

frame® Aluminum T-Slotted Rail

40 Series Metric T-Slotted Aluminum Rail

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

- Cut to length in 0.01 cm increments
- Minimum cut length: 15.24 cm
- Maximum cut length: 228.0 cm
- Cut accuracy: +/- 0.015 cm [0.15mm]
- Corrosion and UV resistant



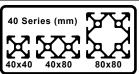
Properties							
Material	Aluminum 6063-T6						
Finish	Clear or Black Anodize						
Hardness	Webster Model B 11-12						
Straightness	0.0125 inch/ft [1.042 mm/m]						
Twist	0.25°/ft [0.25°/305mm]						



40 Series (metric)



Core Hole Ø 6.8 mm





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

	Biop 200K											
Part Number	Part Image	Price per cm	Profile Size	Weight Class	Weight lbs/ft [kg/m]	Moment of Inertia Lx (in ⁴ [cm ⁴])	Moment of Inertia Ly (in ⁴ [cm ⁴])	Drawing Link				
40-4040C		\$0.26	40 x 40mm	Standard	1.624 [2.417]	0.324 [13.478]	0.324 [13.478]	<u>PDF</u>				
<u>40-4040B</u>	H	\$0.40						PDF				
40-4040CL		\$0.21				0.219 [9.110]	0.219 [9.110]	PDF				
40-4040BL	E	\$0.31		Light	1.170 [1.741]			PDF				

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

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







Please Note: Prices on aluminum are closely tied to the market price. This allows us to offer the best savings possible if conditions are favorable; however, it also means that our prices may increase if market conditions warrant.



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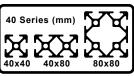
Properties							
Material	Aluminum 6063-T6						
Finish	Clear or Black Anodize						
Hardness	Webster Model B 11-12						
Straightness	0.0125 inch/ft [1.042 mm/m]						
Twist	0.25°/ft [0.25°/305mm]						



40 Series (metric) - Continued



Core Hole Ø 6.8 mm





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

Part Number	Part Image	Price per cm	Profile Size	Weight Class	Weight lbs/ft [kg/m]	Moment of Inertia Lx (in ⁴ [cm ⁴])	Moment of Inertia Ly (in ⁴ [cm ⁴])	Drawing Link				
40-4080C		\$0.47		Standard	2.925 [4.353]	.0621 [25.834]	2.846 [118.477]	<u>PDF</u>				
40-4080B	THE PERSON NAMED IN COLUMN TO PERSON NAMED I	\$0.69	40 x 80mm					PDF				
40-4080CL	100	\$0.41		Light	2.482 [3.694]	0.495 [20.592]	1.760 [73.258]	PDF				
40-4080BL	FOR	\$0.59						PDF				
40-8080C	is a d	\$0.68	00.00	Standard	4.281 [6.371]	4.073 [169.520]	4.073 [169.520]	<u>PDF</u>				
40-8080B	of the second	\$0.95	80 x 80mm					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







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29,007 psi [200 MPa]

33,359 psi [230 MPa]

10,000,000 psi [68.9 GPa]

Aluminum 6063-T6 Properties



frame® Aluminum T-Slotted Rail

Deflection Calculations

Using the calculations below, find your approximate deflection* for a specific extrusion. See table below for variations.

As always when calculating, use diligence and work only in either imperial or metric units at one time.

"E" = Modulus of Elasticity

"F" = Force

"I" = Moment of Inertia

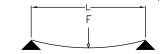
"L" = Length

"W" = Weight

*for reference only

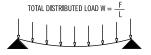
Supported Loads

CONCENTRATED LOAD AT CENTER (simply supported)



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

UNIFORMLY DISTRIBUTED LOAD (simply supported)



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

CONCENTRATED LOAD AT CENTER (between fixed supports)



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)

Yield Strength

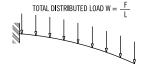
Tensile Strength

Modulus of Elasticity



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

UNIFORMLY DISTRIBUTED LOAD (simply supported)



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

T-Slot Nuts

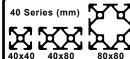
- Designed to fit into the T-slot cavity of extruded aluminum rails.
- Hammer nuts provide safe electrostatic discharging (ESD) connection.
- No machining required.
- · Material: zinc plated steel

	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			0								
	Hammer Nut		No	Yes								
3	Slide-In Nut											
TO THE REAL PROPERTY.	Roll-In Nut with Leaf Spring		V	No								
	Roll-In Nut with Spring Loaded Ball		Yes									



40 Series T-Slot Nuts

its 8

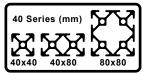


40X40 40X80 80X80												
Part Number	Part Image	Price	Nut Type	Thread Size	Pack Quantity	Drawing Link						
<u>161126</u>		\$8.25	Hammer Nut			<u>PDF</u>						
<u>162996</u>	a c	\$17.50	Roll-In Nut	10-32 UNF		<u>PDF</u>						
<u>162903</u>	0	\$9.00	Slide-In Nut		10	<u>PDF</u>						
<u>151097</u>	-	\$9.50	Hammer Nut			<u>PDF</u>						
<u>151098</u>	4	\$20.00	Dall to Net	1/4-20 UNC		<u>PDF</u>						
<u>162997</u>		\$17.50	Roll-In Nut			PDF						

T-Slot Nuts - Continued

40 Series T-Slot Nuts - Continued

Fits 8



Part Number	Part Image	Price	40x40 40x80 8	Thread Size	Pack Quantity	Drawing Link
162904	Turimage	\$9.00	Slide-In Nut	1/4-20 UNC	r aux Quantity	PDF
<u>151099</u>		\$20.00	Dall la Nut	F/4C 40 UNIO		PDF
162998	100	\$17.50	Roll-In Nut	5/16-18 UNC		PDF
<u>161129</u>	(e)	\$8.00	Hammer Nut	M4-0.7		PDF
<u>162999</u>	ALL CONTRACTOR OF THE PARTY OF	\$17.50	Roll-In Nut	IVI+-U.1		<u>PDF</u>
<u>161130</u>		\$8.00	Hammer Nut		10	<u>PDF</u>
<u>161120</u>	U	\$16.75	Roll-In Nut	M5-0.8		<u>PDF</u>
<u>163000</u>	(Ta)	\$17.50	Non-III Nut			PDF
<u>151214</u>		\$9.00	Hammer Nut			PDF
<u>162884</u>		\$9.75	Slide-In Nut	M6-1.0		PDF
<u>151215</u>		\$19.00	Roll-In Nut	IVIO-1.U		PDF
<u>163001</u>		\$17.50	Non-III IVUL			<u>PDF</u>

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tATR-94

FATH® T-Slotted Rail Accessories

T-Slot Nuts - Continued

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

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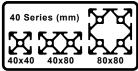
Fasteners

- 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 8



40440 40000											
Part Number	Part Image	Price	Thread	Screw Length	Head Type	Color	Pack Quantity	Drawing Link			
<u>162994</u>	8	\$8.00	#8-32 UNF	3/8 in	Button head socket cap screw			<u>PDF</u>			
<u>161073</u>	Own	\$7.75	#0-32 OW	1/2 in	Flat head socket cap screw		10	<u>PDF</u>			
<u>162993</u>	Com	\$7.50		3/8 in	Button head socket cap screw			<u>PDF</u>			
<u>162995</u>	-	\$7.75		1/0 in	Socket head cap screw			PDF			
<u>161046</u>		\$4.75	#10-32 UNF	1/2 in		Flat black		<u>PDF</u>			
<u>161047</u>	0	\$5.00		5/8 in	Button head socket cap screw			PDF			
<u>161048</u>		\$5.75		3/4 in				PDF			
<u>161074</u>	Co	\$6.25			Flat head socket cap screw			PDF			
<u>151040</u>	0	\$4.25		1/2 in	Button head socket cap screw			PDF			
<u>151041</u>	0	\$5.25			Flanged button head socket cap screw	Gloss black		<u>PDF</u>			
<u>161049</u>	0	\$4.50	1/4-20 UNC	9/16 in	Button head socket cap screw			PDF			
<u>161075</u>	0	\$6.25			Flat head socket cap screw	Elet block		PDF			
<u>161050</u>	4	\$4.75		5/8 in	Button head socket cap screw	Flat black		PDF			
<u>161087</u>		\$4.00			Socket head cap screw			<u>PDF</u>			

Fasteners - Continued

40 Series Fasteners - Continued 40x80 Part Number Part Image Price Thread Screw Length Head Type Color Pack Quantity **Drawing Link** <u>161051</u> \$4.75 3/4 in <u>PDF</u> 1/4-20 UNC 161052 \$5.25 Button head socket cap screw Flat black PDF 1in <u>151100</u> \$5.25 5/8 in PDF Flanged button head socket cap 11/16 in Gloss black <u>151101</u> \$6.00 <u>PDF</u> screw

\$5.75 5/16-18 UNC <u>161053</u> 1/2 in <u>PDF</u> 161054 \$6.50 3/4 in Button head socket cap screw Flat black **PDF** <u>161055</u> \$7.50 <u>PDF</u> 1in 161088 \$2.25 8mm 10 **PDF** Socket head cap screw 161089 \$2.50 PDF 10mm M4-0.7 <u>161056</u> \$1.00 Button head socket cap screw <u>PDF</u> <u>161076</u> \$1.50 12mm PDF Flat head socket cap screw Bright zinc <u>161057</u> \$1.25 Button head socket cap screw PDF 10mm <u>161090</u> \$2.50 Socket head cap screw <u>PDF</u> M5-0.8 \$1.75 <u>161077</u> Flat head socket cap screw PDF 12mm

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\$2.50

161091

Socket head cap screw

PDF

Fasteners - Continued

Fasteners - Continued												
40 Series Fasteners - Continued												
Fits Slot Size 40 Series (mm) 40 Series (mm) 80x80												
Part Number	Part Image	Price	Thread	Screw Length	Head Type	Color	Pack Quantity	Drawing Link				
<u>161058</u>		\$1.75	M5-0.8	12mm	Button head socket cap screw			<u>PDF</u>				
161092	8)	\$2.50		10mm	Socket head cap screw			PDF				
<u>161078</u>		\$2.25			Flat head socket cap screw			PDF				
<u>161059</u>	2	\$2.00		12mm	Button head socket cap screw			PDF				
<u>161093</u>		\$2.75			Socket head cap screw			PDF				

Fasteners - Continued

			40 Seri	es Fastene	ers - Continued								
	Fits Slot Size 40 Series (mm) 40 Series (mm) 80x80												
Part Number	Part Image	Price	Thread	Screw Length	Head Type	Color	Pack Quantity	Drawing Link					
<u>161097</u>	9	\$3.25	- M6-1.0	20mm	Socket head cap screw			PDF					
<u>161064</u>	3	\$3.25	WIO-1.U	25mm	Button head socket cap screw		10	PDF					
161082		\$4.75			Flat head socket cap screw			PDF					
<u>161065</u>	2	\$4.25		12mm	Button head socket cap screw			PDF					
<u>161098</u>	0	\$4.75			Socket head cap screw	Bright zinc		PDF					
<u>161066</u>	8	\$4.50		14mm	Button head socket cap screw			PDF					
161083	9	\$5.00			Flat head socket cap screw			PDF					
<u>161099</u>	2	\$5.00			Socket head cap screw			PDF					
<u>161084</u>	0	\$5.50	M8-1.25		Flat head socket cap screw			PDF					
<u>161100</u>	9	\$5.50			Socket head cap screw			PDF					
<u>161067</u>	8	\$4.50		16mm	Dutton hand no list see see			PDF					
<u>151183</u>	6	\$4.75			Button head socket cap screw	Class blast		PDF					
<u>151184</u>	0	\$5.50			Flanged button head socket cap screw	Gloss black		PDF					
<u>161085</u>	9	\$5.50			Flat head socket cap screw			<u>PDF</u>					

18mm

Button head socket cap screw

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\$5.00

<u>161068</u>

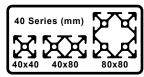
Bright zinc

PDF

Fasteners - Continued

40 Series Fasteners - Continued



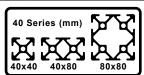


Part Number	Part Image	Price	Thread	Screw Length	Head Type	Color	Pack Quantity	Drawing Link
<u>161101</u>	0	\$5.50		18mm	Socket head cap screw		10	PDF
<u>151241</u>	3	\$4.50	M8-1.25	20mm -	Button head socket cap screw			<u>PDF</u>
<u>161102</u>	0	\$5.75			Socket head cap screw			PDF
<u>161086</u>	Com	\$7.00		25mm -	Flat head socket cap screw	Bright zinc		PDF
<u>161069</u>		\$5.25			Button head socket cap screw			PDF
<u>161070</u>	Ø	\$8.00		40mm				PDF
118287	9	\$2.50		25mm	Hammer head screw and flange nut		1	<u>PDF</u>

40 Series Self Forming / Tapping Screws

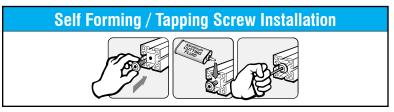
Fits





Works with Aluminum with hole diameter 0.256" - 0.276" [6.6 - 7.0 mm]

Part Number	Part Image	Price	Thread	Screw Length	Head Type	Color	Pack Quantity	Drawing Link
<u>161105</u>	0	\$17.00	S 7	25mm -	Self-Tapping Screw Button head socket cap	 Bright zinc	10	<u>PDF</u>
<u>161106</u>	8	\$9.25			Self-Tapping Screw Flanged button head socket cap T-40 Torx			<u>PDF</u>
161107	0	\$17.00		40mm	Self-Tapping Screw Button head socket cap			PDF



Connecting Components

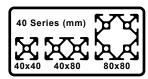
- Connects two or three T-slot rails together
- Recommended ADC Fastener based on part feature, slot Depth and core hole
- Material: varies by part



40 Series Connecting Components

Fits



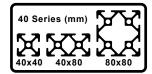


						Fastener (ADC					
Part Number	Part Image	Price	Description	Fits Profile	Material	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	Drawing Link		
<u>148958</u>	60	\$10.00	2d Cube				10100-		<u>PDF</u>		
<u>166369</u>		\$12.00	2d Cube Connector				<u>161085</u>		PDF		
<u>148959</u>	60	\$11.00	3d Cube	40 x 40mm				1	PDF		
<u>166370</u>		\$13.00	Connector		Die-cast aluminum	<u>161105</u>	<u>n/a</u>		PDF		
<u>151217</u>	101	\$13.00					161067		PDF		
<u>166371</u>	101	\$16.00					101007		PDF		
<u>151218</u>	1.7.1	\$12.75	Angle Connector	40.00			404000		<u>PDF</u>		
166372	10101	\$16.00		40 x 80mm			<u>161068</u>		PDF		
*T-Slot Nut 3 als	Slot Nut 3 also required.										

Connecting Components - Continued

40 Series Connecting Components - Continued

Fits 8

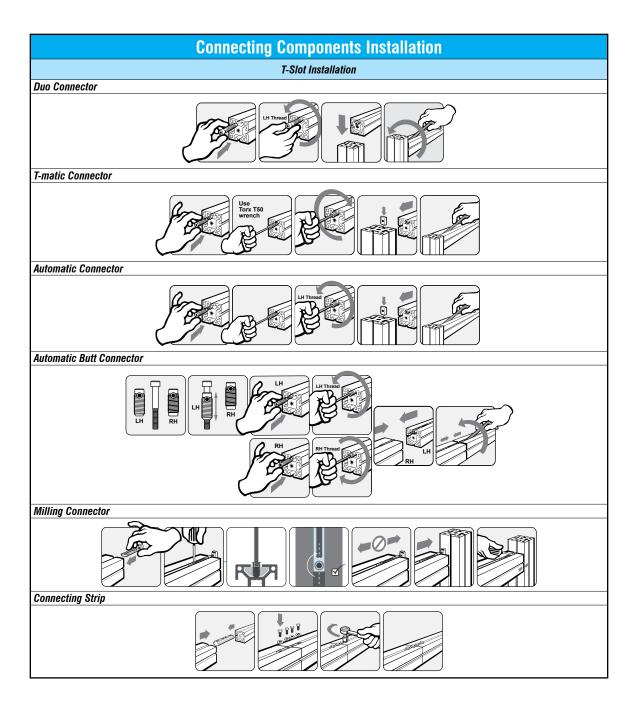


							nded Screw C Part Number)		
Part Number	Part Image	Price	Description	Fits Profile	Material	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	Drawing Link
<u>151102</u>		\$23.50	Duo Connector		Steel				<u>PDF</u>
<u>151103</u>	O. F.	\$96.00	T-Matic Connector		Zinc plated steel			10	PDF
<u>151104</u>	W B	\$59.00	Automatic Connector		0		n/a		<u>PDF</u>
<u>151105</u>		\$9.50	Automatic Butt Connector		Steel	n/a			<u>PDF</u>
<u>151106</u>	1	\$8.50	Milling Connector		Zinc plated				PDF
<u>151109</u>	0 0 0	\$15.50	Connecting Strip	All 40 Series	steel				<u>PDF</u>
<u>162891</u>		\$13.00	Direct Connector		Steel		Fasteners included		<u>PDF</u>
<u>162961</u>	6	\$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 162976		Die-cast zinc	161105 (2) included with kit	n/a		PDF
<u>162976</u>	*	\$5.50	Mounting Element works with 162975		Steel	n/a	Fasteners included		<u>PDF</u>
<u>163009</u>	10	\$13.25	Screw Connector		Zinc plated steel	Designer's choice	n/a	10	<u>PDF</u>
*T-Slot Nut also requ	ired.	<u> </u>	1	L	1	1	1	1	L

Connecting Components - Continued

Connecting Comp	onents Installation
Core Hole Installation	T-Slot Installation
2D Cube Connector	
3D Cube Connector	
3D Cube Connector	
	n/a
Angle Connector	
Screw Connector	
Screw Connector	
Without Comments	
Miter Connector	
Direct Connector	
The state of the s	
Clamp Profile Connector	
62975 O Hand lighten position tastener	e to desired n and tighten secure

Connecting Components - Continued



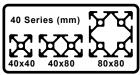
Joining Plates

- 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

its [8]



			40x40 40x80	80x80		
Part Number	Part Image	Price	Description	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Pack Quantity	Drawing Link
<u>148850</u>	2 3	\$5.75				<u>PDF</u>
<u>166373</u>	100	\$7.00				<u>PDF</u>
<u>162986</u>	2.3.3	\$8.00				<u>PDF</u>
<u>166374</u>	1200	\$11.00	Straight Flat Plate			<u>PDF</u>
<u>148856</u>		\$12.00				PDF
<u>166375</u>	2000	\$14.00				<u>PDF</u>
148853		\$11.50	Square Flat Plate	<u>151183</u> or <u>151184</u>	1	<u>PDF</u>
<u>166376</u>		\$14.00	Square rial Flate			<u>PDF</u>
<u>148858</u>		\$12.00	Rectangular Flat Plate			PDF
<u>166377</u>		\$15.00	Rectangular Flat Flate			<u>PDF</u>
<u>151219</u>		\$14.50	Flat Plate			<u>PDF</u>
<u>166378</u>		\$17.00	i iai Fiale			<u>PDF</u>
*T-Slot Nut also requir	ed.					

Joining Plates - Continued

	40 Series Joining Plates - Cont'd										
Fits Slot Size 40 Series (mm) 40 Series (mm) 40 Series (mm) 80 X 80											
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-Shaped Flat Plate			<u>PDF</u>					
<u>166379</u>	4	\$21.00	1-Shapeu Hat Flate	<u>151183</u> or 1 <u>51184</u>	1	<u>PDF</u>					
151221		\$27.50	T-Shaped Flat Plate			<u>PDF</u>					
<u>166380</u>		\$34.00	1-Shapeu Flat Plate			<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

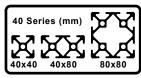






40 Series Brackets





					Screw Fastener t Number)							
Part Number	Part Image	Price	Description	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	Material	Drawing Link				
<u>151125</u>		\$7.75			<u>151241</u>		Die-cast	<u>PDF</u>				
166322		\$9.00	Angle Bracket		161068 n/a		aluminum	<u>PDF</u>				
<u>151126</u>		\$11.50	Aligie blacket				Die-cast zinc	<u>PDF</u>				
<u>166323</u>	pla -	\$13.00						<u>PDF</u>				
<u>151222</u>		\$4.25	Inside Corner Bracket				Anodized aluminum	<u>PDF</u>				
<u>166381</u>		\$5.00	Inside Comei Diacket	n/a		1		<u>PDF</u>				
<u>151223</u>		\$6.25	Wide Inside Corner					PDF				
<u>166382</u>		\$7.00	Bracket		<u>151183</u> or <u>151184</u>			PDF				
<u>151224</u>	E.	\$6.25	Tall Inside Corner					PDF				
<u>166383</u>		\$7.00	Bracket					PDF				
<u>151225</u>		\$11.50	Inside Corner Bracket					<u>PDF</u>				
<u>166384</u>		\$14.00	IIISIUE COMET BRACKET					PDF				
*T-Slot Nut also re	equired.											

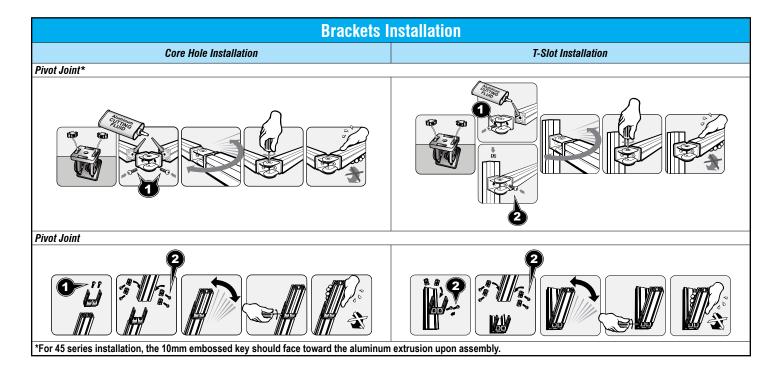
Brackets - Continued

40 Series Brackets - Cont'd Fits Slot Size 40 x40 40x80 80x80

					Screw Fastener t Number)			
Part Number	Part Image	Price	Description	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	Material	Drawing Link
<u>151226</u>	O.	\$3.75	Gusseted Inside					<u>PDF</u>
<u>166385</u>	0.3	\$4.00	Corner Bracket					<u>PDF</u>
<u>151227</u>	Ca	\$9.00	Tall Gusseted Inside					PDF
<u>166386</u>	20	\$11.00	Corner Bracket					PDF
<u>148911</u>	0	\$6.75	Wide Gusseted Inside	n/a	<u>151183</u> or <u>151184</u>	1		PDF
<u>166387</u>	•	\$8.00	Corner Bracket					<u>PDF</u>
<u>151228</u>	00	\$14.50	Gusseted Inside					PDF
<u>166388</u>	2 00	\$17.00	Corner Bracket					<u>PDF</u>
<u>151229</u>	56	\$29.50	- Pivot Joint					PDF
<u>166389</u>	HO	\$36.00	T Wet count	<u>161105</u>	161066		Die-cast zinc	<u>PDF</u>
<u>151230</u>		\$39.50	Pivot Joint With		.51000		210 0000 21110	PDF
<u>166390</u>	de.	\$47.00	Locking Handle					PDF
*T-Slot Nut also re	equired.							

Brackets - Continued

	40 Series Brackets - Continued											
	Fits Slot Size 40 Series (mm) 40 x80 80x80											
				Recommended (ADC Part	t Number)							
Part Number	Part Image	Price	Description	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	Material	Drawing Link				
<u>163015</u>	1	\$31.25	1-Slot Pivot Joint	<u> 161105</u>	161068	1	Die-cast zinc/die-cast aluminum/ nylon	PDF				
<u>163018</u>		\$41.00	2-Slot Pivot Joint	191100	101000	1		<u>PDF</u>				
*T-Slot Nut also re	T-Slot Nut also required.											



Bases

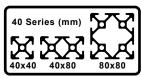
- Recommended ADC Fastener based on part features and extrusion core hole
- Material: varies by part





40 Series Bases





						Load	Recommended (ADC Part				
Part Number	Part Image	Price	Diameter	Description	Fits	Rating kg [lb]	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	Material	Drawing Link
<u>151232</u>	***	\$16.50		M12-1.75	40 x 80mm		161105 (2) included with kit				<u>PDF</u>
<u>151233</u>	•	\$23.00		Transport/Base Plate 80 x 80mm 40 x 80mm M16-2.0 Transport/Base Plate		161105 (4) included with kit	-		Die-cast zinc	<u>PDF</u>	
<u>162948</u>	0	\$20.00			n/a	161105 (2) included with kit				<u>PDF</u>	
<u>162949</u>	1	\$25.00			90 v 90mm	80 x 80mm	161105 (4) included with kit	d	a/a 1	_	<u>PDF</u>
<u>162950</u>	6	\$25.00	n/a	M20-2.5 Transport/Base Plate	OU X OUIIIII						<u>PDF</u>
<u>151231</u>		\$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]**		n/a			PDF
<u>162938</u>	388	\$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]		a		Zinc plated steel	<u>PDF</u>
<u>162939</u>	3E	\$11.00		M20-2.5 x 150mm Swivel	Transport/Base Plate 162950	2430 [5357]	n/a				<u>PDF</u>
<u>151068</u>	6	\$4.00	1.57 in	Swivel Base With Apti Slip	Any 15mm ball	900 [1984]				Nylon	<u>PDF</u>
<u>151071</u>		\$9.50	[39.0 mm]	Plate	Threaded Rod	3000 [6614]				Die-cast zinc	<u>PDF</u>

^{*}T-Slot Nut also required.

Example:

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

^{**}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.

Bases - Continued

40 Series Bases - Continued

						Load	Recommended (ADC Part	Screw Fastener Number)			
Part Number	Part Image	Price	Diameter	Description	Fits	Rating kg [lb]	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	Material	Drawing Link
<u>151069</u>		\$6.00	3.11 in			900 [1984]					PDF
<u>151070</u>		\$6.00	[79.0 mm]			900 [1904]		n/a	1	Nylon -	PDF
<u>151255</u>		\$10.00		Swivel Base With	Any 15mm ball						PDF
<u>151256</u>		\$10.00	3.90 in	Anti-Slip Plate	Threaded Rod	900 [1984]					PDF
<u>151257</u>		\$24.00	[99.0 mm]			3500 [7716]	 - -				PDF
<u>151258</u>		\$24.00				3500 [7710]				zinc	PDF
<u>162933</u>		\$12.50	See 2D	Extended Swivel	Any 15mm ball	1000 [2204]		n/a		Nylon	PDF
<u>162934</u>		\$27.00	drawing	Base	Threaded Rod	3000 [6613]		n/a		Die-cast zinc	PDF

^{*}T-Slot Nut also required.

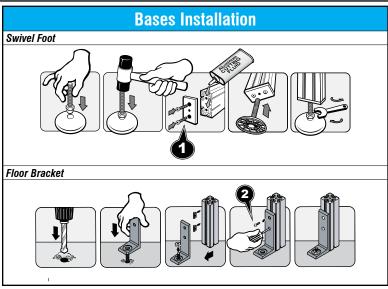
Load rating of a swivel foot assembly is based on the part with the lowest load rating, typically the threaded rod. Example:

Threaded rod load rating = 210kg [463lb]

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

Bases - Continued

				40 Ser	ies Bases	- Conti	nued						
	Fits	Slot S		40 40x		\$\frac{1}{2} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\							
							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>162889</u>	A	\$24.50			40 x 40mm,						<u>PDF</u>		
<u>166391</u>	A	\$33.00		Foot Console	40 x 80mm	n/a	n/a	<u>161068</u>	1	Die-cast aluminum	<u>PDF</u>		
<u>162890</u>	A	\$25.50	n/a								PDF		
<u>166392</u>	A	\$35.00	11/4		40 x 80mm, 80 x 80mm	40 x 80mm, 80 x 80mm	40 x 80mm, 80 x 80mm	TI/G	170		'		PDF
<u>162960</u>		\$47.00		Support Bracket				M8-1.25 x 30mm (not sold by ADC)			<u>PDF</u>		
162958		\$11.50		Floor Bracket	All 40 Series			161068		Anodized aluminum	PDF		
*T-Slot Nut als	o required.												



www.automationdirect.com Aluminum T-Slotted Rail tATR-111

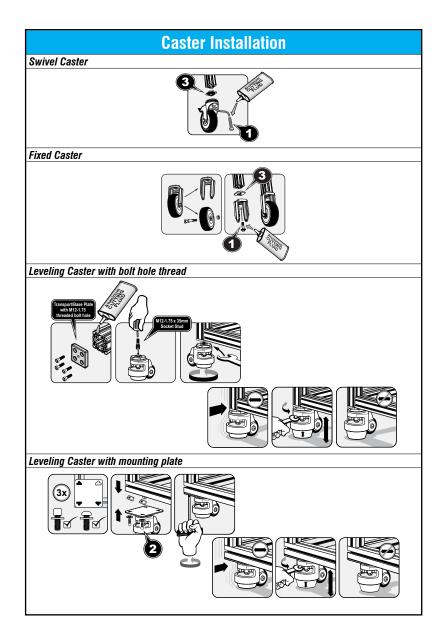
Casters

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

40 Series Casters 40 Series (mm) 40 Series (mm) 40 Series (mm) 80 Series (mm)

						, 			ı	
						Recommended (ADC Part	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>151134</u>	8	\$47.00	Swivel Caster (requires Swivel Caster Adapter Plate 151136)	.	122 [269]	<u>161107</u>			Thermoplastic polyurethane/	PDF
<u>151135</u>	5	\$40.50	Fixed Caster (requires Fixed Fixed Caster Adapter Plate 161040)	n/a	122 [200]	<u>161106</u>	n/a		nylon/steel	<u>PDF</u>
<u>151136</u>	(2)	\$4.50	Swivel Caster Adapter Plate	Requires Swivel Caster <u>151134</u>)	n/a				Steel	<u>PDF</u>
<u>161040</u>	50.	\$3.25	Fixed Fixed Caster Adapter Plate	Requires Fixed Caster <u>151135</u>	II/a				Die-cast zinc	<u>PDF</u>
<u>151137</u>	5	\$62.00	Swivel Caster	n/a	122 [269]		161053		Thermoplastic polyurethane/	<u>PDF</u>
<u>151138</u>		\$49.00	Fixed Caster	1110	122 [203]		10.000	1	nylon/steel	<u>PDF</u>
<u>163010</u>		\$40.00		Transport / Base Plate with	250 [551]	n/a	n/a			PDF
<u>163011</u>		\$52.00	Loyalina Costor	M12-1.75 threaded hole	500 [1102]		n/a		Die-cast aluminum/	PDF
163012	3	\$41.00	Leveling Caster		250 [551]		161000		steel/nylon/ rubber	PDF
<u>163013</u>		\$56.00		n/a	500 [1102]		<u>161060</u>			PDF
*T-Slot Nut also	required									

Casters - Continued

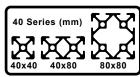


Hinges

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



40 Series Hinges



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>	S	\$12.50	Non-Detachable Combination Hinge With Locking Lever	<u>161080</u>	1		PDF				
<u>151143</u>		\$18.00	Left-Hand Detachable Combination Hinge				PDF				
<u>151144</u>	F E	\$18.00	Right-Hand Detachable Combination Hinge			Die-cast aluminum	PDF				
<u>151145</u>		\$18.00	Non-Detachable Combination Hinge				PDF				
*T-Slot Nut also req	uired										

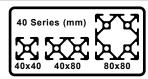
Panel and Door Elements

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



40 Series Panel and Door Elements





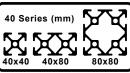
				Recommended (ADC Part	Screw Fastener t Number)			
Part Number	Part Image	Price	Description	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	Material	Drawing Link
<u>151146</u>	-	\$6.00	Bridge Handle		<u>161063</u>			<u>PDF</u>
<u>151147</u>	~	\$6.00	Bridge Haridie		<u>161067</u>			PDF
<u>151148</u>		\$6.25	Cover Cap 3		n/a	1	Fiberglass reinforced plastic	<u>PDF</u>
<u>151149</u>		\$6.50	Comfort Handle		<u>161068</u>			<u>PDF</u>
<u>151150</u>	~~	\$2.25	Cover Cap 3		n/a			PDF
<u>151151</u>		\$12.50	Comfort Handle	n/a	<u>161054</u>			<u>PDF</u>
<u>151152</u>	~~	\$3.00	Cover Cap 3		n/a			PDF
<u>151153</u>		\$33.50	Machine Handle		<u>161099</u>			<u>PDF</u>
<u>151154</u>	00	\$47.00	Compact Slam Latch				D: .	PDF
<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	<u>PDF</u>
<u>151156</u>		\$37.00	Emergency Opener	n/a	<u>161060</u>		Fiberglass reinforced plastic	<u>PDF</u>
*T-Slot Nut also requ	ired							

Panel and Door Elements - Continued

40 Series Panel and Door Elements - Continued

Fits

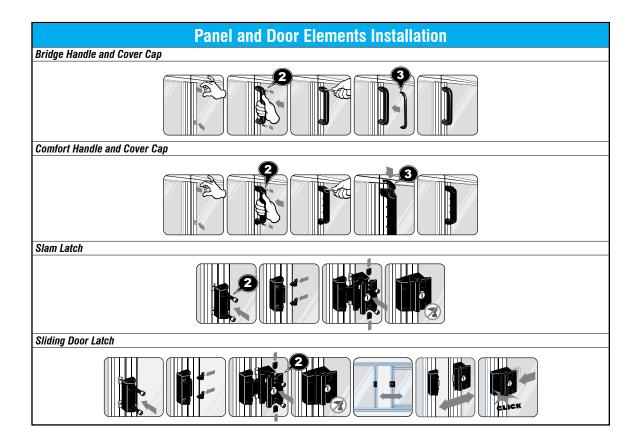




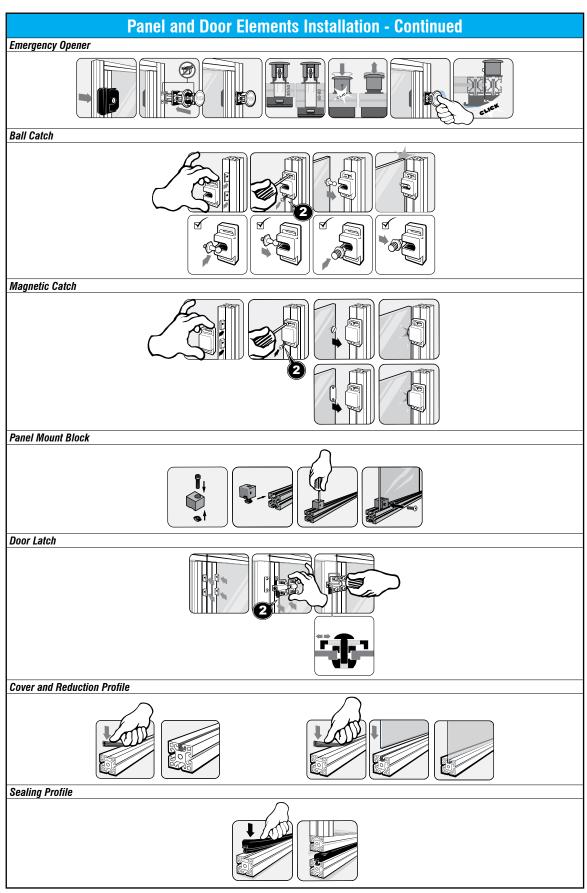
				Recommended	Screw Fastener			
Part Number	Part Image	Price	Description	Core Hole Attachment	*T-Slot Attachment	Pack Quantity	Material	Drawing Link
<u>151157</u>	1	\$7.25	Ball Catch		<u>161063</u>		Fiberglass reinforced plastic	<u>PDF</u>
<u>151158</u>	W. LIN	\$14.50	Double Ball Catch		<u>161076</u>		Brass	<u>PDF</u>
<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	<u>PDF</u>
<u>162913</u>		\$5.00	Panel Holder		161068 Fasteners included	1	Anodized	<u>PDF</u>
<u>162918</u>		\$6.00					aluminum	<u>PDF</u>
<u>162924</u>	•	\$5.75	Panel Mount Block	n/a			Lacquered aluminum	<u>PDF</u>
<u>162925</u>		\$5.75	r and mount block				Powder-coated aluminum	<u>PDF</u>
<u>162928</u>		\$500.00	Sealing Profile		n/a		Nitrile rubber	<u>PDF</u>
<u>162977</u>	dd	\$8.50	Hanger		<u>161059</u>	1	Die-cast zinc	<u>PDF</u>
<u>162978</u>		\$3.00	Panel Uni-Block		n/a	10	Nylon	<u>PDF</u>
<u>162979</u>		\$3.00	T GHEL CHIPDIOCK		IVA	10	NyIOII	<u>PDF</u>
*T-Slot Nut also requ	ired		<u> </u>					

Panel and Door Elements - Continued

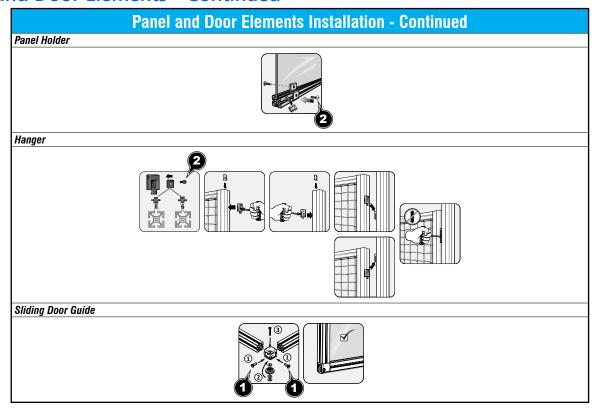
	40 Series Panel and Door Elements - Continued												
Fits Slot Size 40 Series (mm) 40 Ser													
Part Number	Part Image	Price	Description	Recommended (ADC Part Core Hole Attachment		Pack Quantity	Material	Drawing Link					
<u>151160</u>		\$56.00	Sealing Strip			2	PVC/TPE	<u>PDF</u>					
<u>151163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



Panel and Door Elements - Continued



Panel and Door Elements - Continued

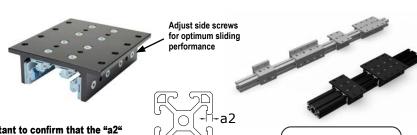


Slides and Rollers

Linear Bearings

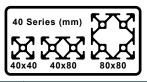
- No Shimming required!
- Verified fit with SureFrame 15 & 40 Series
- Static Load rating (Co) up to 4,000 N (900 lbf)
- Single and Double Flange Styles
- · Available in Black or Silver
- Optional Brake Assemblies

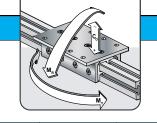
Note: Not all Slot size 8 profiles are made the same, so it is important to confirm that the "a2" dimension of the profile is 3.0-4.5mm for adequate engagement and ultimate slide performance.



40 Series Slides and Rollers

Fits 8





Part			_	Load Ratings					Drawing		
Number	Part Image	Price	Description	Fits	Quantity	Static (Co) N[lbf]	Reverse Static (-Co) N[lbf]	Roll Moment (Mr) N-m[lbf-ft]	Yaw Moment (My) N-m[lbf-ft]	Material	Link
<u>166393</u>	N	\$60.00	3-slot, double flange,			1000	500	40	150		<u>PDF</u>
<u>166394</u>	W ST	\$60.00	short linear bearing	40 x 40mm,		[225]	[112]	[29]	[111]		PDF
<u>166395</u>	THE STATE OF THE S	\$120.00	3-slot, double flange,	40 x 80mm				80	200	Aluminum/ die-cast zinc/ polyoxymethylene (POM)	PDF
<u>166396</u>	N. O	\$130.00	long linear bearing			2000	1000	[59]	[147]		PDF
<u>166397</u>	100	\$80.00	4-slot, double flange,			[450]	[225]	50	150 [111]		PDF
<u>166398</u>		\$80.00	short linear bearing	40 x 80mm,				[37]			<u>PDF</u>
<u>166399</u>	1	\$150.00	4-slot, double flange,	80 x 80mm		1 4000 [889]	2000	100	200		<u>PDF</u>
<u>166400</u>	No co	\$160.00	long linear bearing				[450]	[74]	[147]		<u>PDF</u>
<u>166401</u>		\$60.00	3-slot, single flange,				1000 500	40	150 [111}		<u>PDF</u>
166402		\$60.00	short linear bearing	. 40 x 40mm,		[225]	[112]	[29]			PDF
<u>166403</u>		\$120.00	3-slot, single flange,	80 x 80mm		2000 [450]	1000	80	200		PDF
<u>166404</u>		\$120.00	long linear bearing				[225]	[59]	[147]		PDF

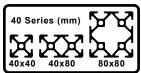
Slides and Rollers - Continued





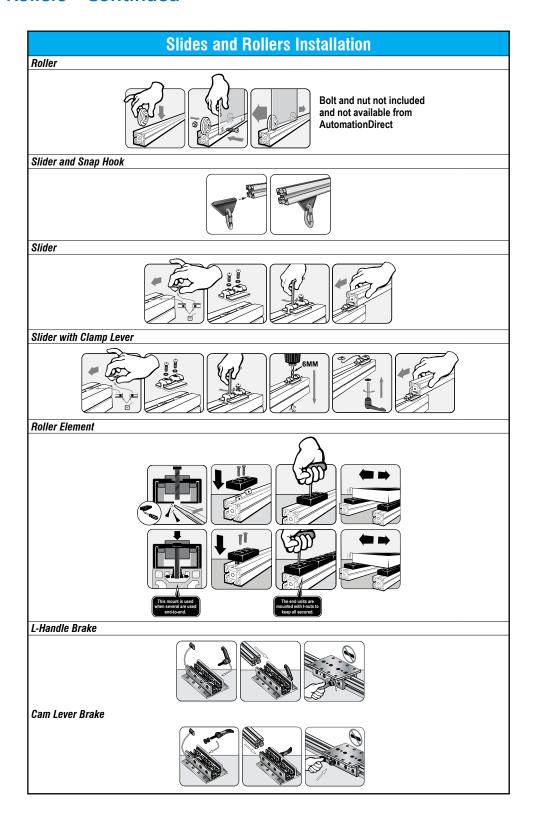
40 Series Slides and Rollers - Cont'd





			40x40	40x80 80x	80							
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 Linear		n/a	Plastic/steel	PDF				
<u>166350</u>	7	\$28.00	L-Handle Brake	Bearings		IVA	Plastic/steel	PDF				
<u>151168</u>	0.25	\$18.00	Slider				Rubber/plastic/	PDF				
<u>151169</u>	Tea and	\$36.00	Slider With Clamp Lever	n/a		Fasteners included	steel	PDF				
148974		\$9.50	Roller						1		Nylon	PDF
<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	PDF				
<u>163020</u>	7.7.1	\$13.75	Roller Element With Guide	- All 40 Series		Fasteners included	Thermoplastic polyurethane/nylon/steel	PDF				
<u>163021</u>	T. T. I	\$14.50	Roller Element Without Guide	All 40 Oches		i astericis irroducu		PDF				

Slides and Rollers - Continued



www.automationdirect.com Aluminum T-Slotted Rail tATR-122

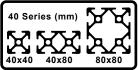
Monitor Mounts



40 Series Monitor Mounts

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

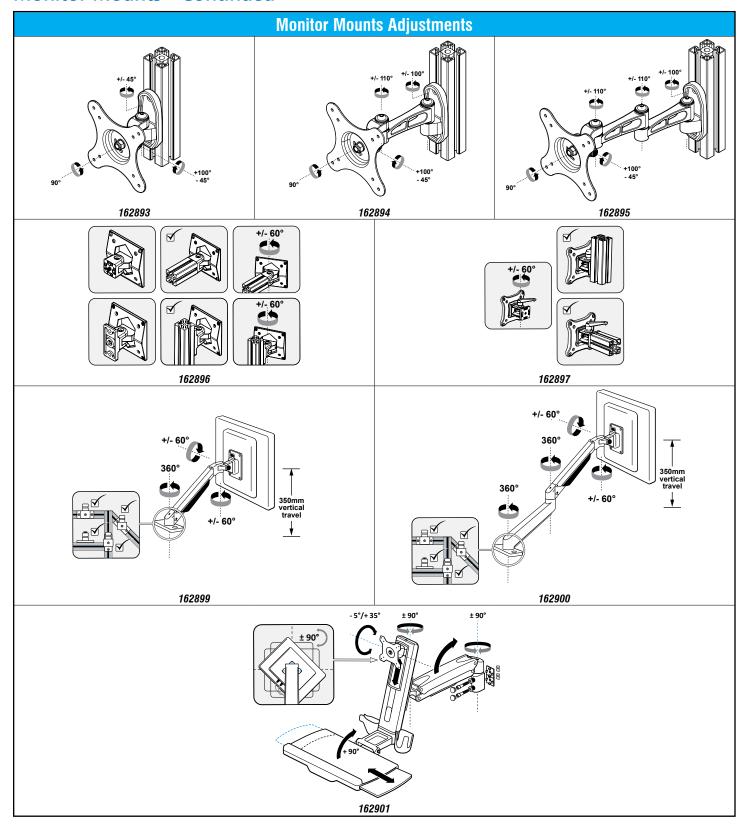






			10.000 00.00				
Part Number	Part Image	Price	Description	Load Rating kg [lb]	Pack Quantity	Installation Instructions Link	Drawing Link
<u>162893</u>		\$42.00				PDF	<u>PDF</u>
<u>162894</u>		\$50.00	Swivel Monitor Mount			PDF	<u>PDF</u>
<u>162895</u>		\$58.00		15 [33.1]		PDF	<u>PDF</u>
<u>162896</u>	H	\$92.00	Monitor Mounting Joint			PDF	<u>PDF</u>
<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>		\$375.00	5-Axis Mounting Support	10 [22.0]		PDF	<u>PDF</u>
<u>162901</u>		\$600.00	4-Axis Workstation	8 [17.6]		PDF	PDF

Monitor Mounts - Continued



Workstation Components

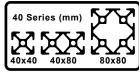




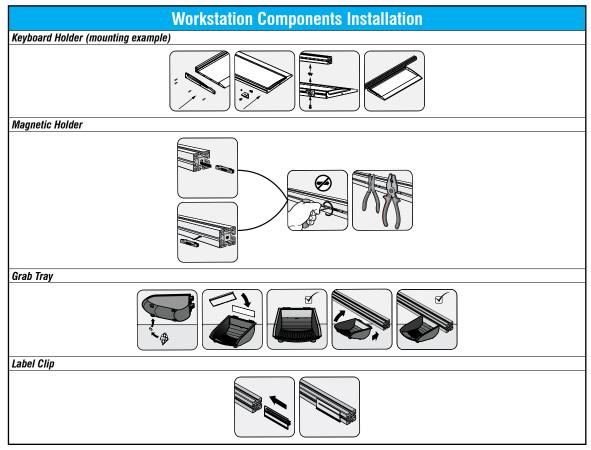
40 Series Workstation Components

Fits





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	PDF			
<u>162906</u>		\$8.00	Magnetic Holder	Magnetic Holder		Nylon/steel	<u>PDF</u>			
<u>162909</u>	4	\$5.25	Top Angle Clamp	n/a	1	Nylon/steel	<u>PDF</u>			
<u>162964</u>		\$9.00	Grab Tray			Nylon	PDF			
<u>162965</u>		\$2.00	Label Clip			PVC	<u>PDF</u>			



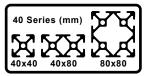
Wire Management



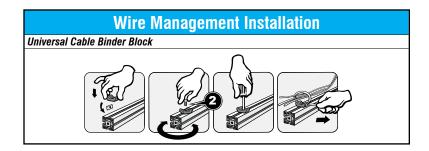


40 Series Wire Management





Part Number	Part Image	Price	Description	Pack Quantity	Recommended Screw Fastener *T-Slot Attachment (ADC Part Number)	Material	Drawing Link
<u>151162</u>		\$89.00	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>		\$64.00	Hook And Loop			Glass-filled nylon/ polypropylene	<u>PDF</u>
<u>151176</u>	1	\$38.50	Clip Cable Binder With Hammer			Nylon/rubber	<u>PDF</u>
<u>151177</u>	(C)	\$28.50	Ground Connector	1 Fasteners included		Glass-filled nylon/ copper/steel	<u>PDF</u>
<u>151178</u>	A STATE OF THE PARTY OF THE PAR	\$4.00	Grounding Terminal			Steel/brass	<u>PDF</u>
162982	4	\$7.50	Universal Cable Binder Block	10	<u>161058</u>	Nylon	<u>PDF</u>
*T-Slot Nut also requir	ed						



Miscellaneous Accessories

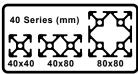






40 Series Miscellaneous Accessories





Part Number	Part Image	Price	Description	Requires	Fits Profile	Recommended Screw Fastener *T-Slot Attachment (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			PDF
<u>151091</u>		\$6.00	Stop Bumper		All 40 Series			Rubber/zinc-	PDF
<u>151170</u>	0	\$9.00	отор витрет	n/a			1	plated steel	PDF
<u>162973</u>		\$3.25	Sensor Mounting Block for 8mm proximity sensor			BHCS M4-0.7 x 25mm		Nylon	PDF
<u>162974</u>		\$3.25	Sensor Mounting Block for 12mm proximity sensor			(not sold by ADC)			PDF
<u>162929</u>	THE STATE OF THE S	\$240.00	Side Protection Profile		All 40 Series		5		<u>PDF</u>
<u>162930</u>		\$270.00	Corner Protection Profile				ິ 	Thermoplastic	PDF
<u>162931</u>		\$28.00	Cover Cap for Side	162929 or 162930		n/a	40	rubber	<u>PDF</u>
<u>162932</u>	9	\$20.00	Cover Cap for Corner	<u>162930</u>			10		PDF
*T-Slot Nut also re	equired								

Miscellaneous Accessories - Continued

