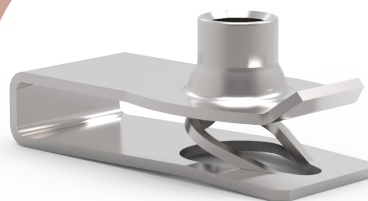
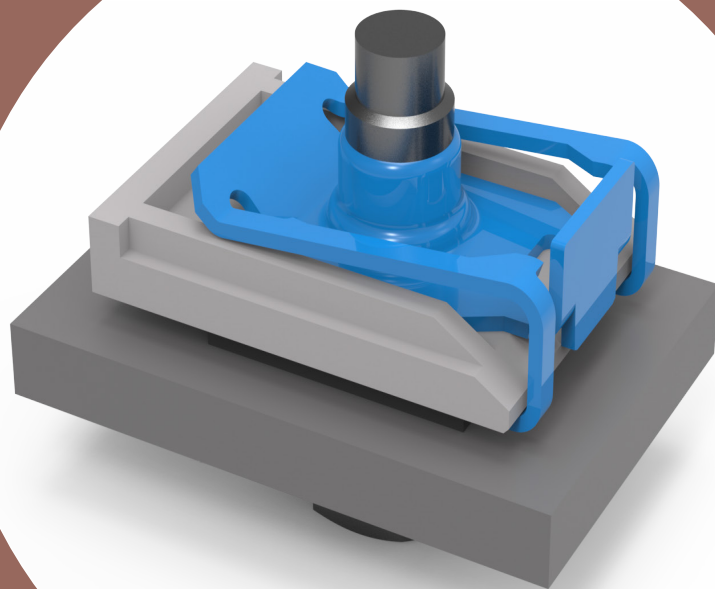


PANEL EDGE NUTS (U-NUTS)



Provide simple, rapid attachment of mating panels

Parts self-retain in screw receiving position

New long-throat tapped barrel variations

New U-Nut Speed Nuts® with ergonomic thumb tab to ease assembly

No special tools or skills required to install

ARaymond ™
MORE THAN FASTENING

 **TINNERMAN**



Panel Edge Nuts (U-Nuts)

A specific need? See back cover for contact information



ON Panel Edges

Panel Edge Nuts (U-Nuts)



Speed Nuts® - U-Shaped



p.4-5



U-Nut Tapped Barrel



p.6-7



U-Nut 5-Prong



p.8-9



U-Nut Retainer



p.10-11



Align Nuts



p.12

Finish and Material Descriptions - Metal

A few points should be clarified with your quality and production departments, as well as with your sales person:

- Type of assembly: Manual or automatic?
- Corrosion resistance: How many hours?
- Environment in which the assembly is located: Saline or polluted atmosphere?
- Colors: Will the part be visible? What colors are desirable?
- **Additional finishes available - Please contact us for more details**

Common Finishes for Metal Parts



Finishes / Surface Treatments				Corrosion Resistance*	
Finish Code	Legacy Code	Color	Description	Red Rust	White Rust
1002	27		Plain Finish Oil Dip	None	None
6200	576		Degrease	None	None
3001	3B	Silver	Zinc Electroplate with Tri Clear Passivation	56	24
5100	4	Grey/Black	Zinc Phosphate & Oil	72	None
4072	360	Black	2 Coats Black Paint (Zinc Phosphate Base)	96	48
4073	67	Silver	2 Coats Aluminum Paint (Zinc Phosphate Base)	96	
4074	1	Olive Drab	2 Coats Olive Drab Paint (Zinc Phosphate Base)	96	
3805	598	Grey	Mechanical Zinc with Tri Clear Passivation	120	48
4078	440	Black	2 Coats Black Paint & Oil Dip (Zinc Phosphate Base)	168	72
3630	613	Grey	Mechanical Zinc with Tri Clear Passivation and Torque / Tension Sealer	240	96
3034	590	Silver	Zinc Nickel Electroplate with Tri Clear Passivation	480	240
6002	3963	Silver	2 Coats Geomet & 1 Coat Plus Topcoat	480	240
6003	4252	Black	2 Coats Geomet & 1 Coat Black Topcoat	480	
6004	3965	Silver	2 Coats Geomet & 1 Coat Plus ML Topcoat	720	240
6007	3252	Black	2 Coats Geomet & 2 Coats Black Paint	720	240
4004	450	Grey	2 Coats Magni 565 (Zinc Phosphate Base)	840	240
3026	415	Black	Zinc Nickel Electroplate with Black Passivation & Torque/Tension Sealer	960	240
4032	463	Black	1 Coat Magni 575 & 2 Coats Black (Zinc Phosphate Base)	1000	480

* For information only/According to Salt Spray test - Data of June 2013

* Depends on the geometry of the part

Note: Some finishes/coatings are not recommended on certain products due to part configurations

Material Descriptions

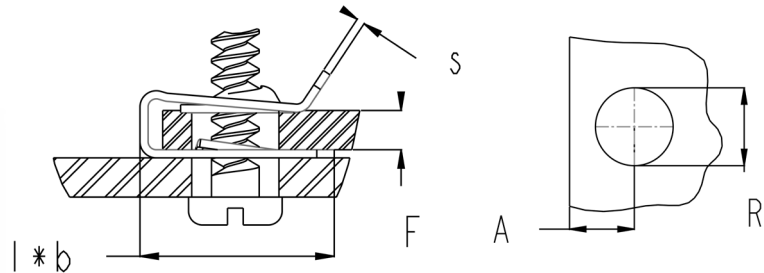
Unless designated otherwise, the majority of our stamped metal fasteners are manufactured in spring or pre-hardened steel.



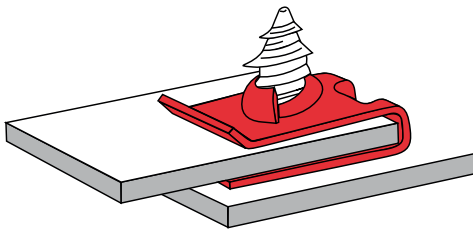
On Panel
Edges

U-Nuts - **NEW PARTS AVAILABLE**

Speed Nut® U-Shaped



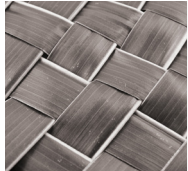
APPLICATION INFORMATION



- Used to provide simple, rapid attachment of mating panels
- Parts self-retain in screw-receiving position
- Self-retention feature improves assembly time and eliminates costly welding and clinching costs
- Corrects misalignment in panel mounting holes
- Part does not turn as the screw is driven and will not freeze on screw threads
- Serviceable - parts disassemble easily and reliably
- Can be used wherever a screw or bolt is used and in place of clinch nuts and weld nuts
- Easy to assemble, requiring no special tools
- **NEW** parts have ergonomic thumb tab
- Wide panel range
- The strength of the joint greatly depends on the type of impression and screw size

VIDEO ON U-NUTS





ASSEMBLING Nuts



On Panel
Edges

U-Nuts - **NEW PARTS AVAILABLE**

Speed Nut® - U-Shaped

Imperial

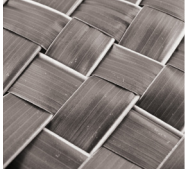
Part Number	Thread Specification	Panel Thickness (F)	Throat Distance (A)	Hole Diameter Min. (R)	Length (l)	Width (b)	Material Thickness (s)
136594	6-32	0.041 - 0.051	0.156	0.187	0.360	0.310	0.017
136898	6-32	0.018 - 0.023	0.187	0.187	0.370	0.312	0.011
137515	6-32	0.110 - 0.125	0.171	0.156	0.350	0.500	0.017
239190	8-18 (ST4.2)	0.020 - 0.135	0.229 - 0.270	0.290	0.668	0.625	0.028
239192	8-18 (ST4.2)	0.020 - 0.135	0.479 - 0.520	0.290	0.907	0.625	0.028
137463	8-18 (ST4.2)	0.070 - 0.150	0.312	0.328	0.750	0.430	0.028
239203	8-18 (ST4.2)	0.136 - 0.250	0.229 - 0.270	0.290	0.668	0.625	0.028
239204	8-18 (ST4.2)	0.136 - 0.250	0.479 - 0.520	0.290	0.668	0.625	0.028
239194	10-12	0.020 - 0.135	0.229 - 0.270	0.290	0.671	0.625	0.031
239195	10-12	0.020 - 0.135	0.479 - 0.520	0.290	0.907	0.625	0.031
239206	10-12	0.136 - 0.250	0.229 - 0.270	0.290	0.671	0.625	0.031
239208	10-12	0.136 - 0.250	0.479 - 0.520	0.290	0.671	0.625	0.031
239197	10-16 (ST4.8)	0.020 - 0.135	0.229 - 0.270	0.290	0.671	0.625	0.031
239198	10-16 (ST4.8)	0.020 - 0.135	0.479 - 0.520	0.290	0.907	0.625	0.031
239210	10-16 (ST4.8)	0.136 - 0.250	0.229 - 0.270	0.290	0.671	0.625	0.031
239211	10-16 (ST4.8)	0.136 - 0.250	0.479 - 0.520	0.290	0.671	0.625	0.031
239200	10-24	0.020 - 0.135	0.229 - 0.270	0.290	0.662	0.625	0.022
239201	10-24	0.020 - 0.135	0.479 - 0.520	0.290	0.898	0.625	0.022
239213	10-24	0.136 - 0.250	0.229 - 0.270	0.290	0.662	0.625	0.022
239214	10-24	0.136 - 0.250	0.479 - 0.520	0.290	0.662	0.625	0.022
137520	10-32	0.045 - 0.062	0.250	0.250	0.570	0.625	0.017
137419	1/4-20	0.051 - 0.109	0.312	0.359	0.780	0.500	0.025
136707	1/4-20	0.051 - 0.109	0.312	0.343	0.790	0.500	0.025
136706	1/4-20	0.064 - 0.125	0.500	0.343	0.970	0.500	0.025
137511	1/4-20	0.060 - 0.156	0.937	0.343	1.240	0.625	0.025
137525	1/4-20	0.156 - 0.190	0.906	0.343	1.225	0.625	0.025

Metric

Part Number	Thread Specification	Panel Thickness (F)	Throat Distance (A)	Hole Diameter Min. (R)	Length (l)	Width (b)	Material Thickness (s)
138973	ST4.2 (8-18)	0.65 - 3.80	8.64	6.98	19.30	13.60	0.67
137679	ST4.2 (8-18)	2.20 - 3.10	10.00	8.00	17.60	14.50	0.64

Parts indicated in red are NEW
Most parts manufactured in spring steel

Self-Retaining Threaded Nuts



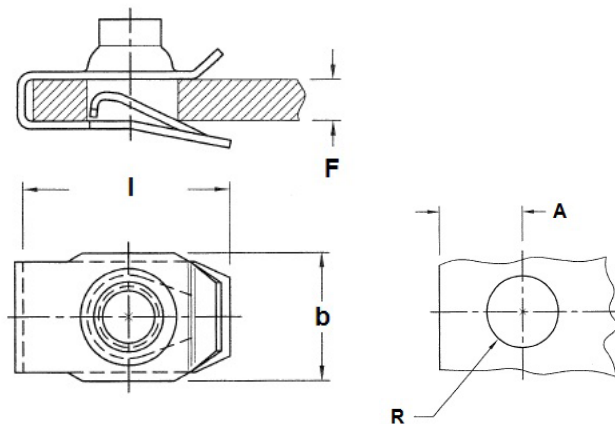
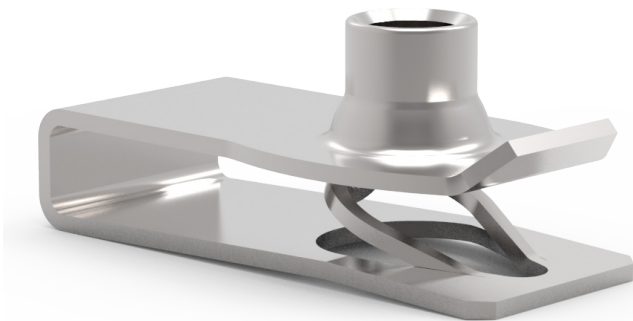
ASSEMBLING Nuts



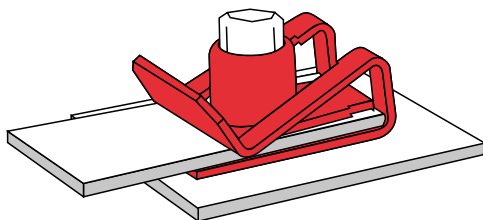
On Panel
Edges

U-Nuts

Tapped Barrel



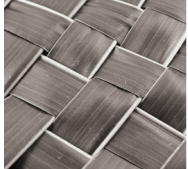
APPLICATION INFORMATION



- Used to provide simple, rapid attachment of mating panels
- Parts self-retain in screw-receiving position
- Preferred alternative for machine screws
- The barrel comes in prevailing torque and free-spinning options
- The nut is slid onto the panel edge and over the panel hole
- Self-retention feature improves assembly time and eliminates costly welding and clinching costs
- Corrects misalignment in panel mounting holes
- Part does not turn as the screw is driven and will not freeze on screw threads
- Serviceable - parts disassemble easily and reliably
- Can be used wherever a screw or bolt is used and in place of clinch nuts and weld nuts
- Easy to assemble, requiring no special tools
- The tapped barrel strength equals that of the screw

VIDEO ON U-NUTS





ASSEMBLING Nuts



On Panel
Edges

U-Nuts

Tapped Barrel

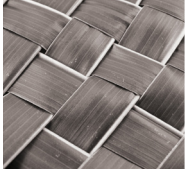
Imperial

Part Number	Legacy Part Number	Thread Specification	Panel Thickness (F)	Throat Distance (A)	Hole Diameter (R)	Width (b)	Length (l)	Torque
138337	LUGS832006	8-32	0.020 - 0.079	0.383	0.280	0.492	0.681	5
138347	LUGZ103239	10-32	0.070 - 0.100	0.270	0.260	0.510	0.600	5
138332	LUGS142059	1/4-20	0.025 - 0.150	0.450	0.390	0.560	0.920	5
246126	N/A	1/4-20	0.025 - 0.150	0.740	0.390	0.570	1.161	5
246128	N/A	1/4-20	0.025 - 0.150	0.740	0.390	0.570	1.161	6
138334	LUGS561863	5/16-18	0.025 - 0.150	0.500	0.437	0.670	0.980	5
246094	N/A	5/16-18	0.025 - 0.150	0.800	0.463	0.670	1.253	5
247615	N/A	5/16-18	0.025 - 0.150	0.800	0.463	0.670	1.253	6
245459	N/A	5/16-18	0.050 - 0.200	0.780	0.463	0.670	1.240	5
247583	N/A	5/16-18	0.050 - 0.200	0.780	0.463	0.670	1.240	6
138333	LUGS381683	3/8-16	0.050 - 0.200	0.660	0.562	0.930	1.290	5

Metric

Part Number	Legacy Part Number	Thread Specification	Panel Thickness (F)	Throat Distance (A)	Hole Diameter (R)	Width (b)	Length (l)	Torque
135211	D99390-M42141	ST4.2 (8-18)	2.00 - 3.00	8.60	7.93	12.50	16.90	6
138056	D99389-M42141	ST4.2 (8-18)	0.50 - 2.00	9.10	7.93	12.50	17.30	6
138280	LPGS420018	ST4.2 (8-18)	0.65 - 3.80	14.00	7.55	12.50	22.00	6
138322	LUGS060023	M6x1.0	0.80 - 4.00	12.00	10.30	14.22	23.37	5
138268	LPGS060023	M6x1.0	0.80 - 4.00	12.00	10.30	14.22	23.37	6
135210	LUGZ002112	M6x1.0	0.80 - 3.81	12.00	10.30	14.22	23.37	5
138282	LPGZ002112	M6x1.0	0.80 - 3.81	12.00	10.30	14.22	23.37	6
135206	LUGZ002241	M6x1.0	0.80 - 3.81	12.00	10.30	14.22	23.37	5
135202	LPGZ002241	M6x1.0	0.80 - 3.81	12.00	10.30	14.22	23.37	6
138326	LUGS061512	M6x1.0	0.80 - 4.00	11.00	7.93	15.00	24.00	5
246127	N/A	M6x1.0	0.80 - 4.00	18.50	10.00	14.50	29.50	5
247582	N/A	M6x1.0	0.80 - 4.00	18.50	10.00	14.50	29.50	6
138324	LUGS060030	M6x1.0	1.00 - 2.50	19.75	10.30	14.50	29.50	5
138328	LUGS080025	M8x1.25	0.80 - 4.00	13.00	11.70	17.02	24.89	5
138272	LPGS080025	M8x1.25	0.80 - 4.00	13.00	11.70	17.02	24.89	6
138289	LPGZ080025	M8x1.25	0.80 - 4.00	13.00	11.70	17.02	24.89	6
247641	N/A	M8x1.25	0.80 - 4.00	19.50	12.00	17.00	31.80	5
247642	N/A	M8x1.25	0.80 - 4.00	19.50	12.00	17.00	31.80	6
138330	LUGS085725	M8x1.25	1.50 - 5.50	13.00	11.70	17.02	24.89	5
135220	LPGS085725	M8x1.25	1.50 - 5.50	13.00	11.70	17.02	24.89	6
138329	LUGS080031	M8x1.25	1.50 - 5.50	20.00	11.70	17.00	31.50	5
138273	LPGS080031	M8x1.25	1.50 - 5.50	20.00	11.70	17.00	31.50	6
138331	LUGS100033	M10x1.5	1.50 - 5.50	17.50	15.00	17.50	32.50	5
138276	LPGS100033	M10x1.5	1.50 - 5.50	17.00	12.00	24.00	33.50	6

Parts indicated in red are NEW
5: Free Spinning Barrel
6: Prevailing Torque Barrel



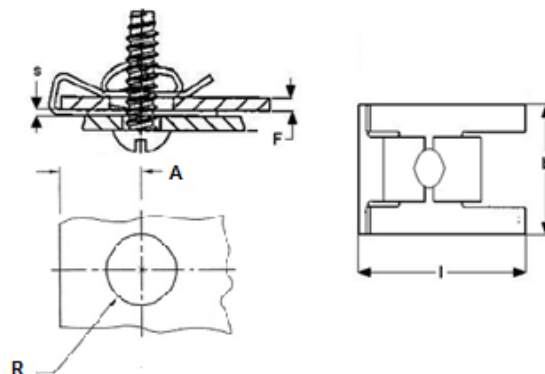
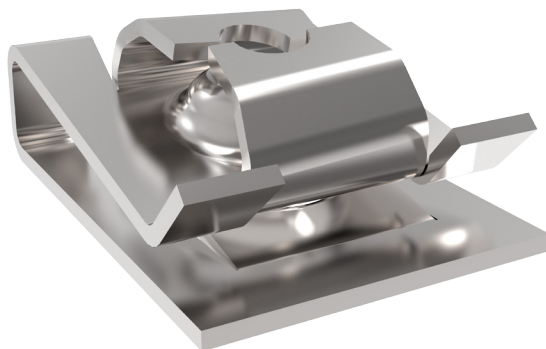
ASSEMBLING Nuts



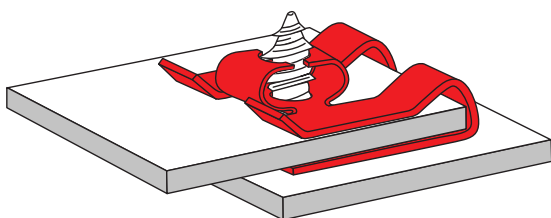
On Panel
Edges

U-Nuts

5-Prong (Prevailing Torque)



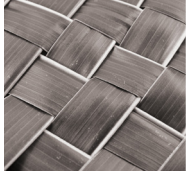
APPLICATION INFORMATION



- Used to provide simple, rapid attachment of mating panels
- Parts self-retain in screw-receiving position
- A viable alternative for coarse screw threads
- The 5-prong feature adds prevailing torque and increases destruction torque
- The nut is slid onto the panel edge and over the panel hole
- Self-retention feature improves assembly time and eliminates costly welding and clinching costs
- Corrects misalignment in panel mounting holes
- Part does not turn as the screw is driven and will not freeze on screw threads
- Serviceable - parts disassemble easily and reliably
- Can be used wherever a screw or bolt is used and in place of clinch nuts and weld nuts
- Easy to assemble, requiring no special tools
- The strength of the part corresponds to the strength of the screw

VIDEO ON U-NUTS





ASSEMBLING Nuts



On Panel
Edges

U-Nuts

5- Prong (Prevailing Torque)

Metric/Imperial Screw (Dimensions in Metric)

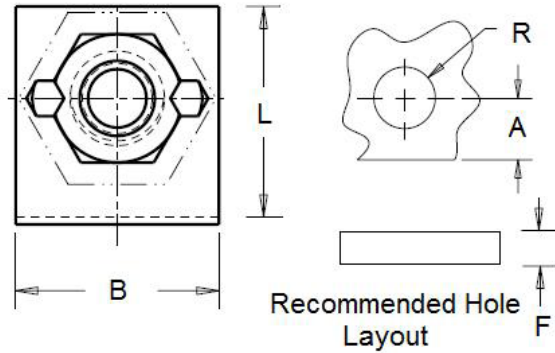
Part Number	Legacy Part Number	Thread Specification	Panel Thickness (F)	Throat Distance (A)	Hole Diameter (R)	Width (b)	Length (l)
137607	D98316-071M	ST4.2 (8-18)	0.50 - 1.80	7.92	8.33	13.78	19.50
137608	D98317-071M	ST4.2 (8-18)	1.80 - 3.80	7.90	8.30	13.78	19.50
137736	D98860-071M	ST4.2 (8-18)	2.40 - 2.90	8.00	6.75	14.00	18.50
137643	D98585-071M	ST4.2 (8-18)	2.40 - 2.90	8.00	6.75	14.00	18.50
137360	C71667-M42141	ST4.2 (8-18)	1.80 - 4.00	8.70	8.00	13.60	18.40
137662	D98665-071M	ST4.2 (8-18)	1.00 - 1.27	12.70	7.92	14.98	20.95
137900	D99174-071M	ST4.2 (8-18)	0.80 - 1.20	14.00	8.33	13.77	25.20
137621	D98434-071M	ST4.2 (8-18)	1.80 - 3.80	14.00	8.33	13.77	25.20

Most parts manufactured in spring steel

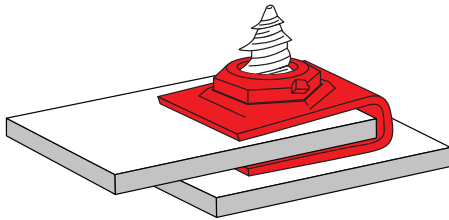


On Panel
Edges

U-Nuts Nut Retainer

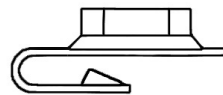


APPLICATION INFORMATION

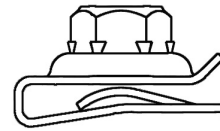


- Used to provide simple, rapid attachment of mating panels
- Parts self-retain in screw-receiving position
- Preferred alternative for larger screw sizes
- The nut is slid onto the panel edge and over the panel hole
- Self-retention feature improves assembly time and eliminates costly welding and clinching costs
- Corrects misalignment in panel mounting holes
- Part does not turn as the screw is driven and will not freeze on screw threads
- Serviceable - parts disassemble easily and reliably
- Can be used wherever a screw or bolt is used and in place of clinch nuts and weld nuts
- Easy to assemble, requiring no special tools
- Combine the strength of the nut with the flexibility of the spring steel cage

DESIGN VARIATIONS



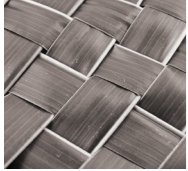
J-TYPE



U-TYPE

VIDEO ON U-NUTS





ASSEMBLING Nuts



On Panel
Edges

U-Nuts Nut Retainer

Imperial Screw (Dimensions in English)

Part Number	Legacy Part Number	Thread Specification	Panel Thickness (F)	Throat Distance (A)	Hole Diameter (R)	Width (b)	Length (l)	Type
136828	C30110-1024	10-24	0.093 - 0.135	0.375	0.437	0.560	0.730	J-Type
136850	C33945-1032	10-32	0.050 - 0.075	0.375	0.343	0.687	0.710	U-Type
136851	C33945-1420	1/4-20	0.050 - 0.075	0.375	0.343	0.687	0.710	U-Type
136829	C30110-1420	1/4-20	0.093 - 0.135	0.375	0.437	0.560	0.730	J-Type
137560	D31758-1032	10-32	0.060 - 0.070	0.272	0.281	0.500	0.570	U-Type

Imperial Screw (Dimensions in Metric)

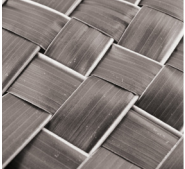
Part Number	Legacy Part Number	Thread Specification	Panel Thickness (F)	Throat Distance (A)	Hole Diameter (R)	Width (b)	Length (l)	Type
136856	C33962SS-1024	10-24	2.92 - 3.18	9.52	7.62	17.45	18.04	U-Type
136841	C33892-1024	10-24	0.81 - 2.36	12.70	10.00	15.87	24.01	J-Type
136842	C33892-1032	10-32	0.81 - 2.36	12.70	10.00	15.87	24.01	J-Type
136844	C33896-1420	1/4-20	2.29 - 3.56	12.70	12.80	19.05	26.29	J-Type
136843	C33892-1420	1/4-20	0.81 - 2.36	12.70	10.00	15.87	24.01	J-Type
136848	C33924-1420	1/4-20	0.81 - 2.36	19.84	10.00	15.87	30.88	J-Type
136854	C33952-5618	5/16-18	1.27 - 2.29	13.87	12.80	19.05	26.67	J-Type
136840	C33883-5618	5/16-18	3.18 - 3.43	11.43	12.70	14.73	23.85	J-Type
136846	C33896-5618	5/16-18	2.29 - 3.56	12.70	12.80	19.05	26.29	J-Type
136855	C33953-5618	5/16-18	3.23 - 4.14	12.70	11.10	19.05	25.40	J-Type
136853	C33952-3816	3/8-16	1.27 - 2.29	13.87	12.80	19.05	26.67	J-Type
136845	C33896-3816	3/8-16	2.29 - 3.56	12.70	12.80	19.05	26.29	J-Type

Metric Screw (Dimensions in Metric)

Part Number	Legacy Part Number	Thread Specification	Panel Thickness (F)	Throat Distance (A)	Hole Diameter (R)	Width (b)	Length (l)	Type
136847	C33896-M61	M6x1.0	2.29 - 3.56	12.70	12.80	19.05	26.29	J-Type

Most parts manufactured in spring steel

Self-Retaining Threaded Nuts

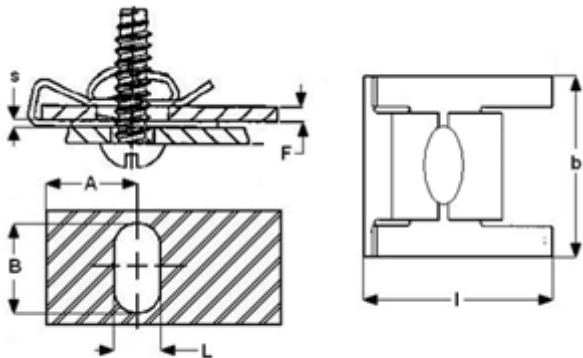


ASSEMBLING Nuts

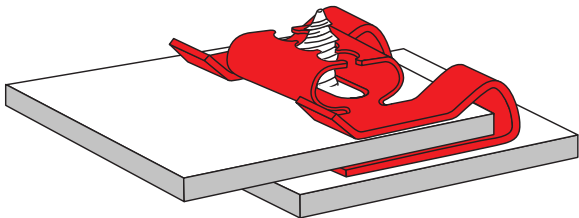


On Panel
Edges

U-Nuts Align Nuts



APPLICATION INFORMATION



- Used to provide simple, rapid attachment of mating panels
- Corrects misalignment in panel mounting holes
- The nut is slid onto the panel edge and over the panel hole
- Parts self-retain in screw-receiving position
- Part does not turn as the screw is driven and will not freeze on screw threads
- Serviceable - parts disassemble easily and reliably
- Easy to assemble, requiring no special tools

Metric/Imperial Screw (Dimensions in Metric)

Part Number	Legacy Part Number	Thread Specification	Panel Thickness (F)	Throat Distance (A)	Hole Size (LxB)	Width (b)	Length (l)
137648	D98612-8Z	ST4.2 (8-18)	1.80 - 2.00	7.00	16.9 x 7.5	23.80	21.50

Most parts manufactured in spring steel

Self-Retaining Threaded Nuts

VIDEO ON U-NUTS





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www.araymond-industrial.com

A. Raymond Tinnerman Industrial, Inc. 02609G
1060 W. 130th Street
Brunswick, OH 44212

Email: araymond_tinnerman_industrial@araymond-tinnerman.com

Tel: 330.220.5100

