slo	ot Nuts		
	Fits	Slot Size	15 Series (inch) 1.5x1.5 1.5x3			
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link
<u>161115</u>	E	\$17.50	Roll-In Nut	- 8-32 UNF		PDF
<u>161125</u>		\$9.50	Hammer Nut		- 10	PDF
<u>161114</u>		\$17.50	Roll-In Nut			PDF
<u>162996</u>	12/2/	\$17.50	Koll-III Nut			PDF
<u>162903</u>	R	\$9.50	Slide-In Nut	10-32 UNF		PDF
<u>161126</u>	NO.	\$8.25	Hammer Nut			PDF

### **T-Slot Nuts - Continued**

15 Series T-Slot Nuts - Continued										
	Fits Slot Size									
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link				
<u>162904</u>		\$9.50	Slide-In Nut			PDF				
<u>151097</u>		\$9.50	Hammer Nut	1/4-20 UNC		PDF				
<u>162997</u>	and an	\$17.50	Roll-In Nut		. 10	PDF				
<u>161123</u>	0	\$5.50	Economy T-Nut	1/4-20 UNC		PDF				
<u>151098</u>		\$20.00	Roll-In Nut	1/4-20 UNC		PDF				
<u>151096</u>	6	\$6.50	Economy T-Nut			PDF				
<u>148805</u>	C C	\$5.50	Double Economy T-Nut		4	PDF				
<u>162905</u>	E	\$9.50	Slide-In Nut	5/16-18 UNC		PDF				
<u>151099</u>		\$20.00	Roll-In Nut			PDF				
<u>162998</u>	100	\$17.50	Roll-In Nut		10	PDF				
<u>161129</u>		\$8.00	Hammer Nut		U IV	PDF				
<u>161119</u>	10	\$16.75	Roll-In Nut	M4-0.7		PDF				
<u>162999</u>	and the	\$17.50	Non-iit Nut			PDF				

### **T-Slot Nuts - Continued**

	15 Series T-Slot Nuts - Continued									
	Fits	Slot Size	15 Series (inch)							
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link				
<u>161130</u>	no.	\$8.00	Hammer Nut			PDF				
<u>161120</u>	131	\$16.75	Roll-In Nut	M5-0.8		PDF				
<u>163000</u>	all a	\$17.50				PDF				
<u>151214</u>		\$9.00	Hammer Nut		10	PDF				
<u>162884</u>	R	\$9.75	Slide-In Nut	- M6-1.0		PDF				
<u>151215</u>	131	\$19.00	Roll-In Nut	WO-1.0		PDF				
<u>163001</u>	and the second s	\$17.50	Kon-in Nut			PDF				
<u>162885</u>	Ø	\$9.75	Slide-In Nut			PDF				
<u>151216</u>	200-	\$19.00	Roll-In Nut	M8-1.25		PDF				
<u>163002</u>		\$17.50				PDF				

#### Fasteners

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



			15 Serie	s Fasteners					
	Fits Slot Size								
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link		
<u>162994</u>	Ba	\$8.00	8-32 UNF x 3/8in	Button head socket cap screw			<u>PDF</u>		
<u>161073</u>	Com	\$7.75	8-32 UNF x 1/2in	Flat head socket cap screw	-		PDF		
<u>162993</u>	(han )	\$7.50	10-32 UNF x 3/8in	Button head socket cap screw			PDF		
<u>162995</u>		\$7.75		Socket head cap screw Button head socket cap screw			PDF		
<u>161046</u>	(hange)	\$4.75	10-32 UNF x 1/2in		Flat black		PDF		
<u>161047</u>		\$5.00	10-32 UNF x 5/8in				PDF		
<u>161048</u>	0	\$5.75	10-32 UNF x 3/4in				PDF		
<u>161074</u>	O.	\$6.25		Flat head socket cap screw		10	PDF		
<u>151040</u>	0,	\$4.25	1/4-20 UNC x 1/2in	Button head socket cap screw			PDF		
<u>151041</u>	Ø	\$5.25		Flanged button head socket cap screw	Gloss black		PDF		
<u>161049</u>	O <sub>bb</sub>	\$4.75	1/4-20 UNC x 9/16in	Button head socket cap screw			<u>PDF</u>		
<u>161075</u>	()	\$6.25		Flat head socket cap screw	Flat black		PDF		
<u>161050</u>		\$4.75	1/4-20 UNC x 5/8in	Button head socket cap screw	Flat black		PDF		
<u>161087</u>		\$4.00		Socket head cap screw			PDF		

			<b>15 Series Fast</b>	eners - Continued			15 Series Fasteners - Continued									
	Fits	Slot Size	15 Series ( 1.5x1.5 1.													
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link									
<u>161051</u>	(Composition of the second sec	\$4.75	1/4-20 UNC x 3/4in	Button head socket cap screw			PDF									
<u>161052</u>		\$5.25	1/4-20 UNC x 1in	Button nead socket cap screw	Flat black		<u>PDF</u>									
<u>151100</u>	0,	\$5.25	5/16-18 UNC x 5/8in	Button head socket cap screw			<u>PDF</u>									
<u>151101</u>	œ,	\$6.00	5/16-18 UNC x 11/16in	Flanged button head socket cap screw	Gloss black		<u>PDF</u>									
<u>161053</u>	Ø	\$6.00	5/16-18 UNC x 1/2in			10	PDF									
<u>161054</u>		\$6.50	5/16-18 UNC x 3/4in	Button head socket cap screw	Flat black		<u>PDF</u>									
<u>161055</u>		\$7.50	5/16-18 UNC x 1in				<u>PDF</u>									
<u>161088</u>	0	\$2.25	M4-0.7 x 8mm	Socket head cap screw			PDF									
<u>161089</u>	<b>B</b>	\$2.50	- M4-0.7 x 10mm	Socket head cap screw			PDF									
<u>161056</u>	2	\$1.00	W <del>T</del> -0.7 X TOTHIN	Button head socket cap screw			<u>PDF</u>									
<u>161076</u>	() Destination	\$1.50	M4-0.7 x 12mm	Flat head socket cap screw			<u>PDF</u>									
<u>161057</u>	Ø.	\$1.25	ME 0.9	Button head socket cap screw	Bright zinc		PDF									
<u>161090</u>		\$2.50	– M5-0.8 x 10mm	Socket head cap screw			PDF									
<u>161077</u>	Dominio	\$1.75	ME 0.0	Flat head socket cap screw			PDF									
<u>161091</u>	Ø.	\$2.75	– M5-0.8 x 12mm	Socket head cap screw			PDF									

			15 Series Fast	teners - Continued			
	Fits	Slot Size	XX	(inch)			
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link
<u>161058</u>	<u> </u>	\$1.75	M5-0.8 x 12mm	Button head socket cap screw			<u>PDF</u>
<u>161092</u>	Ð	\$2.75	M6-1.0 x 10mm	Socket head cap screw			<u>PDF</u>
<u>161078</u>	<u>O</u>	\$2.25		Flat head socket cap screw			PDF
<u>161059</u>	2	\$2.00	M6-1.0 x 12mm	Button head socket cap screw			<u>PDF</u>
<u>161093</u>		\$2.75		Socket head cap screw		10	<u>PDF</u>
<u>161079</u>	Dim	\$2.50		Flat head socket cap screw	- Bright zinc		PDF
<u>161060</u>	(Englishing)	\$2.25	M6-1.0 x 14mm	Button head socket cap screw			<u>PDF</u>
<u>161094</u>	2	\$3.00		Socket head cap screw			PDF
<u>161080</u>	Dim	\$2.50		Flat head socket cap screw			<u>PDF</u>
<u>161061</u>	<pre></pre>	\$2.50	M6-1.0 x 16mm	Button head socket cap screw			<u>PDF</u>
<u>161095</u>		\$3.00		Socket head cap screw			<u>PDF</u>
<u>161062</u>	(And a state of the state of th	\$3.00	— M6-1.0 x 18mm	Button head socket cap screw			PDF
<u>161096</u>	0	\$3.25	יאטא די איז איז איז איז איז איז איז איז איז אי	Socket head cap screw			PDF
<u>161081</u>		\$2.75	M6.1.0	Flat head socket cap screw			PDF
<u>161063</u>	Sec.	\$3.00	— M6-1.0 x 20mm	Button head socket cap screw			PDF

			15 Series Fast	teners - Continued			
	Fits	Slot Size	XX	(inch)			
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link
<u>161097</u>	O and	\$3.25	M6-1.0 x 20mm	Socket head cap screw			<u>PDF</u>
<u>161064</u>		\$3.25	M6-1.0 x 25mm	Button head socket cap screw			PDF
<u>161082</u>	<u>E</u>	\$4.75		Flat head socket cap screw			PDF
<u>161065</u>	<b>E</b>	\$4.25	M8-1.25 x 12mm	Button head socket cap screw			<u>PDF</u>
<u>161098</u>	Ð	\$4.75		Socket head cap screw	Bright zinc	10	PDF
<u>161066</u>	E	\$4.50		Button head socket cap screw			PDF
<u>161083</u>		\$5.00	M8-1.25 x 14mm	Flat head socket cap screw			<u>PDF</u>
<u>161099</u>	Ø.	\$5.00		Socket head cap screw			<u>PDF</u>
<u>161084</u>		\$5.50		Flat head socket cap screw			<u>PDF</u>
<u>161100</u>	e anno	\$5.50		Socket head cap screw			PDF
<u>161067</u>	See.	\$4.75	M8-1.25 x 16mm	Button head socket cap screw			PDF
<u>151183</u>	6	\$4.75		Button neau socket Cap SCIEW	Gloss black		PDF
<u>151184</u>		\$5.50		Flanged button head socket cap screw	GIUSS DIACK		PDF
<u>161085</u>	. The second sec	\$5.50	— M8-1.25 x 18mm	Flat head socket cap screw	Dricht zing		PDF
<u>161068</u>	2	\$5.25		Button head socket cap screw	Bright zinc		<u>PDF</u>

# 1-800-633-0405 For the latest

#### **Fasteners - Continued**

	15 Series Fasteners - Continued										
	Fits Slot Size										
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link				
<u>161101</u>	0	\$5.50	M8-1.25 x 18mm	Socket head cap screw			<u>PDF</u>				
<u>151241</u>	(Sen	\$4.50	- M8-1.25 x 20mm - - M8-1.25 x 25mm -	Button head socket cap screw			PDF				
<u>161102</u>		\$5.75		Socket head cap screw			PDF				
<u>161086</u>	-	\$7.00		M8-1.25 x 25mm	NO 4 05 05			Flat head socket cap screw	Bright zinc	10	PDF
<u>161069</u>		\$5.25						PDF			
<u>161070</u>	(Freedom)	\$8.00	M8-1.25 x 40mm	Button head socket cap screw			PDF				
<u>118284</u>		\$2.50	5/16-18 UNC x 1in	Hammer head screw and flange nut		1	PDF				

15 Series Self Forming / Tapping Screws									
	15 Series Fits Core Hole			(inch)	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		
<u>161105</u>	0	\$17.00	7.05.00	Self-Tapping Screw Button head socket cap		10	<u>PDF</u>		
<u>161106</u>	E.	\$9.25	7 x 25mm	Self-Tapping Screw Flanged button head socket cap T-40 Torx	Bright zinc		PDF		
<u>161107</u>	0	\$17.00	7 x 40mm	Self-Tapping Screw Button head socket cap			PDF		

#### Self Forming / Tapping Screw Installation

1.1.1 - 00

# 1-800-633-0405 For the latest **FATH**<sup>®</sup> **T-Slotted Rail Accessories**

#### **Connecting Components**

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

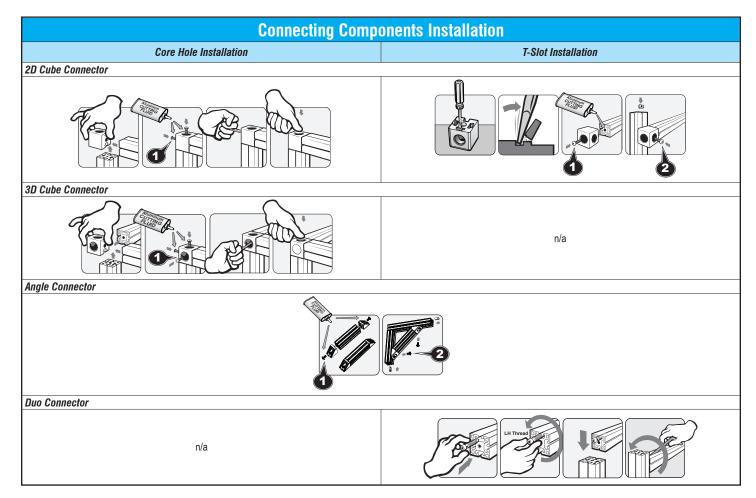
15 Series Connecting Components									
Fits Slot Size									
Part Number	Part Image	Price	Description	Fits Profile	Material	Recommen Fastener (ADC Core Hole Attachment	ded Screw Part Number) *T-Slot Attachment 2	Pack Quantity	Drawing Link
<u>148954</u>	00	\$10.00	2d Cube		Die-cast aluminum	<u>161105</u>	<u>151100</u>	1	PDF
<u>166302</u>		\$12.00	Connector 3d Cube Connector						PDF
<u>148957</u>		\$11.50		1.5 x 1.5in					PDF
<u>166303</u>		\$13.00		-					PDF
<u>151107</u>	19	\$8.00	Angle Connector				<u>161054</u>		PDF
<u>166304</u>	101	\$8.50							PDF
<u>151108</u>	1.7.1	\$11.50		1.5 x 3in					PDF
<u>166305</u>	10101	\$13.50							PDF
<u>151102</u>		\$23.50	Duo Connector	All 15 Series	Steel	n/a	n/a	10	PDF
<u>151103</u>		\$96.00	T-Matic Connector		Zinc plated steel				PDF
<u>151104</u>		\$59.00	Automatic Connector		Steel			1	PDF
*T-Slot Nut also required.									

# 1-800-633-0405 **FATH**<sup>®</sup> **T-Slotted Rail Accessories**

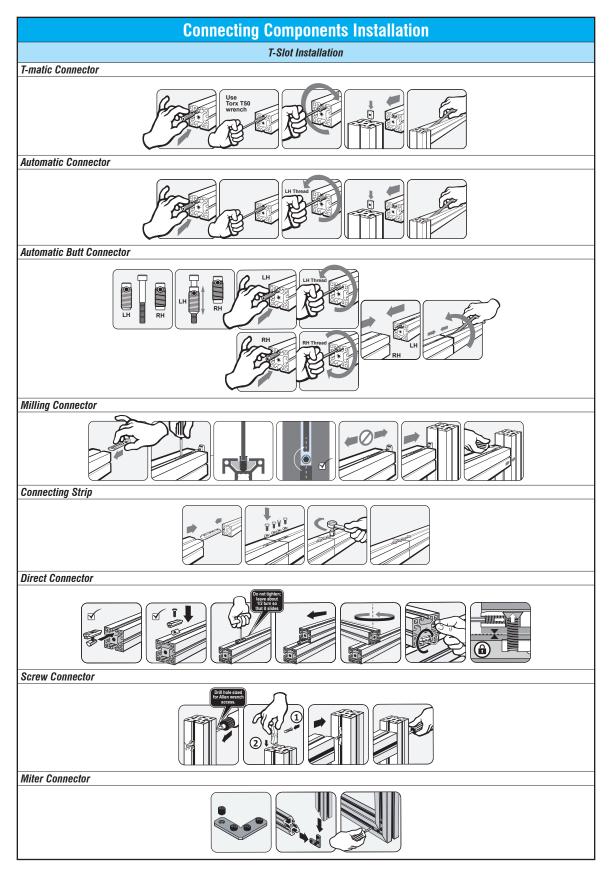
### **Connecting Components - Continued**

15 Series Connecting Components - Continued										
Fits Slot Size										
Part Number	Part Image	Price	Description	Fits Profile	Material		nded Screw 2 Part Number) *T-Slot Attachment 2	Pack Quantity	Drawing Link	
<u>151105</u>	Community Original Community	\$9.50	Automatic Butt Connector	All 15 Series	Steel	n/a	n/a	1	<u>PDF</u>	
<u>151106</u>	125-00	\$8.50	Milling Connector		Zinc plated steel				<u>PDF</u>	
<u>151109</u>	QQQQQQQQQQQQQ	\$15.50	Connecting Strip		Sleel				<u>PDF</u>	
<u>162891</u>		\$13.00	Direct Connector		Steel		Fasteners included		PDF	
<u>162961</u>	19 (9) (9) (9)	\$11.50	Miter Connector		Steel		M8-1.25 x 8mm set screw (4) included		PDF	
<u>163009</u>		\$13.25	Screw Connector		Zinc plated steel		Designer's choice		<u>PDF</u>	
T-Slot Nut also required										

## **Connecting Components - Continued**



### **Connecting Components - Continued**



# **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



		1	5 Series Joinin	g Plates		
	Fits	Slot Size	15 Series (inch) 1.5x1.5 1.5x3	<b>X</b> <b>X</b> 3x3		
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Drawing Link
<u>151110</u>	• •	\$5.25				PDF
<u>166306</u>		\$6.00				PDF
<u>151111</u>		\$4.75	Straight Flat Plate			PDF
<u>166307</u>		\$6.00				PDF
<u>151112</u>		\$6.25				PDF
<u>166308</u>		\$7.00				PDF
<u>151113</u>		\$6.00	Square Flat Plate	<u>151100</u> or <u>151101</u>	1	PDF
<u>166309</u>		\$7.00		<u>131100</u> 01 <u>131101</u>	I	PDF
<u>151114</u>	••••	\$8.50	_			PDF
<u>166310</u>		\$10.00	- Rectangular Flat Plate			PDF
<u>151115</u>		\$11.00				PDF
<u>166311</u>		\$12.00				PDF
<u>151116</u>		\$8.50	_			PDF
<u>166312</u>		\$10.00	Flat Plate			PDF
*T-Slot Nut also requ	ired		•			

## **Joining Plates - Continued**

		15 Se	ries Joining Pl	ates - Cont'd		
	Fits	Slot Size	15 Series (inch) 1.5x1.5 1.5x3	57 57 2 57 3 x 3		
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Drawing Link
<u>151117</u>		\$12.00				PDF
<u>166313</u>		\$14.00	- Flat Plate			PDF
<u>151118</u>	• • •	\$9.25				PDF
<u>166314</u>		\$11.00			1	PDF
<u>151119</u>	• • • •	\$12.00		<u>151100</u> or <u>151101</u>		PDF
<u>166315</u>		\$14.00	T-Shaped Flat Plate			PDF
<u>151120</u>		\$18.50				PDF
<u>166316</u>		\$22.00				PDF
<u>151121</u>		\$18.50	Cross Flat Plate			PDF
<u>166317</u>		\$22.00				PDF
<u>151122</u>		\$13.50	L-Shaped Flat Plate			PDF
<u>166318</u>	1	\$16.00	L-Shapeu Fiat Mate			PDF
<u>151123</u>		\$14.50	- T-Shaped Flat Plate			PDF
<u>166319</u>		\$17.00	י-טוומעכט דומג רומנפ			<u>PDF</u>
*T-Slot Nut also requ	lired					

## 1-800-633-0405 For the latest **FATH**<sup>®</sup> **T-Slotted Rail Accessories**

#### **Brackets**

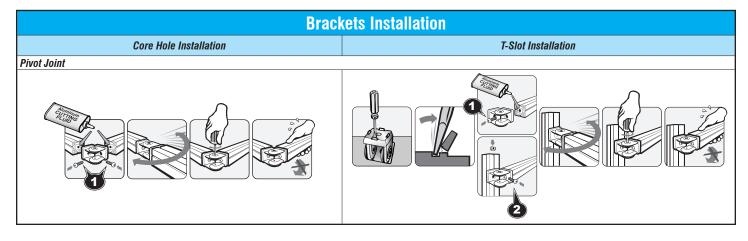
- Connects two T-slot rails together at a 90° angle
- Recommended ADC Fastener based on part feature and slot depth
- Material: varies by part

148916         Attachment         Attachment<			C	
Part Number         Part Image         Price         Description $C_{Allachment}$ $T.Slot$ Pack i           148916 $IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII$				
Part Number         Part Image         Price         Description         Core Hole Attachment         *T.Slot Attachment         *T.Slot Attachment         Pack I           148916         Image         \$4.00         Image         \$4.00         Image         Image         Pack I           166321         Image         \$4.00         Image         \$4.00         Image		crew Fastener lumber)		
Image: Constraint of the second of	Pack Quantity	*T-Slot Attachment	Material	Drawing Lin
166321       Image: Stand		151100		PDF
Image: Contract of the second secon		<u>131100</u>	Die-cast	PDF
166322       Image Nature       Image		161054	aluminum	PDF
166323       Image: height state		<u>101034</u>		<u>PDF</u>
166323       Image: Simple simpl	1	151101	Die-cast zinc	PDF
Inside Corner Bracket         n/a           166320         Image: State		<u>131101</u>		PDF
166320       Image: Marked state				<u>PDF</u>
Mide Inside Corner Bracket         Wide Inside Corner Bracket         151100 or 151101           151128         Image: Corner Bracket         Tall Inside Corner Bracket         151100 or 151101           166325         Image: Corner Bracket         Tall Inside Corner Bracket         151100 or 151101           148906         Image: Space S				PDF
166324         Image: Imag				PDF
131128         Image: Solution of the solution		<u>151100</u> or <u>151101</u>	Anodized aluminum	PDF
166325         Fracket           148906         \$9.00				PDF
				PDF
Inside Corner Bracket				PDF
166326 \$11.00				PDF

#### **Brackets - Continued**

			15 Series E	Brackets - Con	tinued			
	Fits	Slot Size	15 Ser 1.5x1.5	ies (inch)				
Part Number	Part Image	Price	Description	Recommended (ADC Part Core Hole Attachment	Screw Fastener t Number) *T-Slot Attachment 2	Pack Quantity	Material	Drawing Link
<u>151129</u>	C	\$3.75	Gusseted Inside					<u>PDF</u>
<u>166327</u>	0	\$4.00	Corner Bracket					<u>PDF</u>
<u>151130</u>	00	\$7.75	Tall Gusseted Inside				Anodized aluminum	<u>PDF</u>
<u>166328</u>	00	\$9.00	Corner Bracket					<u>PDF</u>
<u>148910</u>		\$6.75	Wide Gusseted Inside		<u>151100</u> or <u>151101</u>	1		PDF
<u>166329</u>	•	\$8.00	Corner Bracket					<u>PDF</u>
<u>151131</u>		\$13.00	Gusseted Inside					<u>PDF</u>
<u>166330</u>		\$16.00	Corner Bracket					PDF
<u>151132</u>		\$29.50	- Pivot Joint					PDF
<u>166331</u>		\$35.00	r ivot oonit	<u>161055</u>	<u>151100</u>		Die-cast zinc	PDF
<u>148933</u>		\$39.50	Pivot Joint With	<u>660101</u>	131100		וע-cast zinc	<u>PDF</u>
<u>166332</u>		\$45.00	Locking Handle					<u>PDF</u>
*T-Slot Nut also re	equired.		·					

#### **Brackets - Continued**



For the latest prices, please check AutomationDirect.com.

## 1-800-633-0405 **FATH<sup>®</sup> T-Slotted Rail Accessories**

#### Bases

Part Number

<u>118357</u>

<u>161043</u>

<u>151075</u>

151068

151071

<u>151072</u>

151073

<u>151069</u>

<u>151070</u>

151255

151256

<u>151257</u>

151258

• Recommended ADC Fastener based on part feature and core hole

Fits

Part Image

· Material: varies by part



n/a

\*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.

[79.0 mm]

3.90 in [99.0 mm] Swivel Base With Anti-

Slip Plate

Any 15mm ball

Threaded Rod

900 [1984]

3500 [7716]

\$6.00

\$6.00

\$10.00

\$10.00

\$24.00

\$24.00

Example:

Threaded rod load rating = 210kg [463lb]

Swivel base load rating = 3000kg [6614lb] Swivel foot assembly load rating = 210kg [463lb] PDF

PDF

PDF

PDF

PDF

PDF

Nylon

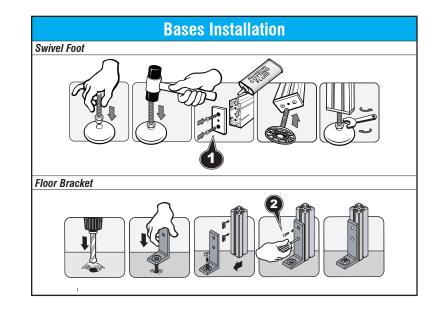
Die-cast

zinc

#### **Bases - Continued**

				15 Serie	es Bases	- continu	led				
	Fits	Slot S		15 S	eries (inch)						
				Load Recommended Screw Fastener (ADC Part Number)							
Part Number	Part Image	Price	Diameter	Description	Fits	Rating kg [lb]	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	Material	Drawing Link
<u>162933</u>	•	\$12.50	See 2D	Extended Swivel Base	Any 15mm ball Threaded	1000 [2204]		n/a		Nylon	PDF
<u>162934</u>	•	\$27.00	drawing		Rod	3000 [6613]		11/d		Die-cast zinc	PDF
<u>166333</u>		\$30.00			1.5 x 1.5 in,					Die-cast aluminum	PDF
<u>166334</u>		\$30.00		Foot Console	3 x 3in		n/a	<u>161054</u>	1		PDF
<u>166335</u>		\$30.00	n/a		1.5 x 3in,	n/a					PDF
<u>166336</u>	Л	\$30.00			3 x 3in						PDF
<u>162957</u>		\$11.50		Floor Bracket	1.5 x 1.5 in, 1.5 x 3in, 3 x 3in			<u>151100</u>		Anodized aluminum	PDF
**Based on ins Load rating of Example: Threaded rod Swivel base lo	-Slot Nut also required Based on installation with Transport / Base Plate oad rating of a swivel foot assembly is based on the part with the lowest load rating, typically the threaded rod. xample: hreaded rod load rating = 210kg [463lb] wivel base load rating = 3000kg [6614lb] wivel foot assembly load rating = 210kg [463lb]										

#### **Bases - Continued**



#### Casters

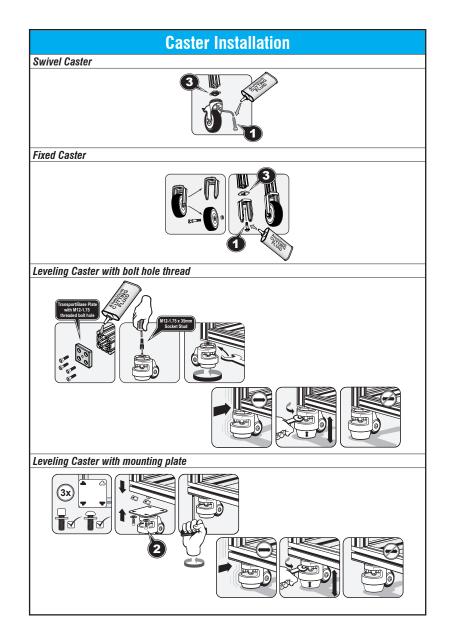
- Recommended ADC Fastener based on part feature and attachment type
- Material: varies by part

				15 Series	Casters					
	Fits	Slot Size	3	15 Series (inch 1.5x1.5 1.5x3						
Part Number	Part Image	Price	Description	Requires	Load Rating kg [lb]	Recommended (ADC Par Core Hole Attachment	Screw Fastener t Number) *T-Slot Attachment 2	Pack Quantity	Material	Drawing Link
<u>151134</u>	J	\$47.00	Swivel Caster (requires Swivel Caster Adapter Plate <u>151136)</u>	n/a	122 [269]	<u>161107</u>			Thermoplastic polyurethane/	PDF
<u>151135</u>	6	\$40.50	Fixed Caster (requires Fixed Fixed Caster Adapter Plate <u>161040)</u>	1¥a	122 [209]	<u>161106</u>	n/a		nylon/steel	PDF
<u>151136</u>	2	\$4.50	3 Swivel Caster Adapter Plate	Requires Swivel Caster <u>151134)</u>	n/a				Steel	PDF
<u>161040</u>		\$3.50	3 Fixed Fixed Caster Adapter Plate	Requires Fixed Caster <u>151135</u>	Tird				Die-cast zinc	PDF
<u>151137</u>	- T	\$62.00	Swivel Caster	n/a	122 [269]		161053		Thermoplastic	PDF
<u>151138</u>		\$49.00	Fixed Caster	1i/d	122 [203]		101033	1	polyurethane/ nylon/steel	PDF
<u>163010</u>		\$40.00		Transport / Base Plate with	250 [551]	n/a	n/a	-		PDF
<u>163011</u>		\$52.00	Leveling Caster	M12-1.75 threaded hole	500 [1102]		11/a		Die-cast aluminum/	PDF
<u>163012</u>		\$41.00	Levening Caster		250 [551]		151040		steel/nylon/ rubber	PDF
<u>163013</u>		\$56.00		n/a	500 [1102]		<u>151040</u>			PDF
*T-Slot Nut also	required									

www.automationdirect.com

## 1-800-633-0405 For the latest

#### **Casters - Continued**



#### Hinges

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



			15 Ser	ies Hinges			
	Fits	Slot Size	15 Series ( 1.5x1.5 1.	inch)			
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Material	Drawing Link
<u>151139</u>		\$7.25	Left-Hand Detachable Combination Hinge				PDF
<u>151140</u>		\$7.25	Right-Hand Detachable Combination Hinge			Fiberglass reinforced plastic	PDF
<u>151141</u>		\$7.25	Non-Detachable Combination Hinge				PDF
<u>151142</u>		\$12.50	Non-Detachable Combination Hinge With Locking Lever	<u>161075</u>	1		PDF
<u>151143</u>	a a a	\$18.00	Left-Hand Detachable Combination Hinge			Die-cast aluminum	PDF
<u>151144</u>	3 3	\$18.00	Right-Hand Detachable Combination Hinge				PDF
<u>151145</u>	a a a a a a a a a a a a a a a a a a a	\$18.00	Non-Detachable Combination Hinge				PDF
*T-Slot Nut also requ	ired				-		

#### Panel and Door Elements

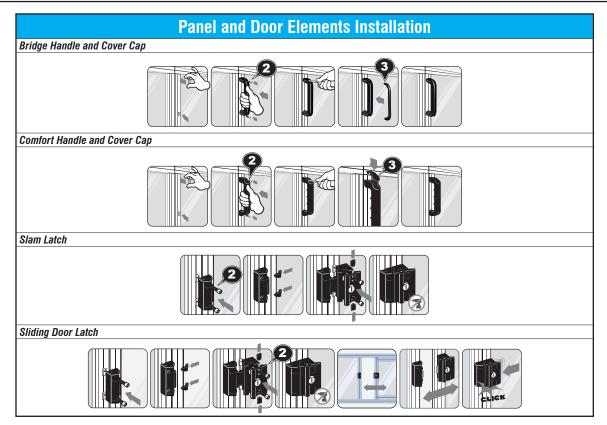
- Recommended ADC Fastener based on part feature and slot depth
- Material: varies by part



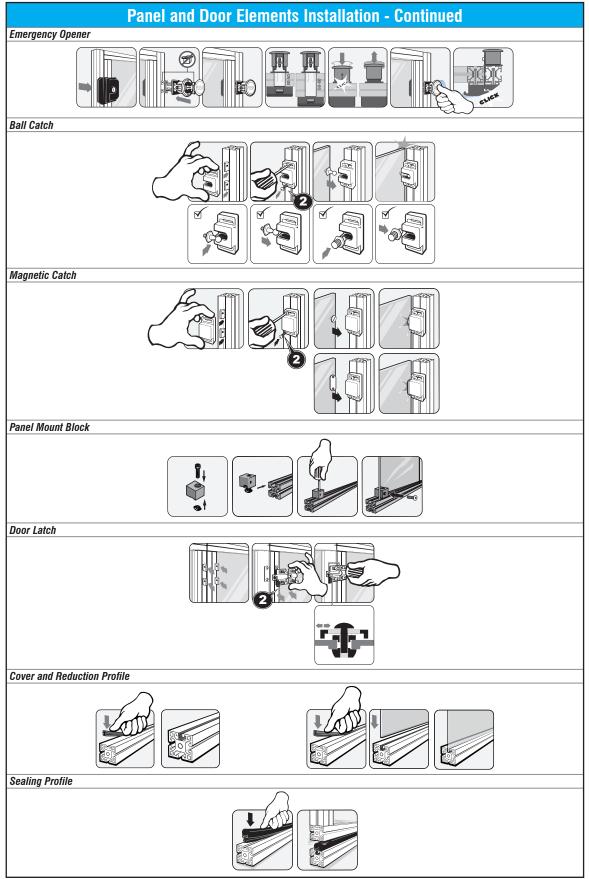
		1	5 Serie <u>s Panel</u>	and Door Elements			
	Fits	Slot Size	15 Series				
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (2) (ADC Part Number)	Pack Quantity	Material	Drawing Link
<u>151146</u>	$\checkmark$	\$6.00	Drides Headle	<u>161048</u>			PDF
<u>151147</u>	C	\$6.00	Bridge Handle	<u>151100</u>			PDF
<u>151148</u>		\$6.25	Cover Cap 3	n/a			PDF
<u>151149</u>		\$6.50	Comfort Handle	<u>161054</u>		Fiberglass	PDF
<u>151150</u>	~~~	\$2.25	Cover Cap 3	n/a		reinforced plastic	<u>PDF</u>
<u>151151</u>		\$12.50	Comfort Handle	<u>161054</u>			PDF
<u>151152</u>	~~~	\$3.00	Cover Cap 3	n/a	1		PDF
<u>151153</u>		\$33.50	Machine Handle	<u>151100</u>			PDF
<u>151154</u>		\$47.00	Compact Slam Latch				PDF
<u>151155</u>		\$58.00	Compact Sliding Door Latch	<u>161050</u>		Die-cast aluminum	PDF
<u>151156</u>	G	\$37.00	Emergency Opener	<u>161087</u>		Fiberglass reinforced plastic	PDF
<u>151157</u>	× ***	\$7.25	Ball Catch	<u>161051</u>			PDF
*T-Slot Nut also requ	ired						

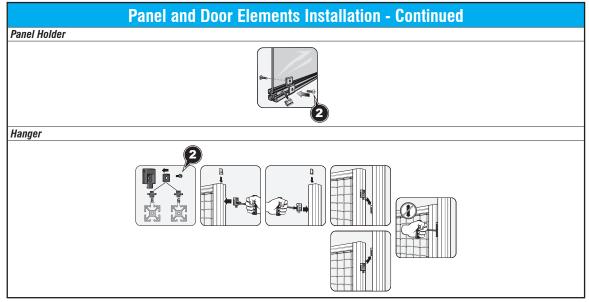
	15 Series Panel and Door Elements - Continued											
	Fits Slot Size											
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Pack Quantity	Material	Drawing Link					
<u>151158</u>	135 15 3	\$14.50	Double Ball Catch	<u>161076</u>		Brass	PDF					
<u>151159</u>		\$23.00	Door Latch	<u>161087</u>		Die-cast zinc	PDF					
<u>162963</u>		\$8.50	Magnetic Catch	<u>161048</u>		Nylon/steel	<u>PDF</u>					
<u>162911</u>	9	\$5.00	Panel Holder	<u>151100</u>		Anodized aluminum	PDF					
<u>162916</u>	•	\$6.00					PDF					
<u>162922</u>	•	\$5.75	Panel Mount Block	Fasteners included		Lacquered aluminum	PDF					
<u>162923</u>		\$5.75				Powder-coated aluminum	PDF					
<u>162977</u>	þþ	\$8.50	Hanger	<u>161050</u>		Die-cast zinc	PDF					
<u>162978</u>		\$3.00	Panel Uni-Block	n/a	10	Nylon	PDF					
<u>162979</u>		\$3.00		iva	10	туюн	PDF					
*T-Slot Nut also require	ed											

		15 Serie	es Panel and D	oor Elements - Conti	nued		
	Fits	Slot Size	15 Series ( 1.5x1.5 1.	(inch)			
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Material	Drawing Link
<u>151160</u>	,	\$58.00	Sealing Strip		2	PVC/TPE	<u>PDF</u>
<u>151163</u>		\$25.00	Cover Profile			Nitrile rubber	<u>PDF</u>
<u>162928</u>		\$525.00	Sealing Profile	n/a	1	Nitrile rubber	PDF
<u>151165</u>		\$91.00	Cover Profile		25	Polymonyloss	PDF
<u>151164</u>		\$115.00	Cover And Reduction Profile		20	Polypropylene	PDF
*T-Slot Nut also requir	red						



# **FATH T-Slotted Rail Accessories**

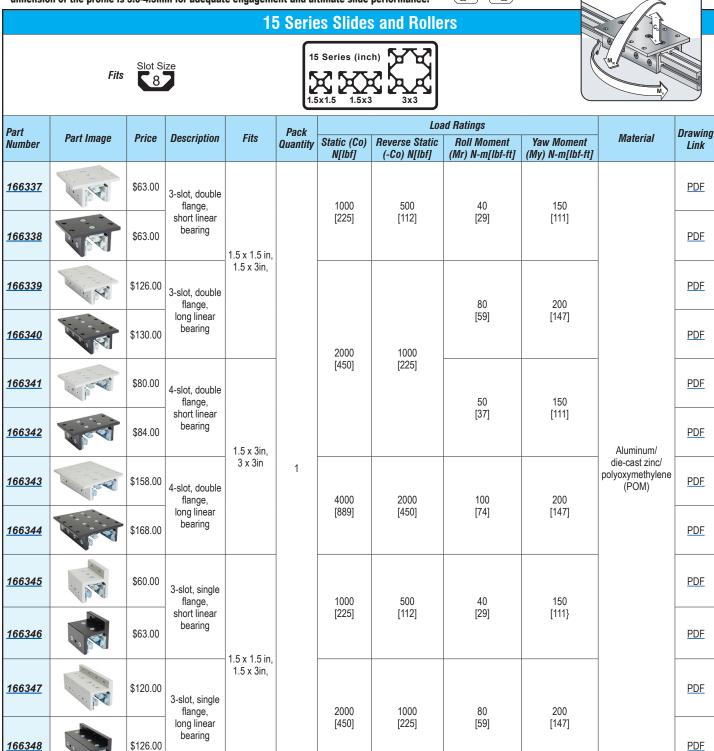


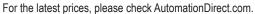


#### **Slides and Rollers**

#### 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

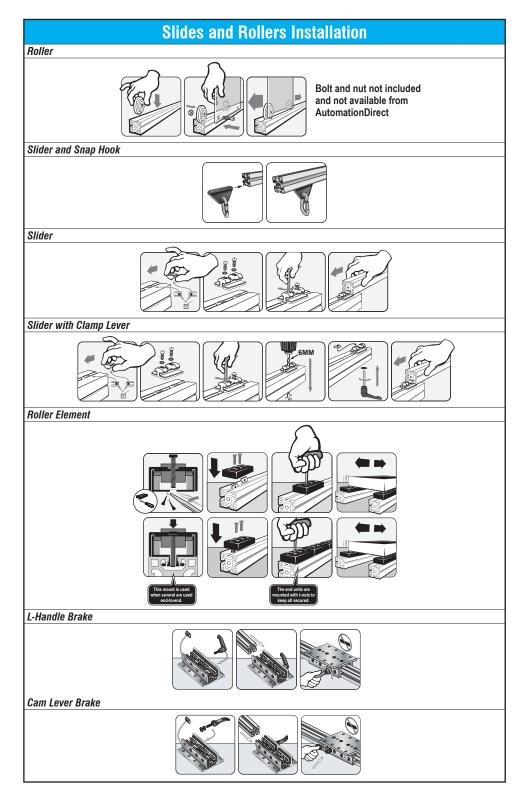
performance

## **Slides and Rollers - Continued**



			<b>15 Series Slides</b>	and Roll	ers - C	ont'd		
	Fits	Slot Size	XX	(inch)	K K K			
Part Number	Part Image	Price	Description	Fits	Pack Quantity	Recommended Screw Fastener T-Slot Attachment <b>2</b>	Material	Drawing Link
<u>166349</u>	-	\$45.00	Cam Lever Brake	All 15 Series		n/a	Plastic/steel	<u>PDF</u>
<u>166350</u>		\$28.00	L-Handle Brake	Bearings		100	1 103110/31001	<u>PDF</u>
<u>151168</u>	o and the	\$18.00	Slider			Esta suite de la	Rubber/plastic/	<u>PDF</u>
<u>151169</u>	Contraction of the local data	\$36.00	Slider With Clamp Lever	n/a		Fasteners included	steel	<u>PDF</u>
<u>148974</u>		\$9.50	Roller		1		Nylon	<u>PDF</u>
<u>151166</u>		\$4.50	Slider			n/a	Glass-filled nylon	PDF
<u>151089</u>	-	\$4.50	Snap Hook	Slider <u>151166</u>			Zinc plated steel	<u>PDF</u>
<u>163020</u>	least	\$14.50	Roller Element With Guide	- All 15 Series		Fasteners included	Thermoplastic polyurethane/	<u>PDF</u>
<u>163021</u>	Rolot	\$14.50	Roller Element Without Guide				nylon/steel	<u>PDF</u>

### **Slides and Rollers - Continued**



#### **Monitor Mounts**

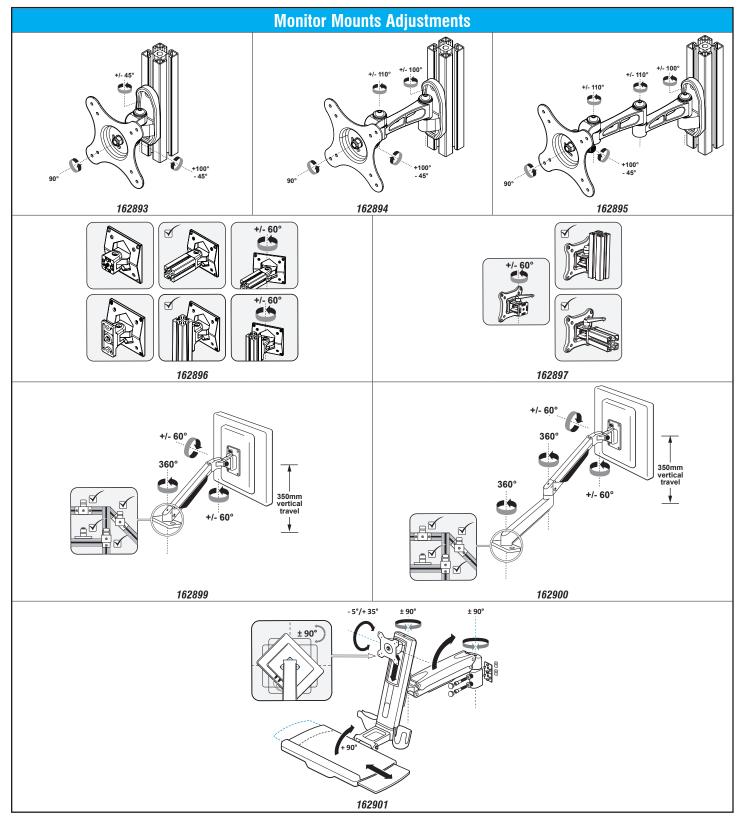




			15 Series Monitor	Mounts				
Durable steel	ware included for several	Fits Slot Size			• VESA Mounting Standard III 300 X 100mm III 75 X 75mm III 4X M4-0.7 Threaded Holes • •			
Part Number	Part Image	Price	Description	Load Rating kg [lb]	Pack Quantity	Installation Instructions Link	Drawing Link	
<u>162893</u>	ey	\$42.00				PDF	<u>PDF</u>	
<u>162894</u>		\$50.00	Swivel Monitor Mount			PDF	PDF	
<u>162895</u>	<b>FFO</b>	\$58.00		15 [33.1]		PDF	PDF	
<u>162896</u>	Ħ	\$92.00	Monitor Mounting Joint			PDF	PDF	
<u>162897</u>		\$92.00	Monitor Holder		1	PDF	PDF	
<u>162899</u>		\$325.00	4-Axis Mounting Support			PDF	PDF	
<u>162900</u>		\$394.00	5-Axis Mounting Support	10 [22.0]		PDF	PDF	
<u>162901</u>		\$630.00	4-Axis Workstation	8 [17.6]		PDF	PDF	

## **FATH T-Slotted Rail Accessories**

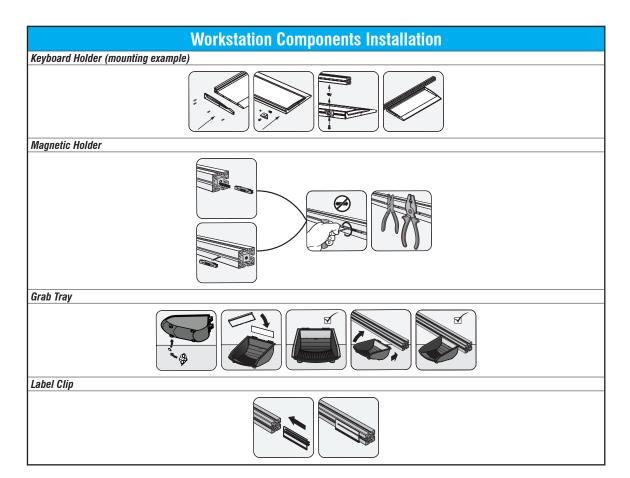
#### **Monitor Mounts - Continued**



#### **Workstation Components**



	15 Series Workstation Components								
	Fits Slot Size $15$ Series (inch) $15$ Series (inch) $15$ Series								
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)			Aluminum/nylon	<u>PDF</u>		
<u>162906</u>		\$8.00	Magnetic Holder	n/a	1	Nylon/steel	PDF		
<u>162964</u>		\$9.00	Grab Tray	_ n/a 1		Nylon	PDF		
<u>162965</u>		\$2.00	Label Clip			PVC	PDF		



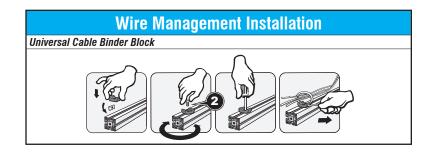
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### Wire Management





			15 Series Wire I	Vlanage	ement		
	Fits	Slot Size	15 Series (inch 1.5x1.5 1.5x3				
Part Number	Part Image	Price	Description	Pack Quantity	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Material	Drawing Link
<u>151161</u>		\$89.00	0			Delaura has	<u>PDF</u>
<u>151162</u>		\$93.00	Conduit Cover 2000mm long	2		Polypropylene	<u>PDF</u>
<u>151174</u>		\$15.50	Cross Cable Binding Block		n/a	Nylon	<u>PDF</u>
<u>151175</u>	9	\$64.00	Hook And Loop	10		Glass-filled nylon/ polypropylene	<u>PDF</u>
<u>151176</u>	~	\$38.50	Clip Cable Binder With Hammer			Nylon/rubber	<u>PDF</u>
<u>151177</u>	R.	\$28.50	Ground Connector	1	Fasteners included	Glass-filled nylon/ copper/steel	PDF
<u>151178</u>	And the second s	\$4.00	Grounding Terminal			Steel/brass	PDF
<u>162982</u>		\$7.50	Universal Cable Binder Block	10	<u>161046</u>	Nylon	PDF
*T-Slot Nut also require	ed						



#### **Miscellaneous Accessories**



			15 Series Mis	scellan	eous Aco	cessories			
	Fits	Slot Size	15 S 1.5 x 1	eries (inch					
Part Number	Part Image	Price	Description	Requires	Fits Profile	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Pack Quantity	Material	Drawing Link
<u>151171</u>		\$16.50			1.5 x 1.5in				PDF
<u>151172</u>		\$21.00	End Cap		1.5 x 3in		10	Glass-filled nylon	PDF
<u>151173</u>		\$37.00		_	3 x 3in	n/a			PDF
<u>151091</u>		\$6.00	Ctop Dumper					Rubber/zinc- plated steel	<u>PDF</u>
<u>151170</u>		\$9.00	Stop Bumper	n/a			PDF		
<u>162973</u>		\$3.25	Sensor Mounting Block for 8mm proximity sensor			BHCS 8-32 x 1"	1	Nylon	PDF
<u>162974</u>		\$3.25	Sensor Mounting Block for 12mm proximity sensor		All 15 Series	(not sold by ADC)			PDF
<u>162929</u>		\$252.00	Side Protection Profile				5		<u>PDF</u>
<u>162930</u>	<b>P</b>	\$284.00	Corner Protection Profile					Thermoplastic	PDF
<u>162931</u>		\$28.00	Cover Cap for Side	<u>162929</u> or <u>162930</u>		n/a	10	rubber	PDF
<u>162932</u>		\$21.00	Cover Cap for Corner	<u>162930</u>					<u>PDF</u>
*T-Slot Nut also re	equired			1		1			

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#### **Miscellaneous Accessories - Continued**

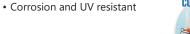
	Miscellaneous Installation
Sensor Mounting Block	
Side Protection Profile	
Corner Protection Profile	
Ourse One for Dide	
Cover Cap for Side	$\frown$
Cover Cap for Corner	

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## 30 Series Metric T-Slotted Aluminum Rail

SureFrame<sup>™</sup> 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.

- $\ensuremath{\cdot}$  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]
   Correction and LIV registrant
   CUT TO LENGTH



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



			30	Series (metri	c)				
	Slot Size	Core Hole Ø 7.3	3 mm	30 Series (mm) 30 x 30 x 60 60 x 60			T-Slot Drop Lock feature improves connection strength and vibration resistance		
Part Number	Part Image	Price per cm	Profile Size	Weight Class	Weight Ibs/ft [kg/m]	Moment of Inertia Lx	Moment of Inertia Ly	Drawing Link	
<u>30-3030C</u>		\$0.13	30 x 30mm		0.605 [0.900]	0.068 in <sup>4</sup> [2.829 cm <sup>4</sup> ]	0.068 in <sup>4</sup> [2.829 cm <sup>4</sup> ]	<u>PDF</u>	
<u>30-3060C</u>		\$0.21	30 x 60mm	Standard	1.058 [1.574]	0.130 in <sup>4</sup> [5.408 cm <sup>4</sup> ]	0.473 in <sup>4</sup> [19.677 cm <sup>4</sup> ]	<u>PDF</u>	
<u>30-6060C</u>	R R R	\$0.31	60 x 60mm		1.681 [2.502]	0.871 in <sup>4</sup> [36.234 cm <sup>4</sup> ]	0.871 in <sup>4</sup> [36.234 cm <sup>4</sup> ]	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.

29,007 psi [200 MPa]

33,359 psi [230 MPa]

10,000,000 psi [68.9 GPa]

1-800-633-0405



### **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







UNIFORMLY DISTRIBUTED LOAD (simply supported)

CONCENTRATED LOAD AT CENTER (between fixed supports)

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

5 WL<sup>4</sup> 84 El

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

MAX DEFLECTION = -

UNIFORMLY DISTRIBUTED LOAD (between fixed supports)



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

Aluminum 6063-T6 Properties

#### Cantilever Loads

CONCENTRATED LOAD AT CENTER (simply supported)

Yield Strength

**Tensile Strength** 

Modulus of Elasticity



UNIFORMLY DISTRIBUTED LOAD (simply supported)

TOTAL DISTRIBUTED LOAD W = 
$$\frac{1}{L}$$
  
MAX DEFLECTION =  $\frac{WL^4}{8 EI}$ 

## **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

Material: zinc plated steel										
	T-Slot Nuts Selection									
Part Image	Nut Type	Installation	Holds Position Without Screw	ESD Connection						
00	Double Economy T-Nut			No						
0	Economy T-Nut									
	Hammer Nut	Tier	No	Yes						
a	Slide-In Nut									
ETO.	Roll-In Nut with Leaf Spring		Vac	No						
	Roll-In Nut with Spring Loaded Ball		Yes							



	30 Series T-Slot Nuts							
	Fits	Slot Size	30 Series (mm) 30x30 30x60	50x60				
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link		
<u>161126</u>	10	\$8.25		10-32 UNF		PDF		
<u>151097</u>		\$9.50	Hammer Nut	1/4-20 UNC		PDF		
<u>161127</u>		\$8.00				PDF		
<u>161116</u>	Tax	\$16.75	Roll-In Nut	- M4-0.7	10	PDF		
<u>161128</u>	IQ.	\$8.00	Hammer Nut	ME 0.9		PDF		
<u>161117</u>	TOP	\$16.75	Roll-In Nut	M5-0.8		PDF		

### **T-Slot Nuts - Continued**

	30 Series T-Slot Nuts - Continued								
	Fits Slot Size $30$ Series (mm) $50$ $50x60$ $60x60$								
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link			
<u>151179</u>	9	\$6.50	Economy T-Nut		10	PDF			
<u>151180</u>	00	\$5.25	Double Economy T-Nut		4	PDF			
<u>151181</u>	(Test)	\$9.00	Hammer Nut	M6-1.0		PDF			
<u>161118</u>	- TON	\$16.75	Roll-In Nut		10	PDF			
<u>151182</u>	- TON	\$19.00	Koli-ili nut	M8-1.25		PDF			

#### 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



			30 Serie	es Fasteners				
	Fits Slot Size							
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link	
<u>162994</u>	B	\$8.00	8-32 UNF x 3/8in	Button head socket cap screw			<u>PDF</u>	
<u>161073</u>	Com	\$7.75	8-32 UNF x 1/2in	Flat head socket cap screw		10	<u>PDF</u>	
<u>162993</u>	(hanno)	\$7.50	10-32 UNF x 3/8in	Button head socket cap screw			PDF	
<u>162995</u>		\$7.75		Socket head cap screw			<u>PDF</u>	
<u>161046</u>	<u>Sono</u>	\$4.75	10-32 UNF x 1/2in		Flat black		PDF	
<u>161047</u>		\$5.00	10-32 UNF x 5/8in	Button head socket cap screw			<u>PDF</u>	
<u>161048</u>	(Canada)	\$5.75	10-32 UNF x 3/4in				<u>PDF</u>	
<u>161074</u>	O	\$6.25		Flat head socket cap screw			<u>PDF</u>	
<u>151040</u>	0,	\$4.25	1/4-20 UNC x 1/2in	Button head socket cap screw			<u>PDF</u>	
<u>151041</u>	Ø	\$5.25	-	Flanged button head socket cap screw	Gloss black		PDF	
<u>161049</u>	()	\$4.75	1/4-20 UNC x 9/16in	Button head socket cap screw			<u>PDF</u>	
<u>161075</u>	Com	\$6.25		Flat head socket cap screw	Elat black		PDF	
<u>161050</u>	-	\$4.75	1/4-20 UNC x 5/8in	Button head socket cap screw	- Flat black		PDF	
<u>161087</u>		\$4.00		Socket head cap screw			<u>PDF</u>	

			30 Series Fast	teners - Continued			
	Fits	Slot Size	30 Series				
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link
<u>161051</u>		\$4.75	1/4-20 UNC x 3/4in	Button head socket cap screw	Flat black	10	PDF
<u>161052</u>		\$5.25	1/4-20 UNC x 1in				PDF
<u>161088</u>	0	\$2.25	M4-0.7 x 8mm	Socket head cap screw			PDF
<u>161089</u>	and the second s	\$2.50	- M4-0.7 x 10mm	Source nead cap sciew			PDF
<u>161056</u>	2	\$1.00	M4-0.7 X 10mm	Button head socket cap screw	-		<u>PDF</u>
<u>161076</u>	() Designed	\$1.50	M4-0.7 x 12mm	Flat head socket cap screw			<u>PDF</u>
<u>161057</u>	<b>P</b>	\$1.25	- M5-0.8 x 10mm	Button head socket cap screw			<u>PDF</u>
<u>161090</u>	e la compañía de la compa	\$2.50	W3-0.0 X TOHIH	Socket head cap screw			PDF
<u>161077</u>	Down	\$1.75	_	Flat head socket cap screw	Bright zinc		PDF
<u>161091</u>	e	\$2.75	M5-0.8 x 12mm	Socket head cap screw			<u>PDF</u>
<u>161058</u>	8	\$1.75		Button head socket cap screw			<u>PDF</u>
<u>161092</u>	E)	\$2.75	M6-1.0 x 10mm	Socket head cap screw			<u>PDF</u>
<u>161078</u>	Day	\$2.25		Flat head socket cap screw			PDF
<u>161059</u>	2	\$2.00	M6-1.0 x 12mm	Button head socket cap screw			PDF
<u>161093</u>		\$2.75		Socket head cap screw			<u>PDF</u>

30 Series Fasteners - Continued									
Fits Slot Size									
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link		
<u>161079</u>	De	\$2.50	- M6-1.0 x 14mm	Flat head socket cap screw			PDF		
<u>161060</u>	8	\$2.25		Button head socket cap screw			<u>PDF</u>		
<u>161094</u>	e la compañía de la	\$3.00	M6-1.0 x 14mm	Socket head cap screw		10	<u>PDF</u>		
<u>161080</u>	<b>O</b>	\$2.50		Flat head socket cap screw			<u>PDF</u>		
<u>161061</u>	<ul><li>Second second s</li></ul>	\$2.50	M6-1.0 x 16mm	Button head socket cap screw			<u>PDF</u>		
<u>161095</u>	Ø.	\$3.00		Socket head cap screw			PDF		
<u>161062</u>		\$3.00	- M6-1.0 x 18mm	Button head socket cap screw			<u>PDF</u>		
<u>161096</u>		\$3.25	W0-1.0 X 101111	Socket head cap screw	Bright zinc		PDF		
<u>161081</u>		\$2.75		Flat head socket cap screw			PDF		
<u>161063</u>		\$3.00	M6-1.0 x 20mm	Button head socket cap screw	-		<u>PDF</u>		
<u>161097</u>		\$3.25		Socket head cap screw			<u>PDF</u>		
<u>161064</u>	8	\$3.25	M6-1.0 x 25mm	Button head socket cap screw			PDF		
<u>161082</u>	<u>E</u>	\$4.75		Flat head socket cap screw			PDF		
<u>161065</u>	æ,	\$4.25	M8-1.25 x 12mm	Button head socket cap screw			PDF		
<u>161098</u>	e -	\$4.75		Socket head cap screw			PDF		

30 Series Fasteners - Continued									
Fits Slot Size									
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link		
<u>161066</u>	E	\$4.50	- M8-1.25 x 14mm	Button head socket cap screw			PDF		
<u>161083</u>		\$5.00	Mo-1.23 X 1411111	Flat head socket cap screw			PDF		
<u>161099</u>	Ø.	\$5.00	M8-1.25 x 14mm	Socket head cap screw	Bright zinc		PDF		
<u>161084</u>		\$5.50	_	Flat head socket cap screw	Bright Zinc	10	PDF		
<u>161100</u>	C. Solar	\$5.50	_	Socket head cap screw			PDF		
<u>161067</u>	Sent and a sent and a sent a s	\$4.75	M8-1.25 x 16mm	Button head socket cap screw			PDF		
<u>151183</u>	6	\$4.75			Gloss black		PDF		
<u>151184</u>	0	\$5.50		Flanged button head socket cap screw	GIUSS DIACK		PDF		
<u>161085</u>		\$5.50		Flat head socket cap screw			PDF		
<u>161068</u>	es_	\$5.25	M8-1.25 x 18mm	Button head socket cap screw			PDF		
<u>161101</u>	0	\$5.50		Socket head cap screw	Bright zinc		PDF		
<u>151241</u>		\$4.50	- M8-1.25 x 20mm	Button head socket cap screw			PDF		
<u>161102</u>	0	\$5.75		Socket head cap screw			PDF		

30 Series Fasteners - Continued									
Fits Slot Size									
Part Number	Part Image	Price	Thread X Length Head Type Color Pack Quantity Drawing						
<u>161086</u>	Common and the second	\$7.00	M0.4.05	Flat head socket cap screw	- Bright zinc	10	<u>PDF</u>		
<u>161069</u>		\$5.25	M8-1.25 x 25mm				<u>PDF</u>		
<u>161070</u>	Summer of the second se	\$8.00	M8-1.25 x 40mm	Button head socket cap screw			PDF		

30 Series Self Forming / Tapping Screws										
30 Series       Fits       Core Hole       30 Series (mm)       30 Series (mm)					Works with Aluminum with hole diameter 0.276" - 0.295" [7.0 - 7.5 mm]					
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link			
<u>161108</u>	R.	\$9.25	005	Self-Tapping Screw Flanged button head socket cap T-40 Torx	Dricht sins	10	PDF			
<u>161109</u>	O	\$8.75	8 x 25mm	Self-Tapping Screw Flat head socket cap	Bright zinc	10	PDF			

Self Forming / Tapping Screw Installation	

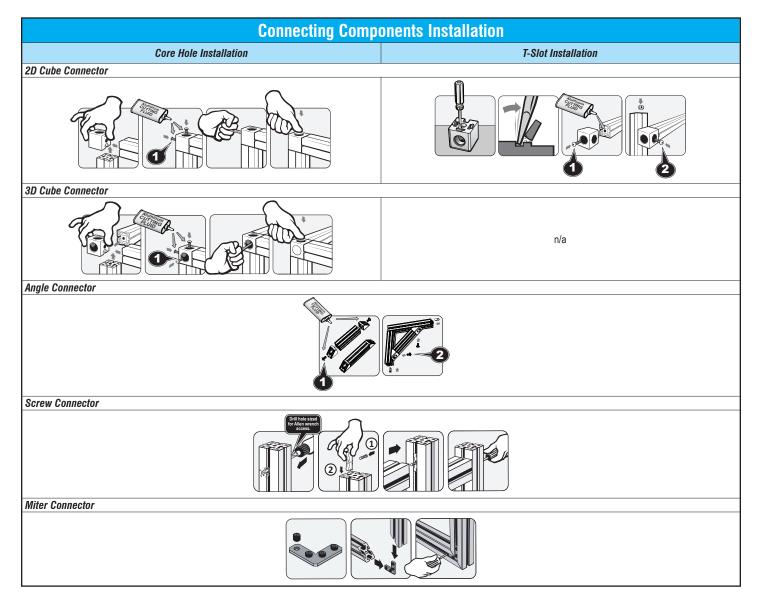
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## 1-800-633-0405 For the latest **FATH**<sup>®</sup> **T-Slotted Rail Accessories**

### **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

30 Series Connecting Components										
						Recommended Screw Fastener (ADC Part Number)				
Part Number	Part Image	Price	Description	Fits Profile	Material	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	Drawing Link	
<u>151185</u>		\$9.50	2d Cube Connector	30 x 30mm 30 x 60mm 60 x 60mm 30 x 30mm 30 x 60mm 30 x 30mm 30 x 60mm		<u>161085</u> <u>151241</u> Requires manually	<u>161083</u>	1	<u>PDF</u>	
<u>151186</u>		\$10.50	3d Cube Connector		Die-cast aluminum		n/a		PDF	
<u>151187</u>	101	\$6.00					<u>161066</u> M8-1.25 x 8mm set screw (4) included		<u>PDF</u>	
<u>151188</u>	10201	\$10.00	Angle Connector		-	tapping core hole to M8-1.25 x 20 DP			<u>PDF</u>	
<u>162961</u>	() () () () () () () () () () () () () (	\$11.50	Miter Connector		Steel	n/a			PDF	
<u>163008</u>	-0	\$10.75	Screw Connector	60 x 60mm	Zinc plated steel	Designer's choice	n/a	10	PDF	
*T-Slot Nut also requir	ed.		11		1	1	1	1		



#### 1-800-633-0405 For the latest **FATH**<sup>®</sup> **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

		3(	O Series Joinin	g Plates		
	Fits	Slot Size	30 Series (mm) 30x30 30x60	60×60		
Part Number	Part Image	Price	Description	Recommended Screw Fastener - T-Slot Hole Attachment (ADC Part Number)	Pack Quantity	Drawing Link
<u>151189</u>		\$4.50				PDF
<u>162985</u>	2.2.2	\$8.00	Straight Flat Plate			PDF
<u>151190</u>		\$5.50				PDF
<u>151191</u>		\$5.50	Square Flat Plate			<u>PDF</u>
<u>151192</u>	· · · · ·	\$9.50	Rectangular Flat Plate	<u>161059</u>	1	<u>PDF</u>
<u>151193</u>		\$9.50	Flat Plate			PDF
<u>151194</u>	• • • •	\$10.00				PDF
<u>162988</u>		\$18.00	T-Shaped Flat Plate			PDF

#### **Brackets**

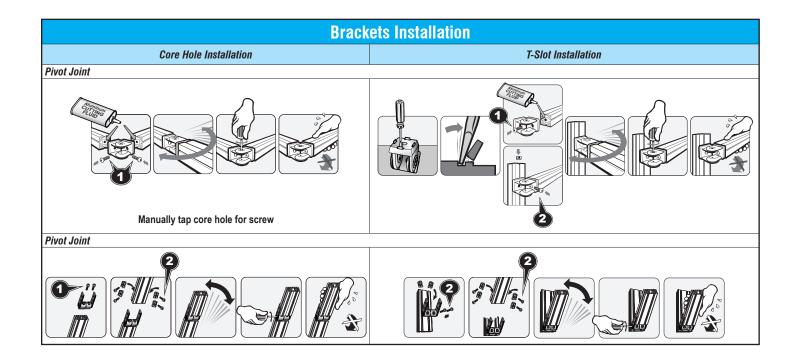
- Connects two T-slot rails together at a 90° angle
- Recommended ADC Fastener based on part feature and slot depth
- Material: varies by part





30 Series Brackets											
	Fits	Slot Size	30 Ser 30x30								
				Recommended S (ADC Part							
Part Number	Part Image	Price	Description	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	Material	Drawing Link			
<u>151195</u>		\$4.25	Inside Corner Bracket					<u>PDF</u>			
<u>151196</u>		\$5.25	Wide Inside Corner Bracket					PDF			
<u>151197</u>		\$5.75	Tall Inside Corner Bracket		n/a <u>161059</u>			<u>PDF</u>			
<u>151198</u>		\$11.00	Inside Corner Bracket				Anodized aluminum	PDF			
<u>162989</u>		\$2.25	Gusseted Inside Corner Bracket	n/a				PDF			
<u>162990</u>	00	\$4.75	Tall Gusseted Inside Corner Bracket					<u>PDF</u>			
<u>162991</u>		\$4.75	Wide Gusseted Inside Corner Bracket			1		<u>PDF</u>			
<u>162992</u>	000	\$8.00	Gusseted Inside Corner Bracket					PDF			
<u>151199</u>		\$28.50	Pivot Joint	<u>161102</u> Requires manually	<u>161099</u>			<u>PDF</u>			
<u>151200</u>		\$38.50	Pivot Joint With Locking Handle	tapping core hole to M8-1.25 x 20mm DP	101033		Die-cast zinc	PDF			
<u>163014</u>		\$27.50	1-Slot Pivot Joint	Not possible	<u>161092</u>		Die-cast zinc/die-cast	PDF			
<u>163017</u>		\$36.50	2-Slot Pivot Joint	nor hossinie	101032		aluminum/ nylon	PDF			

#### **Brackets - Continued**



### 1-800-633-0405 For the latest prices, please check AutomationDirect.com.

#### Bases

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





				30 Ser	ies Base	es							
	Fits	Slot Size		30 Series ( 30x30 30		<u>ک</u> ک ج							
Part Number	Part Image	Price	Description	Fits	Load Rating kg [lb]				Material	Drawing Link			
<u>162940</u>		\$11.50	M8-1.25 Transport/ Base Plate							PDF			
<u>162941</u>	2	\$11.50	M10-1.5 Transport/ Base Plate	S0 x 60mm     (2) included with kit       rt/     n/a       rt/     60 x 60mm       0rt/     60 x 60mm				PDF					
<u>162942</u>		\$11.50	M12-1.75 Transport/ Base Plate				_			PDF			
<u>162943</u>		\$17.50	M8-1.25 Transport/ Base Plate							PDF			
<u>162944</u>		\$17.75	M10-1.5 Transport/ Base Plate					n/a				Die-cast zinc	PDF
<u>162945</u>		\$20.00	M12-1.75 Transport/ Base Plate				n/a	1		<u>PDF</u>			
<u>162946</u>	- <u>0</u> -	\$20.00	M14-2.0 Transport/ Base Plate							PDF			
<u>162947</u>		\$20.00	M16-2.0 Transport/ Base Plate							PDF			
<u>151201</u>		\$3.75	M8-1.25 x 40mm Swivel Foot Threaded Rod with 15mm ball	Requires Transport / Base Plate <u>162940</u> or <u>162943</u>	350 [772]*					PDF			
<u>151202</u>		\$4.00	M10-1.5 x 45mm Swivel Foot Threaded Rod with 15 mm ball	Requires Transport / Base Plate <u>162941</u> or <u>162944</u>	470 [1036]*	n/a			Zinc plated steel	PDF			
<u>162938</u>	33	\$6.50	M16-2.0 x 100mm Swivel Foot Threaded Rod with 15mm ball	Requires Transport / Base Plate <u>162947</u>	1450 [3197]					PDF			
Load rating of Example: Threaded rod Swivel base to Swivel foot as **Requires tag	Based on installation with Transport / Base Plate oad rating of a swivel foot assembly is based on the part with the lowest load rating, typically the threaded rod. xample: hreaded rod load rating = 210kg [463lb] wivel base load rating = 3000kg [6614lb] wivel foot assembly load rating = 210kg [463lb] Requires tapping Core Hole (M8-1.25 x 20mm deep) *T-Slot Nut also required.												

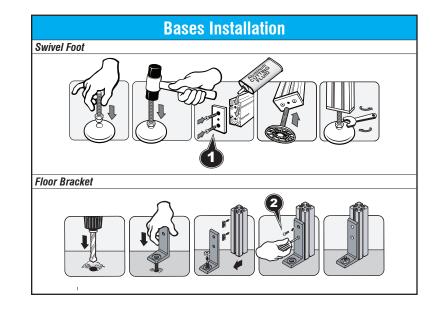
### **FATH T-Slotted Rail Accessories**

#### **Bases - Continued**

				30 Serie	es Bases -	continue	ed				
	Fits	Slot S		30 S/ 30x30	eries (mm) 30x60	60×60					
							Recommended (ADC Part				
Part Number	Part Image	Price	Diameter	Description	Fits	Load Rating kg [lb]	Core Hole Attachment	***T-Slot Attachment	Pack Quantity	Material	Drawing Link
<u>151068</u>		\$4.00	1.57 in			900 [1984]				Nylon	<u>PDF</u>
<u>151071</u>		\$9.50	[39.0 mm]			3000 [6614]					<u>PDF</u>
<u>151072</u>		\$17.00	_	Swivel Base With Anti-			n/a	n/a	1	Die-cast zinc	<u>PDF</u>
<u>151073</u>	300	\$17.00	3.11 in	Slip Plate							PDF
<u>151069</u>	•	\$6.00	[79.0 mm]		Any 15mm ball Threaded Rod	900 [1984]				Nylon	PDF
<u>151070</u>		\$6.00									<u>PDF</u>
<u>162933</u>	•	\$12.50	see 2D	Extended Swivel Base		1000 [2204]				Nylon	<u>PDF</u>
<u>162934</u>	•	\$27.00	drawing			3000 [6613]				Die-cast zinc	<u>PDF</u>
<u>162956</u>	• •	\$11.00	n/a	Floor Bracket	30 x 30mm, 30 x 60mm, 60 x 60mm	n/a		<u>161066</u>		Anodized aluminum	PDF
Load rating of Example: Threaded rod I Swivel base lo Swivel foot ass **Requires tap	Based on installation with Transport / Base Plate .oad rating of a swivel foot assembly is based on the part with the lowest load rating, typically the threaded rod. :xample: hreaded rod load rating = 210kg [463lb] wivel base load rating = 3000kg [6614lb] wivel foot assembly load rating = 210kg [463lb] *Requires tapping Core Hole (M8-1.25 x 20mm deep) **T-Slot Nut also required.										

### 1-800-633-0405 For the latest

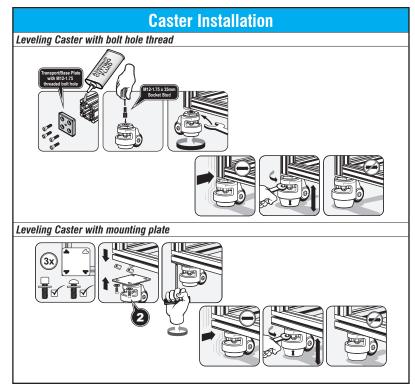
#### **Bases - Continued**



#### Casters

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

				<b>30 Series</b>	Casters						
	Fits	Slot Size	3	30 Series (mm 30x30 30x60							
							Screw Fastener t Number)				
Part Number	Part Image	Price	Description	Requires	Load Rating kg [lb]	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	, Material	Drawing Link	
<u>163010</u>		\$40.00		Transport / Base Plate with	250 [551]		n/a <u>161059</u>	- 1	Die-cast aluminum/ steel/nylon/ rubber	PDF	
<u>163011</u>		\$52.00		M12-1.75 threaded hole	500 [1102]					PDF	
<u>163012</u>		\$41.00	Leveling Caster		250 [551]	n/a				PDF	
<u>163013</u>		\$56.00		n/a	500 [1102]					PDF	
*T-Slot Nut also	-Slot Nut also required.										



#### Hinges

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



			30 Ser	ies Hinges								
	Fits Slot Size											
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Material	Drawing Link					
<u>151203</u>		\$6.25	Left-Hand Detachable Combination Hinge				PDF					
<u>151204</u>		\$6.50	Right-Hand Detachable Combination Hinge		1	Fiberglass reinforced plastic	PDF					
<u>151205</u>		\$6.50	Non-Detachable Combination Hinge				PDF					
<u>151206</u>		\$11.50	Non-Detachable Combination Hinge With Locking Lever	<u>161079</u>			PDF					
<u>151207</u>	a ar	\$16.50	Left-Hand Detachable Combination Hinge				PDF					
<u>151208</u>	EF E	\$16.50	Right-Hand Detachable Combination Hinge			Die-cast aluminum	PDF					
<u>151209</u>	3 4	\$16.50	Non-Detachable Combination Hinge				PDF					
*T-Slot Nut also requir	ed		1									

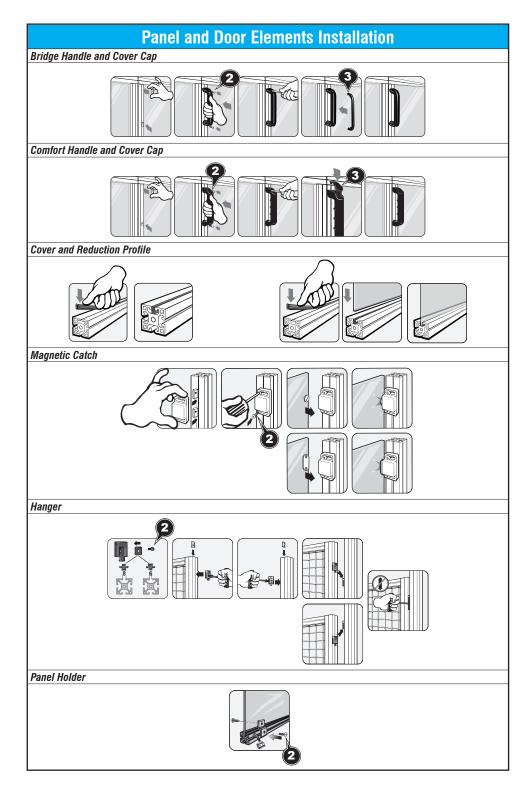
#### Panel and Door Elements

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



30 Series Panel and Door Elements         Slot Size         Slot Size         8       Slot Size         9       Slot Size												
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Pack Quantity	Material	Drawing Link					
<u>151146</u>		\$6.00	Dridge Llendle	<u>161061</u>			PDF					
<u>151147</u>		\$6.00	<ul> <li>Bridge Handle</li> </ul>		PDF							
<u>151148</u>		\$6.25	Cover Cap 3	n/a			PDF					
<u>151149</u>		\$6.50	Comfort Handle	<u>151183</u>		Fiberglass reinforced plastic	PDF					
<u>151085</u>		\$4.50	Comfort Handle	<u>161095</u>			PDF					
<u>151086</u>		\$4.00	Cover Cap 3	n/a			PDF					
<u>151157</u>		\$7.25	Ball Catch	<u>151162</u>			PDF					
<u>151158</u>	W LIN	\$14.50	Double Ball Catch	FHCS M4-0.7 x 10mm**	1	Brass	PDF					
<u>162963</u>		\$8.50	Magnetic Catch	<u>161062</u>		Nylon/steel	PDF					
<u>162912</u>	2	\$4.50	Develuielder	454000		Anodized	PDF					
<u>162917</u>	•	\$5.75	– Panel Holder	<u>161066</u>		aluminum	<u>PDF</u>					
<u>162977</u>		\$8.50	Hanger	<u>161059</u>		Die-cast zinc	PDF					
<u>151210</u>		\$150.00	Cover And Reduction Profile	n/a	25	Thermoplastic elastomer	PDF					

#### Panel and Door Elements - Continued

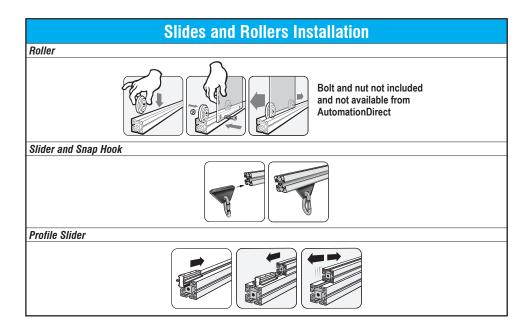


#### 1-800-633-0405 FATH<sup>®</sup> T-Slotted Rail Accessories

#### **Slides and Rollers**



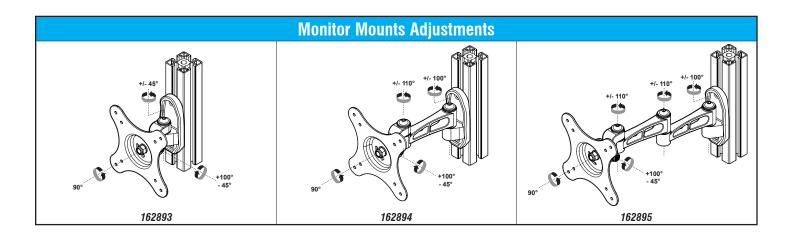
			30 Series Slid	es and Rollers	;							
	Slot Size       Fits     Slot Size       30 Series (mm)     Social       Social     Social       Social     Social       Social     Social       Social     Social       Social     Social       Social     Social											
Part Number	Part Image	Price	Description	Fits	Pack Quantity	Material	Drawing Link					
<u>148974</u>		\$9.50	Roller	All 30 Series		Nylon	PDF					
<u>151211</u>		\$4.50	Slider			Glass-filled nylon	<u>PDF</u>					
<u>151089</u>	Ì	\$4.50	Snap Hook	Slider <u>151211</u>	1	Zinc plated steel	PDF					
<u>162968</u>		\$7.50	Profile Slider Center Slot	All 30 Series		Polyoxymethylene (POM)	PDF					



#### **Monitor Mounts**



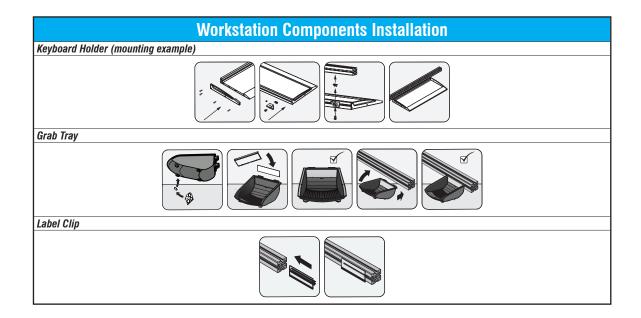
		3	O Series Monitor Mou	unts			
<ul> <li>Fits monitors with VESA mounting standard</li> <li>Durable steel construction</li> <li>Powder coat finish</li> <li>Mounting hardware included for several mounting locations</li> </ul>		Fits Slot Size 30 Series (mm) 50 50 50 50 50 50 50 50 50 50 50 50 50		VESA Mounting Standard of 100 x 100mm of 7 X 75mm of 4 X V4-4.7 Trivended Holes			
Part Number	Part Image	Price	Description	Load Rating kg [lb]	Pack Quantity	Installation Instructions Link	Drawing Link
<u>162893</u>		\$42.00				PDF	<u>PDF</u>
<u>162894</u>		\$50.00	Swivel Monitor Mount	15 [33.1]	1	PDF	<u>PDF</u>
<u>162895</u>		\$58.00				PDF	<u>PDF</u>



#### 1-800-633-0405 **FATH**<sup>®</sup> **T-Slotted Rail Accessories**

#### Workstation Components

		30	Series Workstation Comp	onents			
		Fits Slot Siz					
Part Number	Part Image	Price	Description	Load Rating kg [lb]	Pack Quantity	Material	Drawing Link
<u>162902</u>		\$185.00	Keyboard Holder			Aluminum/nylon	PDF
<u>162964</u>		\$9.00	Grab Tray	n/a	1	Nylon	<u>PDF</u>
<u>162965</u>		\$2.00	Label Clip			PVC	<u>PDF</u>

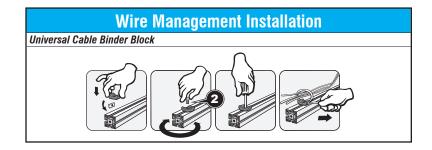


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#### Wire Management



		3	0 Series Wire Mana	gemen	t in the second s					
Fits Slot Size										
Part Number	Part Image	Price	ice Description Pack Quantity (ADC Part Number) Material							
<u>162982</u>		\$7.50	Universal Cable Binder Block	10	<u>161057</u>	Nylon	<u>PDF</u>			
<u>162983</u>		\$15.75	Cable Binder Block n/a Nylon							
*T-Slot Nut also required										



#### 1-800-633-0405 **FATH® T-Slotted Rail Accessories**

#### **Miscellaneous Accessories**



			30 Series Mis	cellaneou	s Accessories							
	Fits Slot Size											
Part Number	Part Image	Price	Description	Fits Profile	Recommended Screw Fastener *T-Slot Attachment (2) (ADC Part Number)	Pack Quantity	Material	Drawing Link				
<u>151212</u>		\$9.25	End Cap	30 x 30mm	- n/a	10	Glass-filled nylon	<u>PDF</u>				
<u>151170</u>		\$9.00	Stop Bumper		ıı/a	1	Rubber/zinc-plated steel	<u>PDF</u>				
<u>162973</u>		\$3.25	Sensor Mounting Block for 8mm diameter sensors	All 30 Series	BHCS M4-0.7 x 20mm			PDF				
<u>162974</u>		\$3.25	Sensor Mounting Block for 12mm diameter sensors		(not sold by ADC)		Nylon	PDF				
*T-Slot Nut also re	T-Slot Nut also required											

1-800-633-0405 **Aluminum T-Slotted Rail** frame™

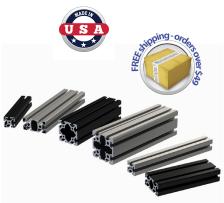
#### 40 Series Metric T-Slotted Aluminum Rail

SureFrame<sup>™</sup> 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 (metrie	C)			
Slot Size 8 Core Hole Ø 6.8 mm							improves	op Lock feature connection and vibration e
Part Number	Part Image	Price per cm	Profile Size	Weight Class	Weight Ibs/ft [kg/m]	Moment of Inertia Lx	Moment of Inertia Ly	Drawing Link
<u>40-4040C</u>		\$0.30			4 004 10 4471	0.324 in <sup>4</sup> [13.478 cm <sup>4</sup> ]	0.324 in <sup>4</sup> [13.478 cm <sup>4</sup> ]	<u>PDF</u>
<u>40-4040B</u>		\$0.40		\$0.40	1.624 [2.417]			<u>PDF</u>
<u>40-4040CL</u>		\$0.24	40 x 40mm -			0.219 in <sup>4</sup>	0.219 in <sup>4</sup>	<u>PDF</u>
<u>40-4040BL</u>	Left.	\$0.31		Light	1.170 [1.741]	[9.110 cm <sup>4</sup> ]	[9.110 cm <sup>4</sup> ]	PDF

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

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



Core Hole

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.

I-800-633-0405 For the latest prices, pie

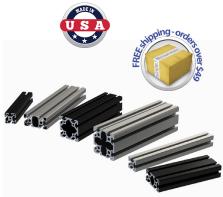
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- Minimum cut length: 15.24 cm
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- Corrosion and UV resistant



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												
	Slot Size	Core Hole Ø 6.8		Series (mm)	T-Slot Drop Lock feature improves connection strength and vibration resistance								
Part Number	Part Image	Price per cm	Profile Size	Weight Class	Weight Ibs/ft [kg/m]	Moment of Inertia Lx	Moment of Inertia Ly	Drawing Link					
<u>40-4080C</u>		\$0.54		Standard	2.925 [4.353]	.0621 in <sup>4</sup>	2.848 in <sup>4</sup>	<u>PDF</u>					
<u>40-4080B</u>	ALC A	\$0.69	40.00	Stanuaru	2.923 [4.333]	[25.834m <sup>4</sup> ]	[118.477 cm <sup>4</sup> ]	<u>PDF</u>					
<u>40-4080CL</u>		\$0.47	40 x 80mm	Light	2.482 [3.694]	0.495 in <sup>4</sup>	1.761 in <sup>4</sup>	<u>PDF</u>					
<u>40-4080BL</u>	E CAS	\$0.59		Light	2.402 [3.094]	[20.592 cm <sup>4</sup> ]	[73.258 cm <sup>4</sup> ]	PDF					
<u>40-8080C</u>	A A	\$0.78	90 v 90mm	Standard	4 004 10 0741	4.075 in <sup>4</sup>	4.075 in <sup>4</sup>	PDF					
<u>40-8080B</u>	EF E	\$0.95	80 x 80mm Standard 4.281 [6.371]		4.281 [6.371]	[6.371] [169.520 cm <sup>4</sup> ]		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. 1-800-633-0405



#### **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

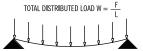
#### \*for reference only

#### Supported Loads



CONCENTRATED LOAD AT CENTER (simply supported)

UNIFORMLY DISTRIBUTED LOAD (simply supported)



WL<sup>4</sup> 5 84 MAX DEFLECTION =

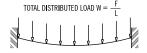
CONCENTRATED LOAD AT CENTER (between fixed supports)

F

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

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

UNIFORMLY DISTRIBUTED LOAD (between fixed supports)



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

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]				

CONCENTRATED LOAD AT CENTER (simply supported) ۰L



UNIFORMLY DISTRIBUTED LOAD (simply supported)

TOTAL DISTRIBUTED LOAD W = 
$$\frac{F}{L}$$
  
MAX DEFLECTION =  $\frac{WL^4}{8 EI}$ 

#### **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

Material: zinc plated steel												
	T-Slot Nuts Selection											
Part Image	Nut Type	Installation	Holds Position Without Screw	ESD Connection								
00	Double Economy T-Nut			No								
0	Economy T-Nut											
	Hammer Nut		No	Yes								
-	Slide-In Nut											
and the second	Roll-In Nut with Leaf Spring		Vez	No								
	Roll-In Nut with Spring Loaded Ball		Yes									



	40 Series T-Slot Nuts									
	Fits	Slot Size	40 Series (mm) 40x40 40x80 8							
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link				
<u>161126</u>	10	\$8.25	Hammer Nut			<u>PDF</u>				
<u>162996</u>	20	\$17.50	Roll-In Nut	10-32 UNF		<u>PDF</u>				
<u>162903</u>	C	\$9.50	Slide-In Nut		. 10	<u>PDF</u>				
<u>151097</u>		\$9.50	Hammer Nut			PDF				
<u>151098</u>		\$20.00	Roll-In Nut	1/4-20 UNC		PDF				
<u>162997</u>		\$17.50	Kuil-ili hut			PDF				

#### **T-Slot Nuts - Continued**

	40 Series T-Slot Nuts - Continued										
	Fits Slot Size										
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link					
<u>162904</u>		\$9.50	Slide-In Nut	1/4-20 UNC		<u>PDF</u>					
<u>151099</u>		\$20.00	Roll-In Nut	5/16-18 UNC		<u>PDF</u>					
<u>162998</u>	1012	\$17.50	Non-III Nut	J/10-10 0140		<u>PDF</u>					
<u>161129</u>	ae	\$8.00	Hammer Nut	M4-0.7		PDF					
<u>162999</u>	Sala a	\$17.50	Roll-In Nut	WI <del>T</del> 0.1	10	PDF					
<u>161130</u>	10	\$8.00	Hammer Nut			PDF					
<u>161120</u>	-Bi	\$16.75	Roll-In Nut	M5-0.8		PDF					
<u>163000</u>		\$17.50				PDF					
<u>151214</u>		\$9.00	Hammer Nut			<u>PDF</u>					
<u>162884</u>	à	\$9.75	Slide-In Nut	M6-1.0		PDF					
<u>151215</u>	3	\$19.00	Roll-In Nut	1.0		<u>PDF</u>					
<u>163001</u>	10 th	\$17.50	TON-IT PUL			PDF					

#### **T-Slot Nuts - Continued**

	40 Series T-Slot Nuts - Continued										
	Fits	Slot Size	40 Series (mm) 40x40 40x80 8								
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link					
<u>151213</u>	0	\$6.00	Economy T-Nut		10	PDF					
<u>148802</u>	0 0	\$5.50	Double Economy T-Nut		4	PDF					
<u>162885</u>	8	\$9.75	Slide-In Nut	M8-1.25		PDF					
<u>151216</u>	-10-	\$19.00	Roll-In Nut		10	PDF					
<u>163002</u>		\$17.50	Non-ill Nut			PDF					

#### 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					
<u>162994</u>	B	\$8.00	8-32 UNF x 3/8in	Button head socket cap screw			<u>PDF</u>					
<u>161073</u>	Oceaning	\$7.75	8-32 UNF x 1/2in	Flat head socket cap screw			<u>PDF</u>					
<u>162993</u>	(Anno	\$7.50	10-32 UNF x 3/8in	Button head socket cap screw			<u>PDF</u>					
<u>162995</u>		\$7.75		Socket head cap screw			<u>PDF</u>					
<u>161046</u>		\$4.75	10-32 UNF x 1/2in	Bin Button head socket cap screw	Flat black		<u>PDF</u>					
<u>161047</u>		\$5.00	10-32 UNF x 5/8in			10	<u>PDF</u>					
<u>161048</u>		\$5.75	10-32 UNF x 3/4in		10-32 UNF x 3/4in		<u>PDF</u>					
<u>161074</u>	O	\$6.25		Flat head socket cap screw			<u>PDF</u>					
<u>151040</u>	0	\$4.25	1/4-20 UNC x 1/2in	Button head socket cap screw			PDF					
<u>151041</u>	Ø	\$5.25		Flanged button head socket cap screw	Gloss black		PDF					
<u>161049</u>	0m	\$4.75	1/4-20 UNC x 9/16in	Button head socket cap screw			PDF					
<u>161075</u>	Om	\$6.25		Flat head socket cap screw	Flat black		PDF					
<u>161050</u>		\$4.75	1/4-20 UNC x 5/8in	Button head socket cap screw			PDF					
<u>161087</u>		\$4.00		Socket head cap screw			PDF					

#### **Fasteners - Continued**

			40 Series Fast	eners - Continued			
	Fits	Slot Size	40 Series ( 40x40 40				
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link
<u>161051</u>	(hange	\$4.75	1/4-20 UNC x 3/4in				PDF
<u>161052</u>		\$5.25	1/4-20 UNC x 1in	Button head socket cap screw	Flat black		<u>PDF</u>
<u>151100</u>	O <sub>5</sub>	\$5.25	5/16-18 UNC x 5/8in				PDF
<u>151101</u>	Q	\$6.00	5/16-18 UNC x 11/16in	Flanged button head socket cap screw	Gloss black		<u>PDF</u>
<u>161053</u>	0	\$6.00	5/16-18 UNC x 1/2in				<u>PDF</u>
<u>161054</u>		\$6.50	5/16-18 UNC x 3/4in	Button head socket cap screw	Flat black	10	PDF
<u>161055</u>	(hand)	\$7.50	5/16-18 UNC x 1in				PDF
<u>161088</u>	0	\$2.25	M4-0.7 x 8mm	Socket head cap screw			PDF
<u>161089</u>		\$2.50	- M4-0.7 x 10mm				PDF
<u>161056</u>	2	\$1.00		Button head socket cap screw			PDF
<u>161076</u>	( ) State of the s	\$1.50	M4-0.7 x 12mm	Flat head socket cap screw			<u>PDF</u>
<u>161057</u>	Ø.	\$1.25	- M5-0.8 x 10mm	Button head socket cap screw	Bright zinc		PDF
<u>161090</u>	<b>I</b>	\$2.50		Socket head cap screw			<u>PDF</u>
<u>161077</u>	Image	\$1.75	- M5-0.8 x 12mm	Flat head socket cap screw			PDF
<u>161091</u>	e la	\$2.75		Socket head cap screw			PDF

#### **Fasteners - Continued**

	40 Series Fasteners - Continued										
	Fits	Slot Size	40 Series								
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link				
<u>161058</u>	er	\$1.75	M5-0.8 x 12mm	Button head socket cap screw			<u>PDF</u>				
<u>161092</u>		\$2.75	M6-1.0 x 10mm	Socket head cap screw			<u>PDF</u>				
<u>161078</u>	<u>O</u>	\$2.25		Flat head socket cap screw			<u>PDF</u>				
<u>161059</u>	2	\$2.00	M6-1.0 x 12mm	Button head socket cap screw			<u>PDF</u>				
<u>161093</u>	<b>N</b>	\$2.75		Socket head cap screw		10	<u>PDF</u>				
<u>161079</u>	De	\$2.50		Flat head socket cap screw	-		<u>PDF</u>				
<u>161060</u>	E	\$2.25	M6-1.0 x 14mm	Button head socket cap screw			<u>PDF</u>				
<u>161094</u>	<u>I</u>	\$3.00		Socket head cap screw	Bright zinc		<u>PDF</u>				
<u>161080</u>	<b>O</b>	\$2.50		Flat head socket cap screw			<u>PDF</u>				
<u>161061</u>	(Comparent of the second of th	\$2.50	M6-1.0 x 16mm	Button head socket cap screw			<u>PDF</u>				
<u>161095</u>	Ø.	\$3.00		Socket head cap screw			<u>PDF</u>				
<u>161062</u>		\$3.00	M6 1 0 40	Button head socket cap screw			<u>PDF</u>				
<u>161096</u>	0	\$3.25	- M6-1.0 x 18mm	Socket head cap screw			PDF				
<u>161081</u>		\$2.75	MC 4.0 00	Flat head socket cap screw			PDF				
<u>161063</u>		\$3.00	- M6-1.0 x 20mm	Button head socket cap screw			PDF				

#### **Fasteners - Continued**

	40 Series Fasteners - Continued											
	Fits	Slot Size	40 Series									
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link					
<u>161097</u>	O and	\$3.25	M6-1.0 x 20mm	Socket head cap screw			<u>PDF</u>					
<u>161064</u>	8	\$3.25	M6-1.0 x 25mm	Button head socket cap screw			<u>PDF</u>					
<u>161082</u>	O	\$4.75		Flat head socket cap screw			PDF					
<u>161065</u>	æ,	\$4.25	M8-1.25 x 12mm	Button head socket cap screw		10	PDF					
<u>161098</u>	e)	\$4.75		Socket head cap screw			<u>PDF</u>					
<u>161066</u>	E	\$4.50		Button head socket cap screw	Bright zinc		PDF					
<u>161083</u>	<u>e</u>	\$5.00	M8-1.25 x 14mm	Flat head socket cap screw			<u>PDF</u>					
<u>161099</u>	Ø.	\$5.00		Socket head cap screw			PDF					
<u>161084</u>	Ø.	\$5.50		Flat head socket cap screw			PDF					
<u>161100</u>	C. South	\$5.50		Socket head cap screw			<u>PDF</u>					
<u>161067</u>	See.	\$4.75	M8-1.25 x 16mm	Dutter band and a factor			<u>PDF</u>					
<u>151183</u>	6	\$4.75		Button head socket cap screw			PDF					
<u>151184</u>	0.	\$5.50		Flanged button head socket cap screw	- Gloss black		PDF					
<u>161085</u>	. Cam	\$5.50	N0.4.05 40	Flat head socket cap screw	Ditti		PDF					
<u>161068</u>	e la	\$5.25	– M8-1.25 x 18mm	Button head socket cap screw	Bright zinc		PDF					

#### **Fasteners - Continued**

40 Series Fasteners - Continued												
	Fits Slot Size											
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link					
<u>161101</u>	0	\$5.50	M8-1.25 x 18mm	Socket head cap screw		10	PDF					
<u>151241</u>	-	\$4.50	M8-1.25 x 20mm	Button head socket cap screw			PDF					
<u>161102</u>	0	\$5.75	M8-1.25 x 20mm	Socket head cap screw			PDF					
<u>161086</u>		\$7.00	- M8-1.25 x 25mm	Flat head socket cap screw	Bright zinc		PDF					
<u>161069</u>		\$5.25	- M8-1.25 X 25mm				PDF					
<u>161070</u>		\$8.00	M8-1.25 x 40mm	Button head socket cap screw			PDF					
<u>118287</u>	9	\$2.50	M8-1.25 x 25mm	Hammer head screw and flange nut		1	PDF					
		40 S	eries Self For	ming / Tapping Screw	S							

40 S. Fits Core			40 Series		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	
<u>161105</u>	0	\$17.00	7.05.00	Self-Tapping Screw Button head socket cap		10	PDF	
<u>161106</u>	8	\$9.25	7 x 25mm	Self-Tapping Screw Flanged button head socket cap T-40 Torx	Bright zinc		PDF	
<u>161107</u>	0	\$17.00	7 x 40mm	Self-Tapping Screw Button head socket cap			PDF	

#### Self Forming / Tapping Screw Installation

1.1.1

#### 1-800-633-0405 For the latest **FATH**<sup>®</sup> **T-Slotted Rail Accessories**

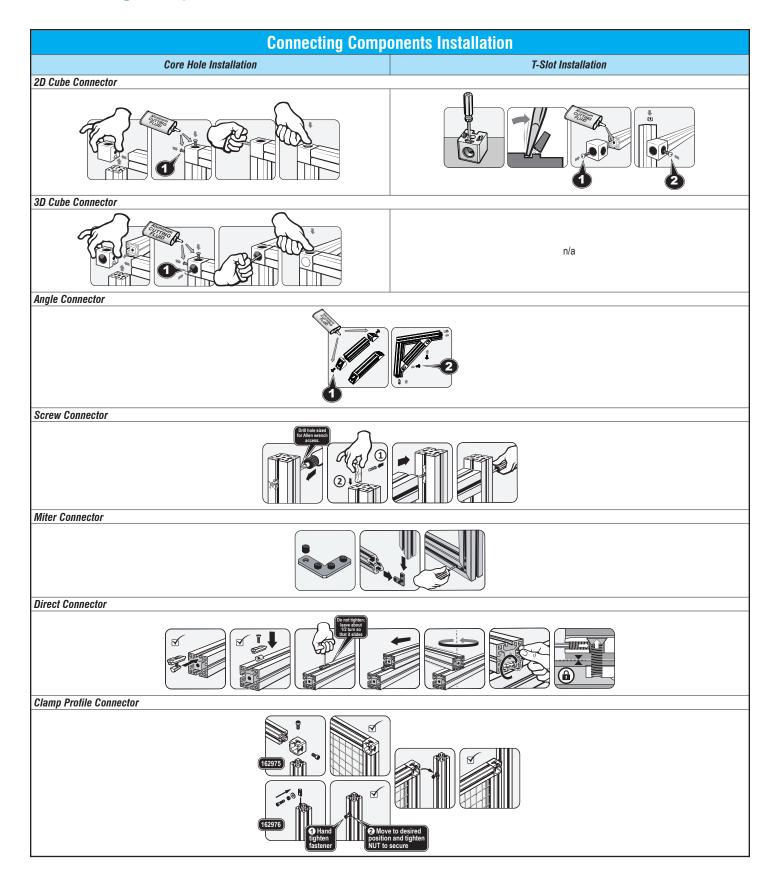
#### **Connecting Components**

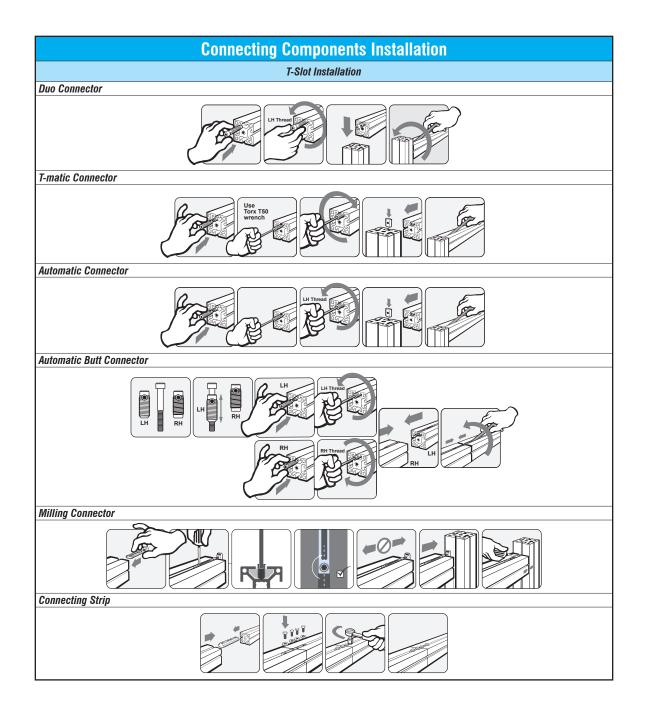
- Connects two or three T-slot rails together
- Recommended ADC Fastener based on part feature, slot Depth and core hole
- Material: varies by part

			40 Series (	Connectin	g Compon	ents			
	Fits	Slot Size	2	$40 \text{ Series (mm)}$ $40 \times 40 \times 80$ $80 \times 80$					
						Recommended Screw Fastener (ADC Part Number)			
Part Number	Part Image	Price	Description	Fits Profile	Material	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	Drawing Link
<u>148958</u>	00	\$10.00	2d Cube			<u>161105</u>	<u>161085</u>	1	PDF
<u>166369</u>		\$12.00	Connector	40 x 40mm	Die-cast aluminum				PDF
<u>148959</u>	00	\$11.50	3d Cube				<u>n/a</u>		PDF
<u>166370</u>		\$13.00	Connector						PDF
<u>151217</u>	101	\$13.50					161067		<u>PDF</u>
<u>166371</u>	101	\$16.00					<u>161067</u>		<u>PDF</u>
<u>151218</u>	1.7.1	\$13.50	Angle Connector	40 00.0			404000		PDF
<u>166372</u>	10101	\$16.50		40 x 80mm			<u>161068</u>		<u>PDF</u>
*T-Slot Nut 3 also	required.		·		·	·		·	

### 1-800-633-0405 For the latest

		40 Se	ries Conne	cting Com	ponents -	Continue			
	Fits	Slot Size		40 Series (mm 40x40 40x80					
Part Number	Part Image	Price	Description	Fits Profile	Material	Recommen Fastener (ADC Core Hole Attachment	nded Screw 2 Part Number) *T-Slot Attachment 2	Pack Quantity	Drawing Link
<u>151102</u>		\$23.50	Duo Connector		Steel			10	PDF
<u>151103</u>		\$96.00	T-Matic Connector		Zinc plated steel		n/a		PDF
<u>151104</u>		\$59.00	Automatic Connector		Steel	n/a			PDF
<u>151105</u>	6	\$9.50	Automatic Butt Connector						PDF
<u>151106</u>	A al and	\$8.50	Milling Connector		Zinc plated				PDF
<u>151109</u>	0 0	\$15.50	Connecting Strip	All 40 Series	steel				PDF
<u>162891</u>		\$13.00	Direct Connector		Steel		Fasteners included		PDF
<u>162961</u>	10 10 10 10 10 10 10 10 10 10 10 10 10 1	\$11.50	Miter Connector		Steel	n/a	M8-1.25 x 8mm set screw (4) included		PDF
<u>162975</u>	71	\$21.00	Clamp Profile Connector works with <u>162976</u>		Die-cast zinc	161105 (2) included with kit	n/a		PDF
<u>162976</u>	1 B	\$5.50	Mounting Element works with <u>162975</u>		Steel	n/a	Fasteners included	-	PDF
<u>163009</u>	0	\$13.25	Screw Connector		Zinc plated steel	Designer's choice	n/a	10	<u>PDF</u>
*T-Slot Nut also requ	iired.		I		I		I	I	





#### 1-800-633-0405 For the latest **FATH**<sup>®</sup> **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											
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Drawing Link						
<u>148850</u>		\$5.75				PDF						
<u>166373</u>	•••	\$7.00		<u>151183</u> or <u>151184</u>	1	PDF						
<u>162986</u>	222	\$8.00				PDF						
<u>166374</u>	2.25	\$11.00	Straight Flat Plate			PDF						
<u>148856</u>	2223	\$12.00				PDF						
<u>166375</u>	Care and	\$14.00				PDF						
<u>148853</u>		\$11.50	- Square Flat Plate			PDF						
<u>166376</u>		\$14.00	Square Flat Plate			PDF						
<u>148858</u>		\$12.00	Rectangular Flat Plate			PDF						
<u>166377</u>		\$15.00				PDF						
<u>151219</u>		\$14.50				PDF						
<u>166378</u>	••••	\$17.00	- Flat Plate			PDF						
*T-Slot Nut also requ	uired.		1	11		1						

#### **Joining Plates - Continued**

	40 Series Joining Plates - Cont'd										
	Fits Slot Size										
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Drawing Link					
<u>151220</u>	• • •	\$16.50	T Chanad Elat Diata	<u>151183</u> or <u>151184</u>	1	PDF					
<u>166379</u>		\$21.00	T-Shaped Flat Plate			PDF					
<u>151221</u>		\$27.50	T-Shaped Flat Plate			PDF					
<u>166380</u>		\$34.00	r-onaped Flat Flate			<u>PDF</u>					
*T-Slot Nut also requir	ed.										

#### **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



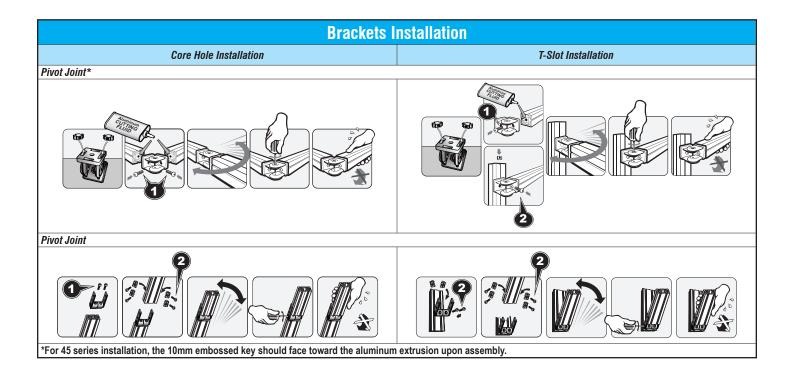
40 Series Brackets       Fits Slot Size       Image: Slot Size     Image: Slot Size       Image: Slot Size											
Part Number	Part Image	Price	Description	Recommended (ADC Par Core Hole Attachment	Screw Fastener t Number) *T-Slot Attachment 2	Pack Quantity	Material	Drawing Linl			
<u>151125</u>		\$7.75			<u>151241</u> <u>161068</u>	1	Die-cast	PDF			
<u>166322</u>		\$9.00	Angle Bracket				aluminum	PDF			
<u>151126</u>	RASE	\$11.50					Die-cast zinc	PDF			
<u>166323</u>		\$13.00						PDF			
<u>151222</u>	-	\$4.25					Anodized aluminum	PDF			
<u>166381</u>	1	\$5.00	<ul> <li>Inside Corner Bracket</li> </ul>	n/a				PDF			
<u>151223</u>	· · ·	\$6.25	Wide Inside Corner					PDF			
<u>166382</u>		\$7.00	Bracket	<u>1511</u>	<u>151183</u> or <u>151184</u>			PDF			
<u>151224</u>	in a c	\$6.25	Tall Inside Corner					PDF			
<u>166383</u>		\$7.00	Bracket					<u>PDF</u>			
<u>151225</u>		\$11.50	<ul> <li>Inside Corner Bracket</li> </ul>					PDF			
<u>166384</u>		\$14.00					PDF				

#### **Brackets - Continued**

40 Series Brackets - Cont'd										
	Fits	Slot Size	40 Ser 40x40	ries (mm) 40x80						
					Screw Fastener t Number)					
Part Number	Part Image	Price	Description	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	Material	Drawing Link		
<u>151226</u>	3	\$3.75	Gusseted Inside					PDF		
<u>166385</u>	0	\$4.00	Corner Bracket					PDF		
<u>151227</u>	CC	\$9.00	Tall Gusseted Inside		<u>151183</u> or <u>151184</u>	1		PDF		
<u>166386</u>	00	\$11.00	Corner Bracket					PDF		
<u>148911</u>		\$6.75	Wide Gusseted Inside	n/a				<u>PDF</u>		
<u>166387</u>		\$8.00	Corner Bracket					<u>PDF</u>		
<u>151228</u>		\$14.50	Gusseted Inside					PDF		
<u>166388</u>		\$17.00	Corner Bracket					PDF		
<u>151229</u>	Q.	\$29.50	- Pivot Joint					PDF		
<u>166389</u>		\$36.00		<u>161105</u>	<u>161066</u>		Die-cast zinc	<u>PDF</u>		
<u>151230</u>		\$39.50	Pivot Joint With		101000		Die-cast zinc	PDF		
<u>166390</u>	DI Con	\$47.00	Locking Handle					<u>PDF</u>		
*T-Slot Nut also re	equired.									

#### **Brackets - Continued**

	40 Series Brackets - Continued											
	Fits Slot Size											
Part Number F				(ADC Part		_	y Material					
	Part Image	Price	Description	Core Hole Attachment	*T-Slot Attachment	Pack Quantity		Drawing Link				
<u>163015</u>	1 × 1	\$31.25	1-Slot Pivot Joint	<u>161105</u>	<u>161068</u>	1	Die-cast zinc/die-cast aluminum/ nylon	PDF				
<u>163018</u>		\$41.00	2-Slot Pivot Joint					PDF				
*T-Slot Nut also re	equired.		<u>.                                    </u>	<u>.                                    </u>	<u>.</u>		·	<u>.</u>				



For the latest prices, please check AutomationDirect.com.

# 1-800-633-0405 **FATH®** T-Slotted Rail Accessories

#### **Bases**

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





	Fits	Slot Size		ſ							
		8			40 Series (mm 40x40 40x80						
Part Number	Part Image	Price	Diameter	Description	Fits	Load Rating kg [lb]	Recommended (ADC Part Core Hole Attachment		Pack Quantity	Material	Drawing Link
<u>151232</u>	0 48 0	\$16.50		M12-1.75	40 x 80mm		1 <u>61105</u> (2) included with kit				PDF
<u>151233</u>	0 n 0	\$23.00		Transport/Base Plate	80 x 80mm		<u>161105</u> (4) included with kit				<u>PDF</u>
<u>162948</u>	e <sup>00</sup>	\$20.00		M16-2.0	40 x 80mm	n/a	(2) included with kit			Die-cast zinc	<u>PDF</u>
<u>162949</u>		\$25.00		Transport/Base Plate			<u>161105</u>				<u>PDF</u>
<u>162950</u>		\$25.00	n/a	M20-2.5 Transport/Base Plate	80 x 80mm		(4) included with kit	n/a	1		PDF
<u>151231</u>	CC -	\$4.50	-	M12-1.75 x 66mm Swivel Foot Threaded Rod with 15mm ball	Transport/Base Plate <u>151232</u> or <u>151233</u>	770 [1698]**					PDF
<u>162938</u>	14	\$6.50		M16-2.0 x 100mm Swivel Foot Threaded Rod with 15mm ball	Transport/Base Plate <u>162948</u> or <u>162949</u>	1450 [3197]				Zinc plated steel	PDF
<u>162939</u> 3ਵ	i jama	\$11.00		M20-2.5 x 150mm Swivel Foot Threaded Rod with 15mm ball	Transport/Base Plate <u>162950</u>	2430 [5357]	n/a				PDF
<u>151068</u>	6	\$4.00	1.57 in	Swivel Base	Any 15mm ball	900 [1984]				Nylon	PDF
<u>151071</u>		\$9.50	[39.0 mm]	With Anti-Slip Plate	Threaded Rod	3000 [6614]	-			Die-cast zinc	PDF

Threaded rod load rating = 210kg [463lb] Swivel base load rating = 3000kg [6614lb] Swivel foot assembly load rating = 210kg [463lb]

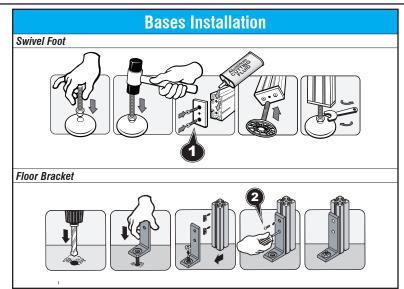
#### **Bases - Continued**

	40 Series Bases - Continued         Fits Slot Size         Fits Slot Size         80       80         Becommended Screw Fastener												
Part Number	Part Image	Price	Diameter	Description	Fits	Load Rating kg [lb]	Recommended (ADC Part Core Hole Attachment		Pack Quantity	Material	Drawing Link		
<u>151069</u>	•	\$6.00	3.11 in								PDF		
<u>151070</u>		\$6.00	[79.0 mm]	Swivel Base With Anti-Slip Plate	Any 15mm ball	900 [1984]				Nylon	PDF		
<u>151255</u>		\$10.00				900 [1984]	-				PDF		
<u>151256</u>		\$10.00	3.90 in		Threaded Rod	300 [1304]		n/a			PDF		
<u>151257</u>	•	\$24.00	[99.0 mm]			3500 [7716]	]		1	Die-cast	PDF		
<u>151258</u>		\$24.00								zinc	PDF		
<u>162933</u>	••••	\$12.50	See 2D	Extended Swivel	Any 15mm ball	1000 [2204]		2/2		Nylon	PDF		
<u>162934</u>	•	\$27.00	drawing	Extended Swivel Base	Threaded Rod	3000 [6613]		n/a		Die-cast zinc	PDF		
Example: Threaded rod I Swivel base lo	o required. a swivel foot asso oad rating = 210k ad rating = 3000k sembly load rating	g [463lb] g [6614lb	]	e part with the lowest	load rating, typi	cally the threa	aded rod.						

# **FATH T-Slotted Rail Accessories**

#### **Bases - Continued**

	40 Series Bases - Continued												
	Fits	Slot S			Series (mm) 40 40x80	50×80							
Part Number	Part Image	Price	Diameter	Description	Fits	Load Rating kg [lb]		Screw Fastener t Number) *T-Slot Attachment 2	Pack Quantity	Material	Drawing Link		
<u>162889</u>		\$24.50			40 x 40mm,						PDF		
<u>166391</u>		\$33.00		Foot Console	40 x 80mm			<u>161068</u>			<u>PDF</u>		
<u>162890</u>	Л	\$25.50	n/a		40 x 80mm, 80 x 80mm	n/a	n/a		1	Die-cast aluminum	PDF		
<u>166392</u>	Д	\$35.00				40 x 80mm, 80 x 80mm	40 x 80mm, 80 x 80mm						PDF
<u>162960</u>		\$47.00		Support Bracket				M8-1.25 x 30mm (not sold by ADC)			<u>PDF</u>		
<u>162958</u>	• •	\$11.50		Floor Bracket	All 40 Series			<u>161068</u>		Anodized aluminum	<u>PDF</u>		
*T-Slot Nut also	o required.												

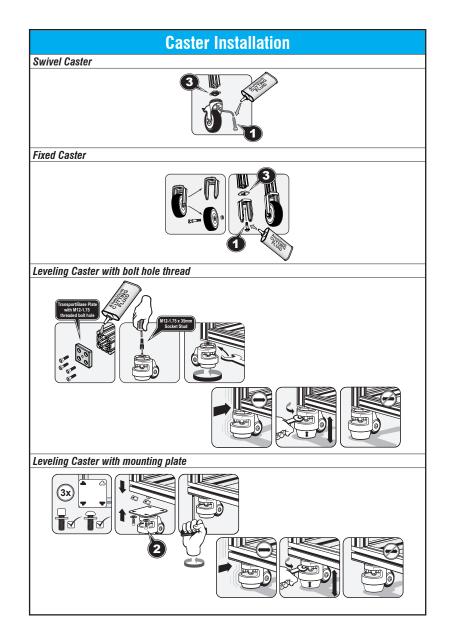


#### Casters

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

Part NumberPart ImagePriceDescriptionRequires151134Image\$47.00Swivel Caster (requires Swivel Caster Adapter Plate 151136)n/a151135Image\$40.50Fixed Caster (requires Fixed Fixed Caster Adapter Plate 161040)n/a151136Image\$4.50Image Swivel Caster Adapter Plate Fixed Fixed Caster Adapter Plate 161040Requires Swivel Caster Adapter Plate161040Image\$3.50Image Sized Fixed Caster Adapter PlateRequires Fixed Caster 151135151137Image\$62.00Swivel Caster Adapter Platen/a	<b>Load Rating</b> (122 [269]		screw Fastener t Number) *T-Slot Attachment 2	Pack Quantity	Thermoplastic polyurethane/ nylon/steel Steel	Drawing Link PDF PDF
Part NumberPart IndigePriceDescriptionRequires151134Image: Structure of the stru	kg [lb]	(ADC Par Core Hole Attachment 161107	rt Number) *T-Slot Attachment 2		Thermoplastic polyurethane/ nylon/steel Steel	<u>PDF</u>
151134Image: Symbol with a state of the symbol wit			n/a		polyurethane/ nylon/steel Steel	PDF
151135Image: Signal systemFixed Caster (requires Fixed Fixed Caster Adapter Plate 161040)Requires Swivel Caster Adapter Plate 161040)151136Image: Signal systemSignal systemSignal systemRequires Swivel Caster Adapter Plate Plate161040Image: Signal systemSignal systemSignal systemRequires Swivel Caster Adapter Plate161040Image: Signal systemSignal systemSignal systemRequires Fixed Caster Adapter Plate161040Image: Signal systemSignal systemSignal systemRequires Fixed Caster Adapter Plate151137Image: Signal systemSignal systemSwivel CasterAdapter PlateImage: Signal systemSignal systemSwivel CasterNa151137Image: Signal systemSignal systemSwivel CasterImage: Signal systemSignal systemSwivel CasterNaImage: Signal systemSignal systemSwivel CasterImage: Signal systemSignal systemSignal systemImage: Signal systemSignal systemSignal		<u>161106</u>	n/a		Steel	
151136Second StateSecond StateSecond StateSecond StateSecond StateSecond StateCaster 151134)161040Second StateSasoSasoSecond StateRequires Fixed Caster 151135Requires Fixed Caster 151135151137Second StateSecond StateSwivel CasterNameName151137Second StateSecond StateSwivel CasterName151137Second StateSecond StateSwivel CasterNa151137Second StateSecond StateSwivel CasterNa	n/a					<u>PDF</u>
161040     \$3.50     Fixed Fixed Caster Adapter Plate     Requise rised Caster 151135       151137     \$62.00     Swivel Caster	11/a					
n/a		1		_	Die-cast zinc	PDF
	122 [269]		<u>161053</u>		Thermoplastic polyurethane/	PDF
151138         \$49.00         Fixed Caster	122 [269]			1	nylon/steel	PDF
163010     \$40.00       Transport / Base Plate with	250 [551]	n/a	n/a			PDF
163011     \$52.00     M12-1.75       Leveling Caster     Leveling Caster	500 [1102]		11/a		Die-cast aluminum/	PDF
<b>163012</b> \$41.00	250 [551]		161060		steel/nylon/ rubber	PDF
163013 \$56.00 n/a	500 [1102]		<u>161060</u>			PDF

#### **Casters - Continued**



#### Hinges

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



	40 Series Hinges											
	Fits	Slot Size	40 Series 40x40 40									
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Material	Drawing Link					
<u>151139</u>		\$7.25	Left-Hand Detachable Combination Hinge				<u>PDF</u>					
<u>151140</u>		\$7.25	Right-Hand Detachable Combination Hinge			Fiberglass reinforced plastic	<u>PDF</u>					
<u>151141</u>		\$7.25	Non-Detachable Combination Hinge		1		<u>PDF</u>					
<u>151142</u>		\$12.50	Non-Detachable Combination Hinge With Locking Lever	<u>161080</u>			<u>PDF</u>					
<u>151143</u>	a a a	\$18.00	Left-Hand Detachable Combination Hinge				<u>PDF</u>					
<u>151144</u>	3 4	\$18.00	Right-Hand Detachable Combination Hinge			Die-cast aluminum	<u>PDF</u>					
<u>151145</u>	a a a	\$18.00	Non-Detachable Combination Hinge				<u>PDF</u>					
*T-Slot Nut also require	ed					1						

#### Panel and Door Elements

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



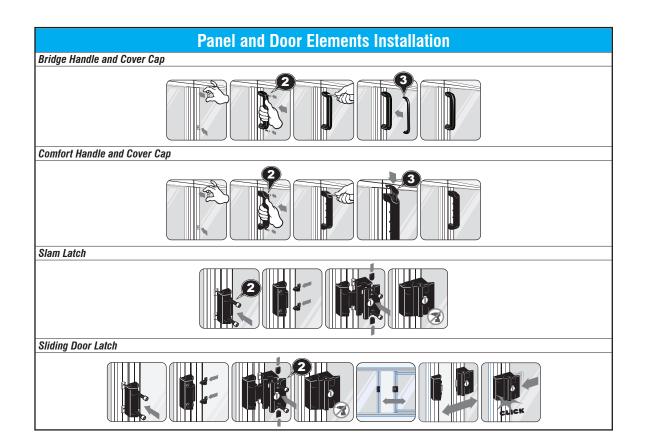
		_4	0 Series Panel	and Door	Elements			
	Fits	Slot Size	40 Series					
Part Number	Part Image	Price	Description	Recommended (ADC Part Core Hole Attachment		Pack Quantity	Material	Drawing Link
<u>151146</u>		\$6.00			<u>161063</u>			PDF
<u>151147</u>	$\checkmark$	\$6.00	<ul> <li>Bridge Handle</li> </ul>		<u>161067</u>			PDF
<u>151148</u>	$\checkmark$	\$6.25	Cover Cap 3 n/a				PDF	
<u>151149</u>		\$6.50	Comfort Handle		<u>161068</u>		Fiberglass	PDF
<u>151150</u>	~~~	\$2.25	Cover Cap 3		n/a		reinforced plastic	PDF
<u>151151</u>		\$12.50	Comfort Handle	n/a	<u>161054</u>			PDF
<u>151152</u>	~~~	\$3.00	Cover Cap 3		n/a	1		PDF
<u>151153</u>		\$33.50	Machine Handle		<u>161099</u>			PDF
<u>151154</u>		\$47.00	Compact Slam Latch					<u>PDF</u>
<u>151155</u>		\$58.00	Compact Sliding Door Latch		<u>161061</u>		Die-cast aluminum	PDF
<u>162971</u>		\$33.00	Sliding Door Guide	Fasteners included	n/a		Die-cast aluminum/nylon	PDF
<u>151156</u>	60	\$37.00	Emergency Opener	n/a	<u>161060</u>		Fiberglass reinforced plastic	PDF
*T-Slot Nut also requ	ired							

# **FATH T-Slotted Rail Accessories**

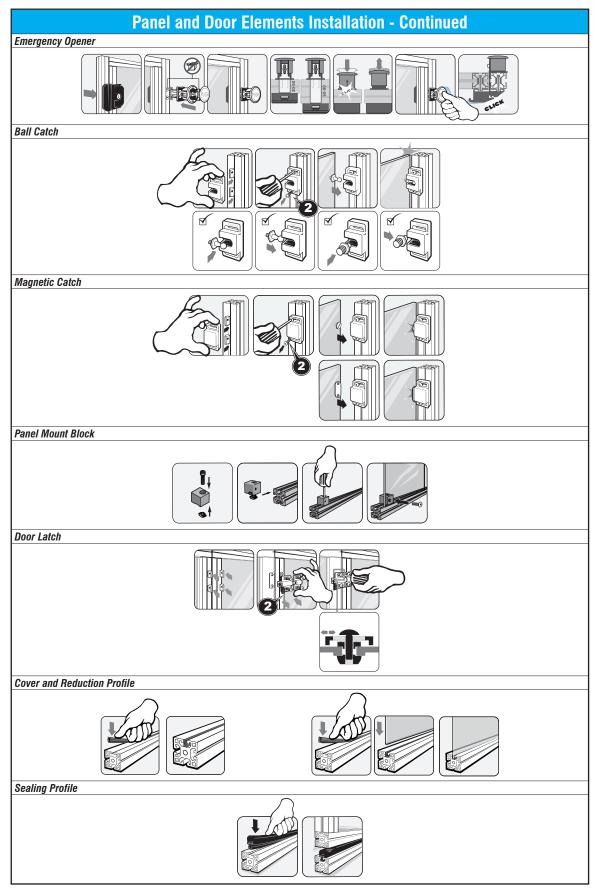
40 Series Panel and Door Elements - Continued											
	Fits	Slot Size	40 Series								
Part Number	Part Image	Price	Description	Recommended (ADC Part Core Hole Attachment	Screw Fastener t Number) *T-Slot Attachment	Pack Quantity	Material	Drawing Link			
<u>151157</u>		\$7.25	Ball Catch		<u>161063</u>		Fiberglass reinforced plastic	PDF			
<u>151158</u>	11 1 1 M	\$14.50	Double Ball Catch		<u>161076</u>		Brass	PDF			
<u>151159</u>		\$23.00	Door Latch	_	<u>161061</u>		Die-cast zinc	PDF			
<u>162963</u>		\$8.50	Magnetic Catch		<u>161063</u>		Nylon/steel	PDF			
<u>162913</u>	3	\$5.00	- Panel Holder	n/a	161068	1	Anodized aluminum	PDF			
<u>162918</u>	•	\$6.00						PDF			
<u>162924</u>	0 .	\$5.75	- Panel Mount Block		Fasteners		Lacquered aluminum	PDF			
<u>162925</u>		\$5.75		_	included		Powder-coated aluminum	PDF			
<u>162928</u>		\$525.00	Sealing Profile		n/a		Nitrile rubber	PDF			
<u>162977</u>	þþ	\$8.50	Hanger	_	<u>161059</u>	1	Die-cast zinc	PDF			
<u>162978</u>		\$3.00	- Panel Uni-Block		n/a	10	Nylon	PDF			
<u>162979</u>		\$3.00			n/a	10	туют	PDF			
*T-Slot Nut also req	uired										

# **FATH T-Slotted Rail Accessories**

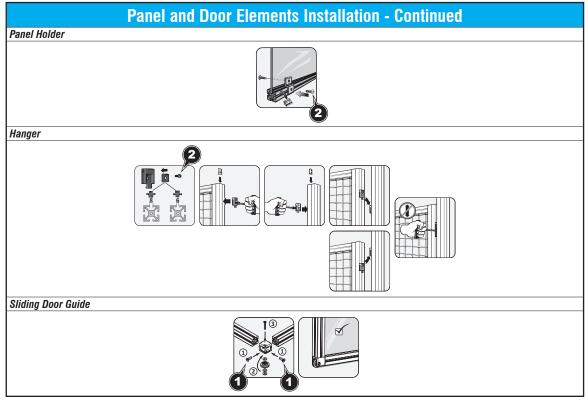
	40 Series Panel and Door Elements - Continued											
	Fits Slot Size											
Part Number	Part Image	Price	Description		Screw Fastener t Number) *T-Slot Attachment 2	Pack Quantity	Material	Drawing Link				
<u>151160</u>		\$58.00	Sealing Strip			2	PVC/TPE	PDF				
<u>151163</u>		\$25.00	0			1	Nitrile rubber	<u>PDF</u>				
<u>151165</u>		\$91.00	- Cover Profile		n/a	25	Debreander	PDF				
<u>151164</u>		\$115.00	Cover And Reduction Profile			25	Polypropylene	PDF				
*T-Slot Nut also req	uired				1		1					



### 1-800-633-0405 FATH<sup>®</sup> T-Slotted Rail Accessories



# **FATH T-Slotted Rail Accessories**



Adjust side screws for optimum sliding

a2

performance

### 1-800-633-0405 **FATH<sup>®</sup> 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"

	on of the profile is					-	and Rolle	rs								
	Fits	Slot S	ize		40 52	Series (mm				Contraction of the second seco						
Part Number	Part Image	Price	Description	Fits	Pack Quantity	Static (Co)	Reverse Static	ad Ratings Roll Moment	Yaw Moment	Material	Drawing Link					
<u>166393</u>	No. Contraction of the second	\$63.00	3-slot, double			N[lbf]	(-Co) N[lbf]	(Mr) N-m[lbf-ft]	(My) N-m[lbf-ft]		PDF					
<u>166394</u>		\$63.00	flange, short linear bearing	40 x 40mm,		1000 [225]	500 [112]	40 [29]	150 [111]		PDF					
<u>166395</u>		\$126.00	3-slot, double flange,	40 x 80mm				80	200	-	PDF					
<u>166396</u>	11-1-1-1 11-1-1-1 11-1-1-1 1-1-1-1 1-1-1-1 1-1-1-1 1-1-1-1 1-1-1-1 1-1-1-1 1-1-1-1 1-1-1-1 1-1-1-1-1 1-1-1-1-1-1 1-1-1-1-1-1-1 1-	\$130.00	long linear bearing			2000	1000	[59]	[147]		PDF					
<u>166397</u>	A A A A A A A A A A A A A A A A A A A	\$80.00	4-slot, double flange,			[450]	[225]	50	150		PDF					
<u>166398</u>		\$84.00	short linear bearing		40 00	40 x 80mm	40 x 80mm	40 x 80mm.	40 x 80mm,				[37]	[111]	Aluminum/	PDF
<u>166399</u>		\$157.00	4-slot, double flange,	80 x 80mm	1	4000	2000	100 200		die-cast zinc/ polyoxymethylene (POM)	PDF					
<u>166400</u>		\$168.00	long linear bearing			[889]	[450]	[74]	[147]		PDF					
<u>166401</u>		\$60.00	3-slot, single flange,			1000	500	40	150		PDF					
<u>166402</u>	1. 1 K	\$63.00	short linear bearing	40 x 40mm,		[225]	[112]	[29]	[111}		PDF					
<u>166403</u>		\$120.00	3-slot, single flange,	80 x 80mm		2000	1000	80	200		PDF					
<u>166404</u>		\$126.00	long linear bearing			[450]	[225]	[59]	[147]		PDF					

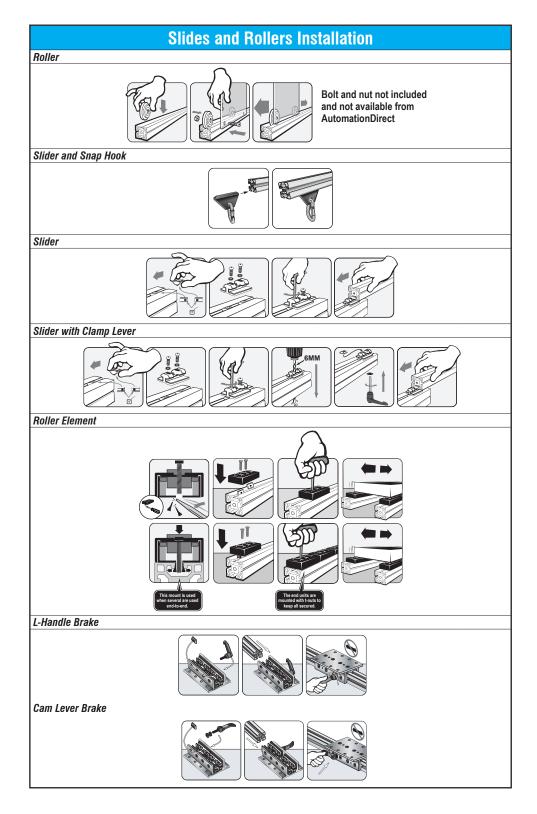
# 1-800-633-0405 FATH<sup>®</sup> T-Slotted Rail Accessories

### **Slides and Rollers - Continued**



			<b>40 Series Slides</b>	and Roll	ers - Co	ont'd		
	Fits	Slot Size	XX					
Part Number	Part Image	Price	Description	Fits	Pack Quantity	Recommended Screw Fastener T-Slot Attachment	Material	Drawing Link
<u>166349</u>		\$45.00	Cam Lever Brake	All 40 Series		n/a	Plastic/steel	<u>PDF</u>
<u>166350</u>		\$28.00	L-Handle Brake	Bearings		liva	Fiasilo/steel	<u>PDF</u>
<u>151168</u>	an (E)	\$18.00	Slider			Fature total	Rubber/plastic/	<u>PDF</u>
<u>151169</u>	Channes I	\$36.00	Slider With Clamp Lever	n/a	1	Fasteners included	steel	<u>PDF</u>
<u>148974</u>		\$9.50	Roller				Nylon	<u>PDF</u>
<u>151166</u>		\$4.50	Slider			n/a	Glass-filled nylon	PDF
<u>151089</u>	and and	\$4.50	Snap Hook	Slider <u>151166</u>			Zinc plated steel	PDF
<u>163020</u>	Louis	\$14.50	Roller Element With Guide	All 40 Series		Fasteners included	Thermoplastic	<u>PDF</u>
<u>163021</u>	Helef	\$14.50	Roller Element Without Guide				polyurethane/ nylon/steel	<u>PDF</u>

#### **Slides and Rollers - Continued**



#### **Monitor Mounts**

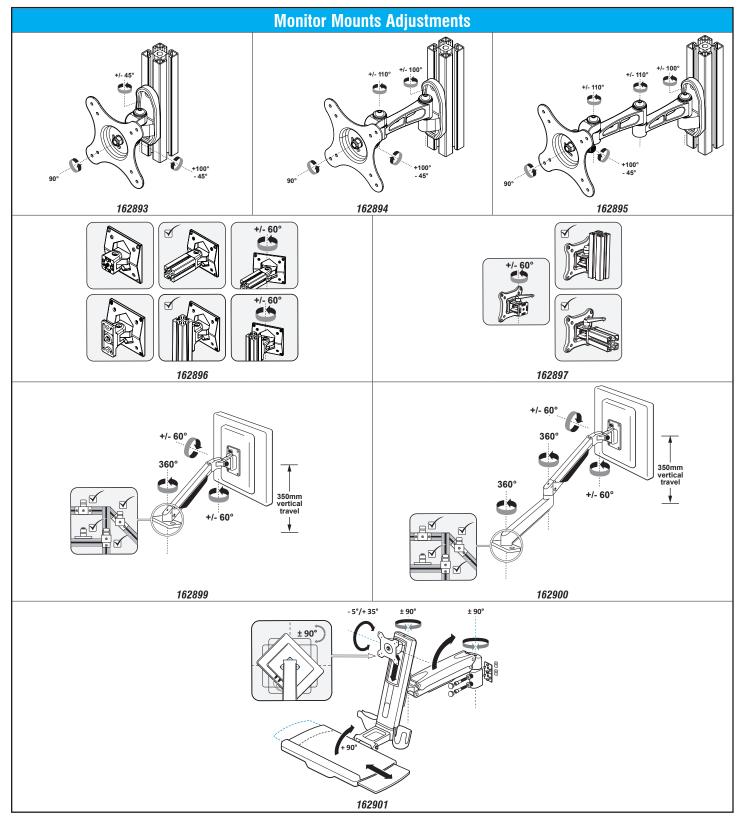




40 Series Monitor Mounts											
Durable steel	lware included for several	Fits Slot S	Size	• VESA Mounting Sta di 100 X 100mm df 75 X 75mm df 4X M4-0.7 Threads •	VESA Mounting Standard d 10 X 100mm d 75 X 15mm g 4X Me 5 7 Towasded Holes e •						
Part Number	Part Image	Price	Description	Load Rating kg [lb]	Pack Quantity	Installation Instructions Link	Drawing Link				
<u>162893</u>	<b>By</b>	\$42.00				PDF	<u>PDF</u>				
<u>162894</u>		\$50.00	Swivel Monitor Mount			PDF	<u>PDF</u>				
<u>162895</u>	FFO	\$58.00		15 [33.1]		PDF	PDF				
<u>162896</u>	Ħ	\$92.00	Monitor Mounting Joint			PDF	PDF				
<u>162897</u>	E	\$92.00	Monitor Holder		1	PDF	<u>PDF</u>				
<u>162899</u>		\$325.00	4-Axis Mounting Support			PDF	PDF				
<u>162900</u>		\$394.00	5-Axis Mounting Support	10 [22.0]		PDF	PDF				
<u>162901</u>		\$630.00	4-Axis Workstation	8 [17.6]		PDF	PDF				

# **FATH T-Slotted Rail Accessories**

#### **Monitor Mounts - Continued**

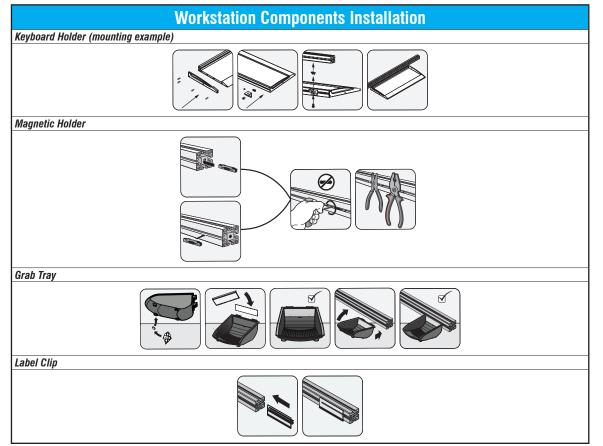


### **For the latest p FATH® T-Slotted Rail Accessories**

#### **Workstation Components**



			40 Series Workstation Comp	onents			
	Fits	Slot Size	40 Series (mm) 40x40 40x80 80x80				
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)			Aluminum/nylon	<u>PDF</u>
<u>162906</u>		\$8.00	Magnetic Holder			Nylon/steel	PDF
<u>162909</u>		\$5.50	Top Angle Clamp	n/a	1	Nylon/steel	PDF
<u>162964</u>		\$9.00	Grab Tray			Nylon	PDF
<u>162965</u>		\$2.00	Label Clip			PVC	PDF



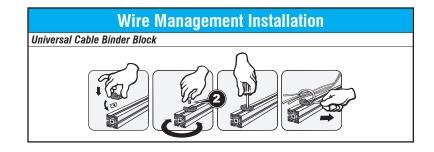
# 1-800-633-0405 For the latest

#### Wire Management





	40 Series Wire Management									
	Fits	Slot Size	40 Series (mm) 40x40 40x80							
Part Number	Part Image	Price	Description	Pack Quantity	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Material	Drawing Link			
<u>151161</u>		\$89.00	Conduit Cover 2000mm long	2		Debaserdare	<u>PDF</u>			
<u>151162</u>		\$93.00	Conduit Cover 2000mm long	2		Polypropylene	PDF			
<u>151174</u>		\$15.50	Cross Cable Binding Block		n/a	Nylon	<u>PDF</u>			
<u>151175</u>	9	\$64.00	Hook And Loop	10	10	10	10		Glass-filled nylon/ polypropylene	<u>PDF</u>
<u>151176</u>	~	\$38.50	Clip Cable Binder With Hammer			Nylon/rubber	<u>PDF</u>			
<u>151177</u>	<b>PR</b>	\$28.50	Ground Connector	1	Fasteners included	Glass-filled nylon/ copper/steel	PDF			
<u>151178</u>	and the second	\$4.00	Grounding Terminal			Steel/brass	<u>PDF</u>			
<u>162982</u>		\$7.50	Universal Cable Binder Block	10	<u>161058</u>	Nylon	PDF			
*T-Slot Nut also require	ed									



# 1-800-633-0405 **FATH® T-Slotted Rail Accessories**

#### **Miscellaneous Accessories**



	40 Series Miscellaneous Accessories											
	Fits	Slot Size	40 Seria 40x40	es (mm) 40x80								
Part Number	Part Image	Price	Description	Requires	Fits Profile	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Pack Quantity	Material	Drawing Link			
<u>151234</u>		\$16.50			40 x 40mm				PDF			
<u>151235</u>		\$20.50	End Cap		40 x 80mm		10	Glass-filled nylon	PDF			
<u>151236</u>		\$32.00			80 x 80mm	n/a			<u>PDF</u>			
<u>151091</u>		\$6.00	Chan Dumann					Rubber/zinc-	<u>PDF</u>			
<u>151170</u>		\$9.00	Stop Bumper	n/a	All 40 Series		1	plated steel	PDF			
<u>162973</u>		\$3.25	Sensor Mounting Block for 8mm proximity sensor			BHCS M4-0.7 x 25mm		Nylon	<u>PDF</u>			
<u>162974</u>		\$3.25	Sensor Mounting Block for 12mm proximity sensor			(not sold by ADC)			PDF			
<u>162929</u>		\$252.00	Side Protection Profile		All 40 Series		5		PDF			
<u>162930</u>	E	\$284.00	Corner Protection Profile					Thermoplastic	<u>PDF</u>			
<u>162931</u>		\$28.00	Cover Cap for Side	<u>162929</u> or <u>162930</u>		n/a	10	rubber	<u>PDF</u>			
<u>162932</u>		\$21.00	Cover Cap for Corner	<u>162930</u>					<u>PDF</u>			
*T-Slot Nut also re	equired											

# 1-800-633-0405 For the latest

#### **Miscellaneous Accessories - Continued**

	Workstation Components Installation
Sensor Mounting Block	
Side Protection Profile	
<b>Corner Protection Profile</b>	
Cover Cap for Side	
cover cap for side	$\cap$
Cover Cap for Corner	

I-800-633-0405 For the latest prices, pier Sure frame<sup>™</sup> Aluminum T-Slotted Rail

#### 45 Series Metric T-Slotted Aluminum Rail

SureFrame<sup>™</sup> 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.

- ${\scriptstyle \bullet}$  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]





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



			45	Series (metrie	C)				
Slot Size 10 Core Hole Ø 10.0 mm									
Part Number	Part Image	Price per cm	Profile Size	Weight Class	Weight Ibs/ft [kg/m]	Moment of Inertia Lx	Moment of Inertia Ly	Drawing Link	
<u>45-4545C</u>		\$0.28	45 x 45mm	Standard	1.480 [2.202]	0.389 [16.824 cm <sup>4</sup> ]	0.389 [16.824 cm⁴]	<u>PDF</u>	
<u>45-4545CL</u>		\$0.22	45 X 45mm	Light	1.100 [1.637]	0.290 [12.064m <sup>4</sup> ]	0.290 [12.064m <sup>4</sup> ]	<u>PDF</u>	
<u>45-4590C</u>		\$0.59	45	Standard	3.081 [4.585]	0.866 [36.026 cm <sup>4</sup> ]	3.295 [137.072 cm <sup>4</sup> ]	<u>PDF</u>	
<u>45-4590CL</u>		\$0.44	45 x 90mm	Light	2.159 [3.213]	0.708 [29.453 cm <sup>4</sup> ]	2.584 [107.494 cm <sup>4</sup> ]	<u>PDF</u>	
<u>45-9090C</u>		\$0.98	90 x 90mm	Standard	5.518 [8.212]	5.941 [247.146 cm⁴]	5.941 [247.146 cm <sup>4</sup> ]	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.

www.automationdirect.com

1-800-633-0405



#### **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

4

#### Supported Loads



5 WL<sup>4</sup> 84 El

Aluminum 6063-T6 Properties							
Yield Strength	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)

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

MAX DEFLECTION = -

UNIFORMLY DISTRIBUTED LOAD (simply supported)

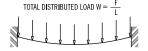
TOTAL DISTRIBUTED LOAD W = 
$$\frac{F}{L}$$

CONCENTRATED LOAD AT CENTER (between fixed supports)

F .

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

UNIFORMLY DISTRIBUTED LOAD (between fixed supports)



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

CONCENTRATED LOAD AT CENTER (simply supported)



UNIFORMLY DISTRIBUTED LOAD (simply supported)

TOTAL DISTRIBUTED LOAD W = 
$$\frac{F}{L}$$
  
MAX DEFLECTION =  $\frac{WL^4}{8 EI}$ 

### **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							
00	Double Economy T-Nut			No							
0	Economy T-Nut										
	Hammer Nut		No	Yes							
R	Slide-In Nut										
TOT	Roll-In Nut with Leaf Spring		No.	No							
	Roll-In Nut with Spring Loaded Ball		Yes								



	Ball						
				45 Series T-Slo	ot Nuts		
		Fits	Slot Size	45 Series (mm) 45x45 45x90			
Part Number	Part Imag	ge	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link
<u>161131</u>			\$8.00	Hammer Nut	– M4-0.7		<u>PDF</u>
<u>161121</u>			\$21.00	Roll-In Nut	1014-0.7		<u>PDF</u>
<u>161132</u>			\$8.00	Hammer Nut	– M5-0.8		<u>PDF</u>
<u>161122</u>	10		\$21.00	Roll-In Nut	MD-U.8	10	<u>PDF</u>
<u>161133</u>			\$8.00	Hammer Nut			<u>PDF</u>
<u>162886</u>	the state		\$12.50	Slide-In Nut	M6-1.0		<u>PDF</u>
<u>151239</u>			\$24.00	Roll-In Nut			<u>PDF</u>
www.automat	iondirect.o	com			Alun	ninum T-Slotted R	ail tATR-131

#### **T-Slot Nuts - Continued**

	45 Series T-Slot Nuts - Continued									
	Fits	Slot Size	45 Series (mm) 45 X45 45x90 90x	کر کڑ <sup>ا</sup>						
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link				
<u>151237</u>	8	\$7.25	Economy T-Nut		10	PDF				
<u>148803</u>	00	\$5.75	Double Economy T-Nut		4	PDF				
<u>151238</u>		\$9.00	Hammer Nut	M8-1.25		PDF				
<u>162887</u>	(H)	\$12.50	Slide-In Nut	-		PDF				
<u>151240</u>	and the second	\$24.00	Roll-In Nut		10	PDF				
<u>162888</u>	233) Marine	\$17.00	Slide-In Nut	M10-1.5		PDF				

# 1-800-633-0405 For the latest **FATH**<sup>®</sup> **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

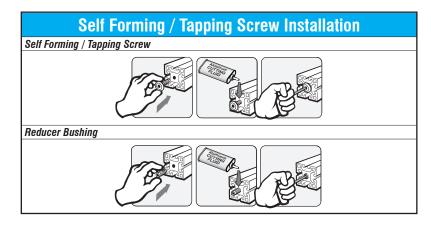
			45 Serie	es Fasteners			
	Fits	Slot Size	45 Series (r 45x45 45)	XAZ			
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link
<u>162994</u>	Ø.	\$8.00	8-32 UNF x 3/8in	Button head socket cap screw			<u>PDF</u>
<u>161073</u>	Oom	\$7.75	8-32 UNF x 1/2in	Flat head socket cap screw	- Flat black		<u>PDF</u>
<u>162993</u>	(in the second s	\$7.50	10-32 UNF x 3/8in	Button head socket cap screw	The block		<u>PDF</u>
<u>162995</u>		\$7.75	10-32 UNF x 1/2in	Socket head cap screw			<u>PDF</u>
<u>161088</u>	01	\$2.25	M4-0.7 x 8mm			10	<u>PDF</u>
<u>161089</u>		\$2.50		Socket head cap screw	-		<u>PDF</u>
<u>161056</u>	2	\$1.00	- M4-0.7 x 10mm	Button head socket cap screw			<u>PDF</u>
<u>161076</u>	( ) Same	\$1.50	M4-0.7 x 12mm	Flat head socket cap screw			PDF
<u>161057</u>	<b>P</b>	\$1.25	- M5-0.8 x 10mm	Button head socket cap screw			<u>PDF</u>
<u>161090</u>		\$2.50	WI3-0.0 X TUTHIT	Socket head cap screw	Bright zinc		<u>PDF</u>
<u>161077</u>	Istory	\$1.75		Flat head socket cap screw			<u>PDF</u>
<u>161091</u>	Ø.	\$2.75	M5-0.8 x 12mm	Socket head cap screw			<u>PDF</u>
<u>161058</u>	82	\$1.75		Button head socket cap screw			<u>PDF</u>
<u>161092</u>	E)	\$2.75	M6-1.0 x 10mm	Socket head cap screw			<u>PDF</u>

			45 Series Fast	teners - Continued			
	Fits	Slot Size	45 Series ( 45x45 45)	XXX			
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link
<u>161078</u>	<u>O</u>	\$2.25		Flat head socket cap screw			<u>PDF</u>
<u>161059</u>	2	\$2.00	M6-1.0 x 12mm	Button head socket cap screw			<u>PDF</u>
<u>161093</u>		\$2.75		Socket head cap screw			<u>PDF</u>
<u>161079</u>	De	\$2.50	M6-1.0 x 14mm	Flat head socket cap screw			<u>PDF</u>
<u>161060</u>	(Engl)	\$2.25		Button head socket cap screw	Bright zinc	10	<u>PDF</u>
<u>161094</u>	2	\$3.00	- M6-1.0 x 14mm	Socket head cap screw			PDF
<u>161080</u>	<b>O</b>	\$2.50		Flat head socket cap screw			<u>PDF</u>
<u>161061</u>	Sec.	\$2.50	M6-1.0 x 16mm	Button head socket cap screw			<u>PDF</u>
<u>161095</u>	Ø.	\$3.00		Socket head cap screw			<u>PDF</u>
<u>161062</u>		\$3.00		Button head socket cap screw			<u>PDF</u>
<u>161096</u>	0	\$3.25	- M6-1.0 x 18mm	Socket head cap screw			<u>PDF</u>
<u>161081</u>		\$2.75		Flat head socket cap screw			PDF
<u>161063</u>		\$3.00	M6-1.0 x 20mm	Button head socket cap screw			PDF
<u>161097</u>	0	\$3.25		Socket head cap screw			PDF
<u>161064</u>		\$3.25	M6-1.0 x 25mm	Button head socket cap screw			PDF

	45 Series Fasteners - Continued										
	Fits	Slot Size	XX	(mm)							
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link				
<u>161082</u>		\$4.75		Flat head socket cap screw			<u>PDF</u>				
<u>161065</u>	×	\$4.25	M8-1.25 x 12mm	Button head socket cap screw			PDF				
<u>161098</u>	e)	\$4.75		Socket head cap screw			<u>PDF</u>				
<u>161066</u>	E.	\$4.50	M8-1.25 x 14mm	Button head socket cap screw			<u>PDF</u>				
<u>161083</u>		\$5.00	N0.4.05 44	Flat head socket cap screw	Bright zinc	10	<u>PDF</u>				
<u>161099</u>	2	\$5.00	– M8-1.25 x 14mm	Socket head cap screw			<u>PDF</u>				
<u>161084</u>		\$5.50		Flat head socket cap screw			<u>PDF</u>				
<u>161100</u>	C) and	\$5.50		Socket head cap screw			<u>PDF</u>				
<u>161067</u>	Sent and a sent and a sent and a sent a s	\$4.75	M8-1.25 x 16mm	Duttee band earlyst one early			<u>PDF</u>				
<u>151183</u>	6	\$4.75		Button head socket cap screw	Oharaktari		<u>PDF</u>				
<u>151184</u>	0	\$5.50		Flanged button head socket cap screw	Gloss black		PDF				
<u>161085</u>	· Anno	\$5.50		Flat head socket cap screw			PDF				
<u>161068</u>	()	\$5.25	M8-1.25 x 18mm	Button head socket cap screw	Dricht-in-		PDF				
<u>161101</u>	0	\$5.50		Socket head cap screw	Bright zinc		PDF				
<u>151241</u>	(Second	\$4.50	M8-1.25 x 20mm	Button head socket cap screw			PDF				

45 Series Fasteners - Continued											
Fits Slot Size											
Part Number	Part Image	Price	Thread X Length	Head Type	Color	Pack Quantity	Drawing Link				
<u>161102</u>	0	\$5.75	M8-1.25 x 20mm	Socket head cap screw			<u>PDF</u>				
<u>161086</u>		\$7.00	N0.4.05	Flat head socket cap screw	-	10	PDF				
<u>161069</u>		\$5.25	- M8-1.25 x 25mm	Button head socket cap screw	Bright zinc		PDF				
<u>161070</u>		\$8.00	M8-1.25 x 40mm				PDF				
<u>161071</u>	×	\$15.50	M12-1.75 x 25mm	Button head socket cap screw			PDF				
<u>161072</u>	(Summer Section 200	\$23.00	M12-1.75 x 40mm				<u>PDF</u>				
<u>118590</u>		\$2.25	M8-1.25 x 25mm	Hammer head screw and flange nut		1	PDF				

45 Series Self Forming / Tapping Screws									
45 Series Fits Core Hole			45 Series (1 45x45 45x	XAZ	Works with Aluminum with hole diameter 0.394" - 0.413" [10.0 - 10.5 mm]				
Part Number	Part Image	Price	Thread X Length	Description	Color	Pack Quantity	Drawing Link		
<u>161110</u>	Ø.	\$10.50	12 x 30mm	Self-Tapping Screw Button head socket cap T-50 Torx		10	<u>PDF</u>		
<u>161111</u>	O man	\$28.00	12 x 40mm	Self-Tapping Screw Button head socket cap	Bright zinc		<u>PDF</u>		
<u>161042</u>		\$27.00	M8-1.25 Internal thread	Reducer Bushing			PDF		



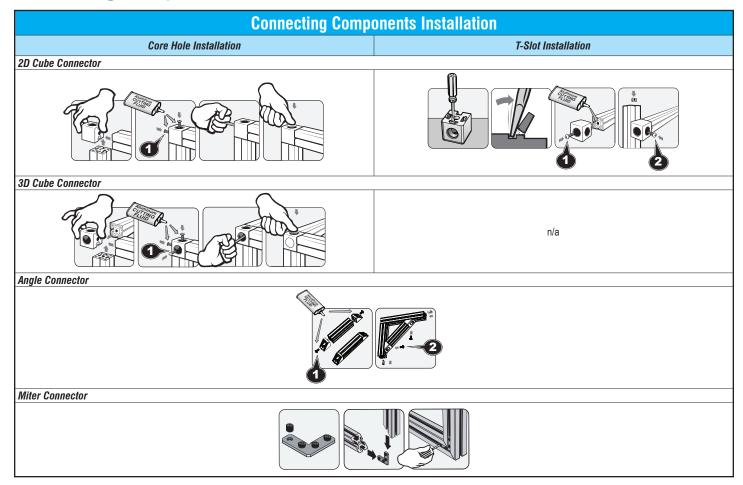
# 1-800-633-0405 For the latest **FATH**<sup>®</sup> **T-Slotted Rail Accessories**

#### **Connecting Components**

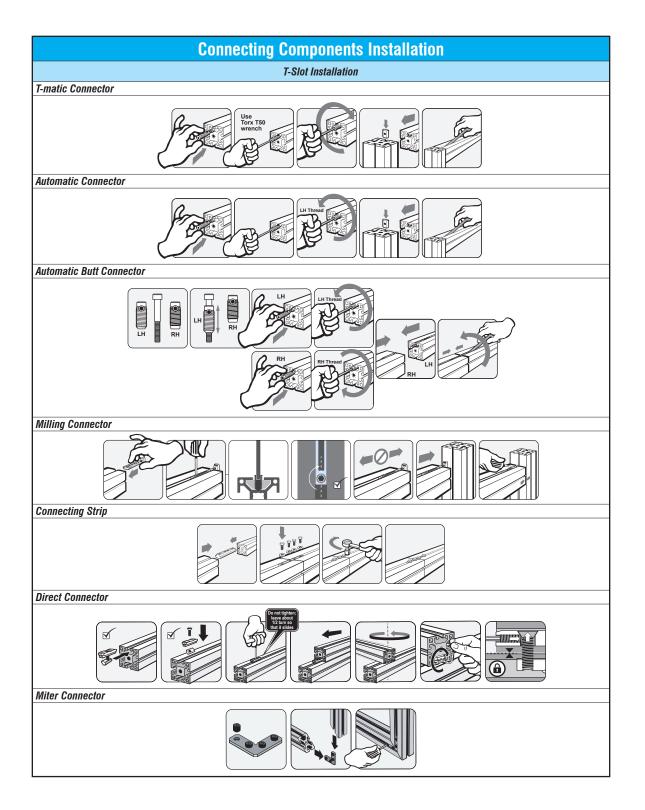
- Connects two or three T-slot rails together
- Recommended ADC Fastener based on part feature, slot Depth and core hole
- Material: varies by part

ge	Slot Size 10 Price \$11.00 \$11.50	Description 2d Cube Connector	45 Series ( 45 Se	mm) x90 90x90 Material	Recommended	Screw Fastener t Number) *T-Slot	Dool				
	\$11.00	2d Cube	Fits Profile	Material	(ADC Par Core Hole	t Number)	Doole				
	\$11.00	2d Cube	Fits Profile	Material	Core Hole		Doole				
						Attachment 2	Pack Quantity	Drawing Link			
	\$11.50					<u>161068</u>		<u>PDF</u>			
		3d Cube Connector	_ a	45 x 45mm	45 x 45mm	Die-cast aluminum	<u>161110</u>	n/a	1	<u>PDF</u>	
	\$10.50			-		<u>151241</u>		PDF			
•1	\$16.50	Angle Connector	45 x 90mm					<u>PDF</u>			
	\$96.00	T-Matic Connector					10	PDF			
	\$59.00	Automatic Connector	Series (45-xxxxCL)	Series		Series	.)				<u>PDF</u>
	Retired	Automatic Butt Connector						n/a		PDF	
(3)	\$11.50	Milling Connector		Zinc plated	n/a		1	PDF			
100	\$18.00	Connecting Strip		steel				<u>PDF</u>			
	\$13.00	Direct Connector	AII 40 Series			Fasteners included		PDF			
	\$12.50	Miter Connector		Steel		M10-1.25 x 8mm set screw (4) included		<u>PDF</u>			
	14 14	,	\$13.00     Direct Connector       \$12.50     Miter Connector	\$13.00     Direct Connector       \$12.50     Miter Connector	\$18.00       Connecting Strip         \$13.00       Direct Connector         \$13.00       Direct Connector         \$12.50       Miter Connector	\$18.00     Connecting Strip       \$13.00     Direct Connector       \$13.00     Direct Connector   Steel	\$18.00       Connecting Strip         \$13.00       Direct Connector         \$13.00       Direct Connector         \$12.50       Miter Connector    Steel          \$12.50       Miter Connector	\$18.00       Connecting Strip         \$18.00       Connecting Strip         \$13.00       Direct Connector         \$13.00       Direct Connector         \$12.50       Miter Connector			

#### **Connecting Components - Continued**



#### **Connecting Components - Continued**



# 1-800-633-0405 For the latest **FATH**<sup>®</sup> **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

	45 Series Joining Plates										
	Fits	Slot Size	45 Series (mm) 45x45 45x90	90x90							
Part Number	Part Image	Price	Description	Recommended Screw Fastener - T-Slot Hole Attachment (ADC Part Number)	Pack Quantity	Drawing Link					
<u>148851</u>		\$8.25				PDF					
<u>162987</u>	222	\$10.50	Straight Flat Plate		1	PDF					
<u>148857</u>		\$12.00				<u>PDF</u>					
<u>148854</u>		\$10.00	Square Flat Plate			<u>PDF</u>					
<u>148859</u>		\$18.00	Rectangular Flat Plate			<u>PDF</u>					
<u>151249</u>	· · ·	\$19.00	Flat Plate			<u>PDF</u>					
<u>151250</u>	• • •	\$20.50	T Shanad Elat Diata			PDF					
<u>148863</u>		\$29.50	T-Shaped Flat Plate			PDF					

#### **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



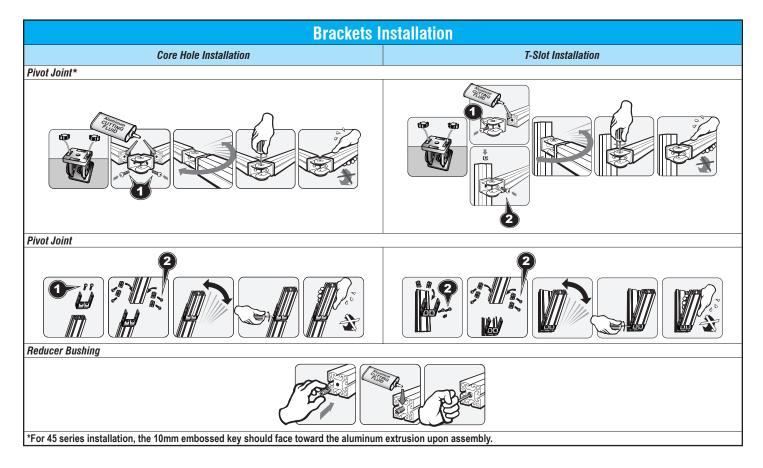
• Material: varie			4E Q	eries Brackets				
Part Number	Part Image	Price	Description	Recommended (ADC Part Core Hole Attachment	Screw Fastener t Number) *T-Slot Attachment 2	Pack Quantity	Material	Drawing Link
<u>151251</u>	F	\$4.00					Die-cast aluminum	PDF
<u>151252</u>		\$7.75	Angle Bracket		<u>151241</u>			PDF
<u>148899</u>		\$5.25	Inside Corner Bracket					PDF
<u>148902</u>		\$7.50	Wide Inside Corner Bracket	n/a		1	Anodized aluminum	<u>PDF</u>
<u>148904</u>	in a c	\$7.50	Tall Inside Corner Bracket					PDF
<u>148907</u>		\$11.50	Inside Corner Bracket					PDF
<u>148912</u>	e e	\$5.25	Gusseted Inside Corner Bracket		<u>151183</u> or <u>151184</u>			<u>PDF</u>
<u>148914</u>	CC	\$12.00	Tall Gusseted Inside Corner Bracket					PDF
<u>148913</u>		\$11.00	Wide Gusseted Inside Corner Bracket					
<u>148979</u>		\$21.50	Gusseted Inside Corner Bracket					PDF
*T-Slot Nut also re	equired.	I	1		<u> </u>	1	I	1

#### **Brackets - Continued**

	45 Series Brackets - Continued										
Fits Slot Size											
Part Number	Part Image	Price	Description	Recommended (ADC Part Core Hole Attachment		Pack Quantity	Material	Drawing Link			
<u>151253</u>		\$29.50	Pivot Joint	<u>161042</u> and <u>161067</u> Install 161042 first	161067		Die-cast zinc	PDF			
<u>151254</u>	()	\$39.50	Pivot Joint With Locking Handle	then 161067	101007		Die-Cast Zinc	PDF			
<u>163016</u>		\$35.00	1-Slot Pivot Joint	<u>161069</u> and <u>161042</u> – install 161042 first then 161069		1	Die-cast zinc/die-cast aluminum/ nylon	PDF			
<u>163019</u>		\$53.00	2-Slot Pivot Joint		<u>161068</u>			PDF			
*T-Slot Nut also r	equired.										

45 Series Reducer Bushing									
Fits Core Hole 45 Series (mm) 45 Series (mm) 45 Series (mm) 45 Series (mm) 45 Series (mm) 90x90									
Part Number	Part Image	Price	Thread X Length	Description	Color	Pack Quantity	Drawing Link		
<u>161042</u>		\$27.00	M8-1.25 Internal thread	Reducer Bushing	Bright zinc	10	<u>PDF</u>		

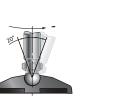
#### **Brackets - Continued**



#### 1-800-633-0405 **FATH® T-Slotted Rail Accessories**

#### **Bases**

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





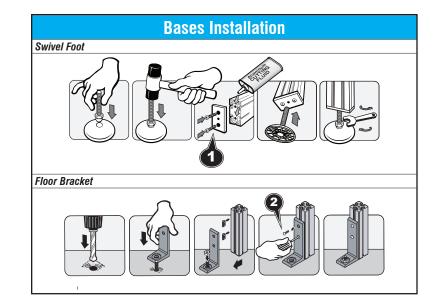
					45 Series	Bases					
	Fits	Slot S		2	5 Series (mm) <b>2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3</b>	57 57 50 290x90					
								Recommended Screw Fastener (ADC Part Number)			
Part Number	Part Image	Price	Diameter	Description	Fits	Load Rating kg [lb]	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	Material	Drawing Link
<u>151259</u>	9"9	\$20.50		M40.4.75 Terreret/	45 x 90mm		161111 (2) included with kit				PDF
<u>151260</u>	0 ° 0 2 2	\$25.00		M12-1.75 Transport/ Base Plate	90 x 90mm		(4) included with kit	- - -	1	Die-cast zinc	PDF
<u>162951</u>		\$20.00		M16-2.0 Transport/ Base Plate	45 x 00mm		<u>161111</u>				PDF
<u>162952</u>		\$20.00		M20-2.5 Transport/ Base Plate	- 45 x 90mm	n/a	(2) included with kit				PDF
<u>162953</u>	2 0 C	\$25.00	n/a	M16-2.0 Transport/ Base Plate	- 90 x 90mm	-	<u>161111</u>				PDF
<u>162954</u>		\$25.00		M20-2.5 Transport/ Base Plate			(4) included with kit				PDF
<u>151231</u>		\$4.50	-	M12-1.75 x 66mm Swivel Foot Threaded Rod with 15mm ball	Transport/Base Plate <u>151259</u> or <u>151260</u>	770 [1698]**					PDF
<u>162938</u>	33	\$6.50	-	M16-2.0 x 100mm Swivel Foot Threaded Rod with 15mm ball	Transport/Base Plate <u>162951</u> or <u>162953</u>	1450 [3197]**				Zinc plated steel	PDF
<u>162939</u>	3 <sup>±</sup>	\$11.00	-	M20-2.5 x 150mm Swivel Foot Threaded Rod with 15mm ball	Transport/Base Plate <u>162952</u> or <u>162954</u>	2430 [5357]**	n/a				PDF
<u>151068</u>	6	\$4.00	1.57 in	Swivel Base With	Any 15mm ball	900 [1984]				Nylon	PDF
<u>151071</u>		\$9.50	[39.0 mm]	Anti-Slip Plate	Threaded Rod	3000 [6614]				Die-cast zinc	PDF
	stallation with Trar			e part with the lowes	t load rating, typ	ically the threa	aded rod.				1

Threaded rod load rating = 210kg [463lb] Swivel base load rating = 3000kg [6614lb] Swivel foot assembly load rating = 210kg [463lb]

#### **Bases - Continued**

				45 Serie	es Bases	- continu	ied				
	Fits	Slot S		45 S 45×4	eries (mm) 5 45x90						
					Load		Recommended Screw Fastener (ADC Part Number)		Dest		
Part Number	Part Image	Price	Diameter	Description	Fits	Rating kg [lb]	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	Material	Drawing Link
<u>151072</u>		\$17.00				3000 [6614]				Die-cast	PDF
<u>151073</u>	3 8 6	\$17.00	3.11 in	_ Swivel Base With Anti- Slip Plate Rod		0000 [0014]		n/a		zinc	PDF
<u>151069</u>		\$6.00	[79.0 mm]			900 [1984]					<u>PDF</u>
<u>151070</u>		\$6.00			ball Threaded	300 [1304]	_			Nylon -	<u>PDF</u>
<u>151255</u>		\$10.00	3.90 in			900 [1984] 3500 [7716]	n/a				PDF
<u>151256</u>		\$10.00	[99.0 mm]								<u>PDF</u>
<u>151257</u>		\$24.00	3.90 in					1	Die-cast	<u>PDF</u>	
<u>151258</u>		\$24.00	[99.0 mm]				_			zinc	<u>PDF</u>
<u>162933</u>	•	\$12.50	See 2D	Extended Swivel Base	Any 15mm ball Threaded	1000 [2204]				Nylon	PDF
<u>162934</u>	•	\$27.00	drawing		Rod	3000 [6613]				Die-cast zinc	PDF
<u>162959</u>	• •	\$12.50	n/a	Floor Bracket	All 45 Series	n/a		<u>161068</u>		Anodized aluminum	<u>PDF</u>
**Based on ins Load rating of Example: Threaded rod I Swivel base loa	Slot Nut also required. Sased on installation with Transport / Base Plate ad rating of a swivel foot assembly is based on the part with the lowest load rating, typically the threaded rod. ample: readed rod load rating = 210kg [463lb] <i>vivel</i> base load rating = 3000kg [6614lb] <i>vivel</i> foot assembly load rating = 210kg [463lb]										

#### **Bases - Continued**



#### Casters

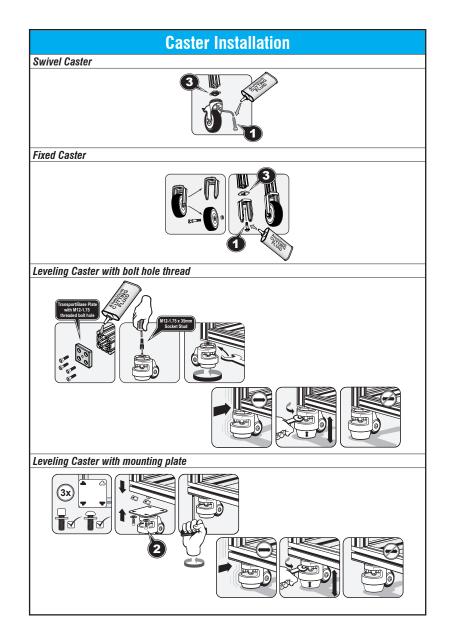
• Recommended ADC Fastener based on part feature and core hole

• Material: varies by part

				45 Series	Casters					
	Fits	Slot Size	3	45 Series (mm) 45x45 45x90						
Part Number	Part Image	Price	Description	Requires	Load Rating kg [lb]		Screw Fastener t Number) *T-Slot Attachment 2	Pack Quantity	Material	Drawing Link
<u>151134</u>	J	\$47.00	Swivel Caster	Requires Swivel Caster Adapter Plate <u>151261)</u>	122 [269]	<u>161111</u>			Thermoplastic polyurethane/	PDF
<u>151135</u>	5	\$40.50	Fixed Caster	Requires Fixed       Caster Adapter       Plate 161041)   n/a			nylon/steel	<u>PDF</u>		
<u>151261</u>	8	\$4.50	3 Swivel Caster Adapter Plate	Requires Swivel Caster <u>151134)</u>	n/a			1	Steel	<u>PDF</u>
<u>161041</u>		\$3.50	<b>3</b> Fixed Caster Adapter Plate	Requires Fixed Caster <u>151135</u>					Die-cast zinc	PDF
<u>151137</u>	I	\$62.00	Swivel Caster	n/a	122 [269]		<u>161066</u>		Thermoplastic polyurethane/ nylon/steel	PDF
<u>151138</u>		\$49.00	Fixed Caster		[100]					PDF
<u>163010</u>		\$40.00		Transport / Base Plate with	250 [551]	n/a	n/a			<u>PDF</u>
<u>163011</u>		\$52.00	Leveling Caster	M12-1.75 threaded hole	500 [1102]		11/ CA		Die-cast aluminum/	PDF
<u>163012</u>	٢	\$41.00	Levening Caster	n/a	250 [551]		<u>161061</u>	-	steel/nylon/ rubber	PDF
<u>163013</u>		\$56.00		11/d	500 [1102]		101001			PDF
*T-Slot Nut also	required			·	-					

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#### **Casters - Continued**



#### Hinges

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



			45 Ser	ies Hinges	-		
	Fits	Slot Size	45 Series (1 45x45 45x	xXX			
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Material	Drawing Link
<u>151262</u>		\$7.75	Left-Hand Detachable Combination Hinge				PDF
<u>151263</u>	<b>1 1</b>	\$7.75	Right-Hand Detachable Combination Hinge			Fiberglass reinforced plastic	PDF
<u>151264</u>		\$7.75	Non-Detachable Combination Hinge				PDF
<u>151265</u>		\$12.00	Non-Detachable Combination Hinge With Locking Lever	<u>161080</u>	1		PDF
<u>151266</u>	C. C. C.	\$18.00	Left-Hand Detachable Combination Hinge				PDF
<u>151267</u>	43	\$18.00	Right-Hand Detachable Combination Hinge			Die-cast aluminum	PDF
<u>151268</u>	L L L L L L L L L L L L L L L L L L L	\$18.00	Non-Detachable Combination Hinge				PDF
*T-Slot Nut also requi	red						

#### Panel and Door Elements

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



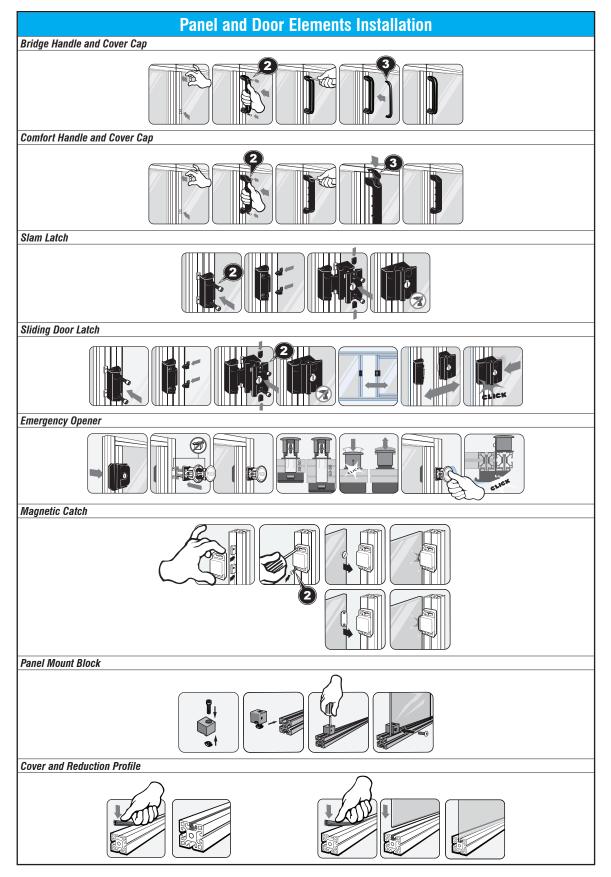
		4	<b>5 Series Panel</b>	and Door	Elements			
	Fits	Slot Size	45 Series (r 45x45 45x	m XXX				
Part Number	Part Image	Price	Description		Screw Fastener t Number) *T-Slot Attachment 2	Pack Quantity	Material	Drawing Link
<u>151146</u>		\$6.00			<u>161063</u>			PDF
<u>151147</u>		\$6.00	<ul> <li>Bridge Handle</li> </ul>		<u>161067</u>		Fiberglass reinforced plastic	PDF
<u>151148</u>		\$6.25	Cover Cap 3		n/a			PDF
<u>151149</u>		\$6.50	Comfort Handle		<u>151241</u>			PDF
<u>151150</u>		\$2.25	Cover Cap 3		n/a			PDF
<u>151151</u>		\$12.50	Comfort Handle	n/a	<u>151241</u>			<u>PDF</u>
<u>151152</u>		\$3.00	Cover Cap 3		n/a			<u>PDF</u>
<u>151153</u>		\$33.50	Machine Handle		<u>161100</u>	1		PDF
<u>151154</u>	-	\$47.00	Compact Slam Latch					PDF
<u>151155</u>		\$58.00	Compact Sliding Door Latch		<u>161061</u>		Die-cast aluminum	PDF
<u>162972</u>		\$34.00	Sliding Door Guide	Fasteners included	n/a		Die-cast aluminum/nylon	PDF
<u>151156</u>	60	\$37.00	Emergency Opener	n/a	<u>161094</u>		Fiberglass reinforced plastic	PDF
<u>162963</u>		\$8.50	Magnetic Catch		<u>161063</u>		Nylon/steel	PDF
*T-Slot Nut also req	uired							

# **FATH T-Slotted Rail Accessories**

#### Panel and Door Elements - Continued

		45 Serie	es Panel and D	oor Elements - Conti	nued		
	Fits	Slot Size	45 Series (r 45x45 45x	xxx			
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (2) (ADC Part Number)	Pack Quantity	Material	Drawing Link
<u>162914</u>	,	\$5.75	Panel Holder	161068		Anodized	PDF
<u>162919</u>	•	\$8.25	Panel Holder <u>161068</u>		1	aluminum	PDF
<u>162926</u>		\$7.25	- Panel Mount Block	Fasteners included		Lacquered aluminum	<u>PDF</u>
<u>162927</u>		\$7.25				Powder-coated aluminum	<u>PDF</u>
<u>162980</u>		\$3.25	Panel Uni-Block		10	Nylon	PDF
<u>151269</u>		\$60.00	Sealing Strip	n/a	2	PVC/TPE	<u>PDF</u>
<u>151272</u>		\$115.00	Cover Profile			Delugranidana	PDF
<u>162981</u>		\$190.00	Cover And Reduction Profile			Polypropylene	PDF
*T-Slot Nut also requir	red						

#### Panel and Door Elements - Continued



#### Panel and Door Elements - Continued

	Panel and Door Elements Installation - Continued
Panel Holder	
Sliding Door Guide	

# 1-800-633-0405 For the latest

#### **Slides and Rollers**



			45 Series SI	ides and	Roller	S		
	Fits	Slot Size	45 Series 45x45 45	(mm)	۲ ۲ ۲ ۲			
Part Number	Part Image	Price	Description	Fits	Pack Quantity	Recommended Screw Fastener T-Slot Attachment	Material	Drawing Link
<u>151274</u>		\$9.50	Roller	All 45 Series			Glass-filled nylon/	<u>PDF</u>
<u>151273</u>		\$4.50	Slider	All 45 Series			steel	PDF
<u>151089</u>		\$4.50	Snap Hook	Slider <u>151273</u>		n/a	Zinc plated steel	<u>PDF</u>
<u>162969</u>		\$7.75	Profile Slider Center Slot		1		Polyoxymethylene	<u>PDF</u>
<u>162970</u>		\$8.00	Profile Slider Center Ridge	All 45 Series			(POM)	<u>PDF</u>
<u>163022</u>	and the	\$16.00	Roller Element With Guide			Entrancial dat	Thermoplastic	<u>PDF</u>
<u>163023</u>	Bellell	\$16.50	Roller Element Without Guide			Fasteners included	polyurethane/nylon/ steel	<u>PDF</u>

#### **Slides and Rollers - Continued**

	Slides and Rollers Installation
Roller	
Slider and Snap Hook	
Profile Slider	
Roller Element	

# **FATH T-Slotted Rail Accessories**

#### **Monitor Mounts**

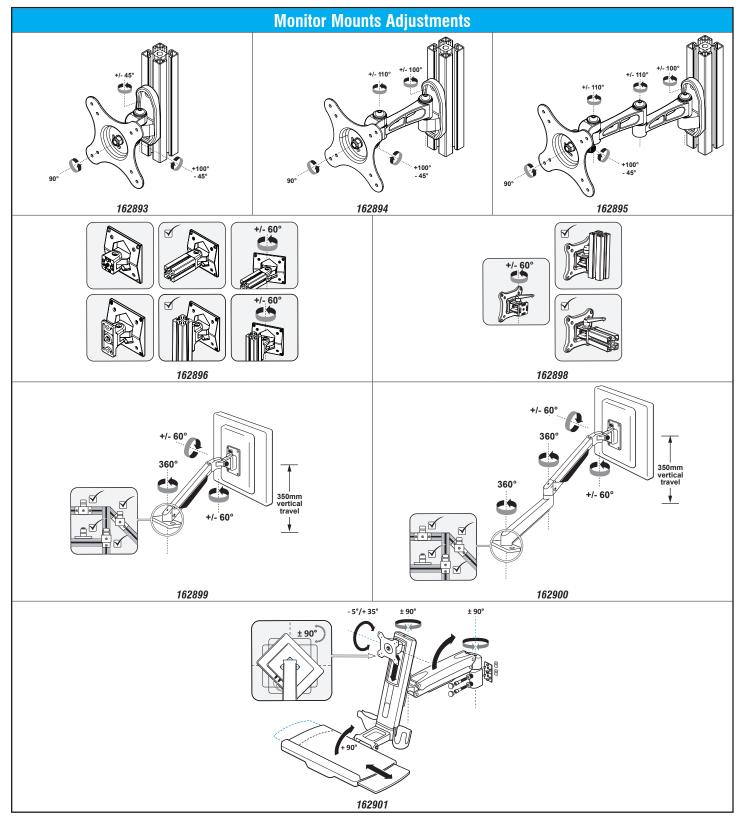




			45 Series Monito	r Mounts			
Durable steel     Powder coat f	inish Iware included for several	Fits Slot Size			● VESA Mounting Star g 100 X 100mm g 75 X 75mm g 4X M+0.7 Threader ●	• dard I Holes •	
Part Number	Part Image	Price	Description	Load Rating kg [lb]	Pack Quantity	Installation Instructions Link	Drawing Link
<u>162893</u>	By	\$42.00				PDF	<u>PDF</u>
<u>162894</u>		\$50.00	Swivel Monitor Mount			PDF	<u>PDF</u>
<u>162895</u>		\$58.00		15 [33.1]		PDF	PDF
<u>162896</u>	Ħ	\$92.00	Monitor Mounting Joint			PDF	<u>PDF</u>
<u>162898</u>		\$93.00	Monitor Holder		1	PDF	<u>PDF</u>
<u>162899</u>		\$325.00	4-Axis Mounting Support			PDF	PDF
<u>162900</u>		\$394.00	5-Axis Mounting Support	10 [22.0]		PDF	PDF
<u>162901</u>		\$630.00	4-Axis Workstation	8 [17.6]		PDF	PDF

# **For the latest**

#### **Monitor Mounts - Continued**



#### **Workstation Components**



	45 Series Workstation Components						
	Fits	Slot Size	45 Series (mm) 45 X45 45X90 90X90				
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)		1	Aluminum/nylon	PDF
<u>162966</u>		\$2.25	Label Clip	n/a	10	PVC	PDF

	Workstation Components Installation
Keyboard Holder (mou	nting example)
Label Clip	

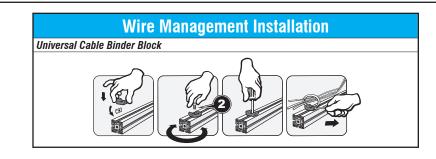
#### 1-800-633-0405 **FATH<sup>®</sup> T-Slotted Rail Accessories**

#### Wire Management



			45 Series Wire	Manag	ement		
	Fits	Slot Size	45 Series (mm) 45x45 45x90	50×90			
Part Number	Part Image	Price	Description	Pack Quantity	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Material	Drawing Link
<u>151270</u>		\$94.00				Polypropylene	PDF
<u>151271</u>		\$94.00	Conduit Cover 2000 min long	nduit Cover 2000 mm long 2 Poly			PDF
<u>151278</u>		\$15.50	\$15.50 Cross Cable Binding Block		n/a	Nylon	PDF
<u>151279</u>	G	\$59.00	Hook And Loop	10		Glass-filled nylon/ polypropylene	PDF
<u>151280</u>		\$33.50	Clip Cable Binder			Nylon/rubber	PDF
<u>151281</u>		\$28.50	Ground Connector	1	Fasteners included	Nylon/rubber	PDF
<u>151178</u>	and the second s	\$4.00	Grounding Terminal			Steel/brass	PDF
<u>162982</u>	<b>\$</b>	\$7.50	Universal Cable Binder Block	10	<u>161058</u>	Nylon	PDF
<u>162984</u>		\$16.50	Cable Binder Block		n/a	-	PDF

\*T-Slot Nut also required

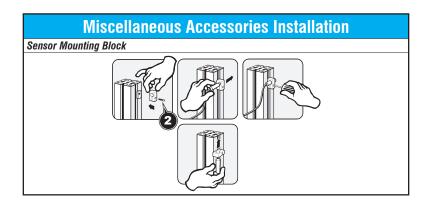


# **FATH T-Slotted Rail Accessories**

#### **Miscellaneous Accessories**



	45 Series Miscellaneous Accessories											
	Fits Slot Size $45$ Series (mm) $545$ $45 \times 45 \times 90$ $90 \times 90$											
Part Number	Part Image	Price	Description	Fits	Recommended Screw Fastener *T-Slot Attachment 2 (ADC Part Number)	Pack Quantity	Material	Drawing Link				
<u>151275</u>		\$16.50		45 x 45mm				PDF				
<u>151276</u>		\$24.00	End Cap	45 x 90mm		10	Glass-filled nylon	PDF				
<u>151277</u>		\$32.00		90 x 90mm	n/a			PDF				
<u>151091</u>		\$6.00	Stop Bumper				Rubber/zinc- plated steel	PDF				
<u>151170</u>		\$9.00	Stop Bumper					PDF				
<u>162973</u>		\$3.25	Sensor Mounting Block for 8mm diameter sensor	All 45 Series	BHCS M4-0.7 x 25mm			PDF				
<u>162974</u>		\$3.25	Sensor Mounting Block for 12mm diameter sensor		(not sold by ADC)			PDF				
*T-Slot Nut also requir	ed		·		·							





## **Ergoswiss Lift System**

#### What is Ergonomics About?

Physical discomfort such as backache and leg pains have a major impact on a person's quality of life. As a result, a person's ability to work may also suffer. These ailments can lead to a decline in productivity, a deterioration of work quality, and a rise in sick leave. The aim of ergonomics is to provide a workspace or environment that is tailored to a person's natural posture and position to reduce strain and injury. Ergoswiss lift systems accomplish this by adapting the height at which people work to their different body heights and activities as well as optimizing working conditions, work processes, and equipment. Perfectly equipped workstations reduce the worker's strain, movement and related injuries, while increasing productivity and efficiency. Ergonomic workstations promote employee motivation, thereby increasing productivity. Taking these factors into consideration, you can see how the Ergoswiss system can pay for itself in just a few months.

#### Why Height Adjustable?

Obviously, people in every workplace are not the same height. In some companies, different people may move from station to station in order to do their work or there might be multiple people using the same workstation but on different shifts. In either case, a workstation with a static height is only ergonomic for one type of person. If someone of another build were to use that workstation, they could strain or injure themselves over time due to having to adjust to the workstation. By having a height adjustable workstation, the employee can instead adjust the workstation to themselves, greatly decreasing the likelihood of strain or injury as a result of a poor working posture.





## **Ergoswiss Lift System**

#### Application

The electrically driven lifting column is suitable for height adjustable tables, laboratory workstations and furniture. Up to 4 lifting columns can be connected to one control box and are operated synchronously. In synchronous operation with 2 control boxes, up to 8 lifting columns can be operated. Each lifting column has an internal motor that drives the threaded spindle. The T-slots on 2 sides (Slot Size 8 or 8 mm wide) allow the mounting of crossbars, shelves and other attachments along the entire length of the leg.

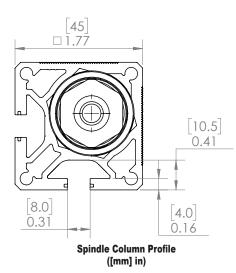
#### **Features**

- Stroke Length: 300mm [11.8"] or 400mm [15.7"]
- Leveling feet included
- Synchronous control of 1 to 8 Spindle Lifting Columns (See User Manual for complete details)
- Up/Down positioning with up to 3 memory positions
- Compatible with SureFrame<sup>™</sup> rails and FATH <sup>®</sup> hardware/accessories
- Up to 1320lb weight capacity (using 4 Spindle Lifting Columns)
- Can be combined with multiple kits and linked for larger workspaces
- Spindle Lifting Legs Housing Material: Extruded Aluminum with clear anodize finish
- Spindle Lifting Legs have 2 extruded T-slot features, slot size 8\*\*
- For use indoors in dry, non-explosive environments.
- Ambient temperature is between +10°C [50°F] and +40°C [104°F].
  - Relative humidity range is between 30 % and 70 % (not condensed)
- The maximum continuous operating time is 2 minutes.\*\*\*
- · Versatile linear guide rail with internal drive unit
- Compressive force per lifting element 1500 N
- Tensile force per lifting element 1500 N
- Lifting speed: 9 mm/s [0.35in/s]
- Noise Level: <60 dBA
- Mb stat. = 200 Nm

-

- Mb dyn. = 80 Nm
- Product Life: 5000 cycles
- Integrated Tilt Sensing: >2.5° inclination change STOPS lifting movement
- Required Input Power: 110 VAC, 60Hz, single phase
- \*\* Slots are shallower than most SureFrame profile slots. Please verify dimensions carefully before committing to design details.

\*\*\*When this does occur the system will become inoperable for 18 minutes to allow cooldown of the motor drive components





**Ergoswiss Lift System** 

#### **Custom Workstations**

Ergoswiss lift systems work hand-inhand with SureFrame T-slot rails and FATH accessories. You can combine the two products to build custom workstations to fit your specific needs.\*

#### **Recommended Parts**

- 15 Series <u>PDF</u>
- 40 Series PDF

To the right is an example of a desk frame built with Ergoswiss, SureFrame, and FATH parts.



#### Build an Ergonomic Table with SureFrame, FATH, and ErgoSwiss

**Fully Retracted** 

- 1. Determine table top dimensions (Not sold by ADC)  $\sim 0.060\% \times 10^{10}$  x 1%
- e.g. 60" x 30" x 1"
- 2. Determine desired table top overhang - e.g. 1.5"
- 3. Calculate SureFrame cross member lengths
- e.g. CM<sub>Long</sub> = TT<sub>Length</sub> 2 (Overhang) 2 (45mm, ErgoSwiss leg width) = 60" 2 (1.5") 2 (45mm) = 53.46"
- e.g. CM<sub>Short</sub> = TT<sub>Width</sub> 2 (Overhang) 2 (45mm, ErgoSwiss leg width) = 30" 2 (1.5") 2 (45mm) = 23.46"
- 4. Choose desired FATH accessories for attaching the table top, cable management, shelving, etc.

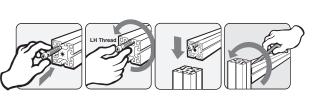
#### Recommended part for attaching SureFrame to Spindle Column:

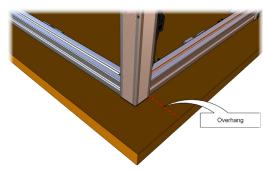


**Duo Connector (10 pack)** 

\$23.50

151102





Length

**Fully Extended** 

Width



\*PLEASE NOTE: Some FATH accessories are not directly compatible with Ergoswiss channels. Please check dimensional drawings to ensure proper fit. For example, FATH rollin nuts do NOT fit the T-slot on the Spindle Column. Hammer nuts and Economy nuts, however, do fit.



## Ergoswiss 300mm [11.8 in] Lift System

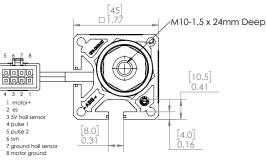
Ergoswiss 300mm [11.8 in] Lift Kit													
Part Number	Price	Stroke	ce Capacity		Includ	es	Image						
	11100	Length	oupaony	Qty	Description	Part Number	mayc						
				4	Spindle lifting columns	907.02003-PP000001							
		\$1,955.00 300mm [11.8 in]									1	Control box <u>124.43801-PP000001</u>	
<u>907.42236-PP000001</u>	\$1,955.00			4	Leveling feet	113.00006-PP000004							
					1	SCT memory module	124.00281-PP000001						
		1	Power cable	124.00145-PP000001									

Hardware Included: (5) M3.5 x 20mm and (6) M5.5 x 25mm Phillips Round Head Screws

#### Features

- Protection class (DIN EN 60529): IP20
- Lifting speed: 9 mm/s (0.35 in/s)
- Voltage: 24V
- Electrical connection: Molex MiniFit plug 8-Pin, Cable length 2m (6.5')
- Can be extended up to 6m (20').

Dimensions shown as: [mm] in



Spindle Lifting Column										
Part Number	Price	Stroke Length	Capacity	Image	Drawing Link					
<u>907.02003-PP000001</u>	\$575.00	300mm [11.8 in]	330 lbs/150 kg		PDF					

Control Box										
Part Number	Price	Description	For use with	Image	Drawing Link					
<u>124.43801-PP000001</u>	\$450.00	Ergoswiss SQ series control box, 110 VAC nominal input, 24 VAC, IP20.	ONLY works with up to (4) 300mm Spindle Lifting Columns (PN: <u>907.02003-PP000001)</u>		PDF					

Hardware Included: (3) M3.5 x 20mm Phillips Round Head Screws



## Ergoswiss 400mm [15.7 in] Lift System

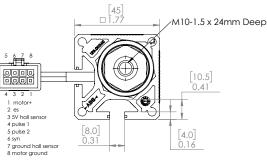
Ergoswiss 400mm [15.7 in] Lift Kit													
Part Number	Price	Stroke	Capacity		Includ	es	Image						
	11100	Length	oupdony	Qty	Description	Part Number	iniago						
				4	Spindle lifting columns	907.02004-PP000001							
		\$1,995.00 400mm [15.7 in]								1	Control box	<u>124.43800-PP000001</u>	
<u>907.42237-PP000001</u>	\$1,995.00		1320 lbs/600 kg		4	Leveling feet	113.00006-PP000004						
		-					1	SCT memory module	124.00281-PP000001				
		1	Power cable	124.00145-PP000001									

Hardware Included: (5) M3.5 x 20mm and (6) M5.5 x 25mm Phillips Round Head Screws

#### Features

- Protection class (DIN EN 60529): IP20
- Lifting speed: 9 mm/s (0.35 in/s)
- Voltage: 24V
- Electrical connection: Molex MiniFit plug 8-Pin, Cable length 2m (6.5')
- Can be extended up to 6m (20').

Dimensions shown as: [mm] in



Spindle Lifting Column											
Part Number	Price	Stroke Length	Capacity	Image	Drawing Link						
<u>907.02004-PP000001</u>	\$600.00	400mm [15.7 in]	330 lbs/150 kg		PDF						

Control Box										
Part Number	Price	Description	For use with	Image	Drawing Link					
<u>124.43800-PP000001</u>	\$450.00	Ergoswiss SQ series control box, 110 VAC nominal input, 24 VAC, IP20.	ONLY works with up to (4) 400mm Spindle Lifting Columns (PN: <u>907.02004-PP000001)</u>		PDF					

Hardware Included: (3) M3.5 x 20mm Phillips Round Head Screws



## **Ergoswiss Lift System Universal Accessories**

#### Features

- Electrical connection: RJ12 plug 6-Pin
- Cable length 2m (6.5')
- Protection class (DIN EN 60529): IP 30
- The cable can be extended up to 3m [9.8ft]

SCT Memory Module									
Part Number	Price	Description	Image	Drawing Link					
<u>124.00281-PP000001</u>	\$90.00	Ergoswiss SQ series SCT memory module, manual switch, IP30. (1) 6.5ft/2m power cable included. Saves (3) intermediate positions in addition to up and down function.	and the	PDF					

Hardware Included: (2) M3.5 x 20mm Phillips Round Head Screws

Leveling Foot										
Part Number	Price	Description	Image	Drawing Link						
<u>113.00006-PP000004</u>	\$40.00	Ergoswiss SQ series leveling foot, package of 4. (M10-1.5 x 25mm)		PDF						

		SQ Series	s Cables		
Part Number	Price	Cable Type	Cable Length	Image	Package Qty
<u>124.00137-PP000002</u>	\$55.00	Motor Extension Cable	3.9ft/1.2m		2
<u>124.00145-PP000001</u>	\$20.00	Power Cable	9.8ft/3m		1
<u>124.00183-PP000001</u>	\$45.00	Sync Cable	13.1ft/4m		1