

Tinnerman® Single Thread Engaging One-Piece Self-Locking Fasteners

The dimensions of the above parts are envelope dimensions only. For complete design information, please request a blueprint from your Tinnerman representative or the Tinnerman Engineering department.

Metric parts listed in italic



Flat-Type Fasteners Rectangular

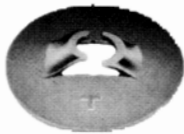
The **Flat-Type Speed Nut** is the basic design from which thousands of **Speed Nut Brand Fasteners** have been developed.

Flat-Type Speed Nut Fasteners are one-piece, self-locking, heat-treated, spring-steel fasteners that replace threaded nuts, lockwashers and spanner washers. On many applications, they eliminate time-consuming assembly operations. Fast and easy to apply, **Speed Nut Fasteners** provide maximum holding power at minimum cost per fastener. They never shake loose from vibration, yet can be easily loosened when desired, without worry about rust- frozen screw threads.

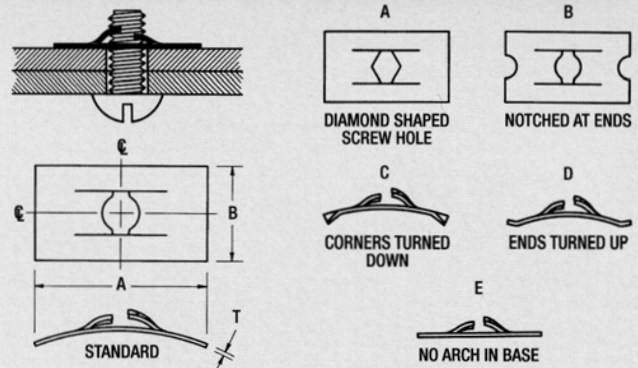
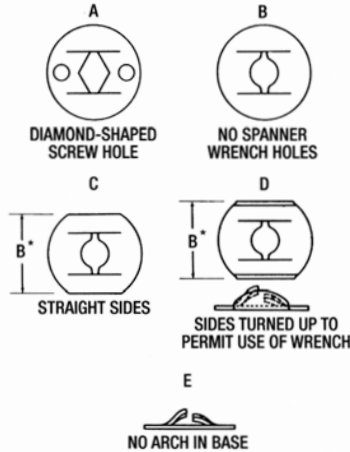
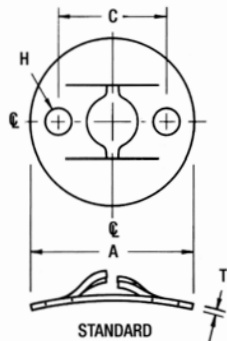
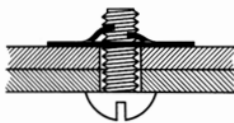


Hold **Speed Nut** in desired position with prongs pointing outward, toward fingers. Start screw through **Speed Nut** impression.

Press **Speed Nut** firmly against panel and drive screw. Finger pressure is sufficient to prevent **Speed Nut** turning as screw is driven.



Flat-Type Fasteners Round



Screw Size	Design Variation	A Length	B Width	T Material Thickness	Part Number
2-56	Std.	.380	.220	.010	C102-256
4-40	AC	.440	.250	.012	C1736-440
4A or 4B	Std.	.380	.250	.022	C7000-4
6-32	D	.510	.310	.017	C1181-632
6A or 6B	Std.	.870	.440	.025	C8000-6
8-32	Std.	.500	.310	.017	C7000-832
8A or 8B	Std.	.870	.470	.028	C8002-8
10-24	B	.730	.440	.022	C1150-1024
10A or 10B	Std.	.750	.500	.031	C7000-10
1/4-20	C	1.000	.560	.020	C8613-020
14A or 14B	Std.	.880	.560	.037	C7000-14
5/16-18	Std.	.980	.630	.028	C601-5618
3/8-16	A	1.000	.750	.034	C1297-3816
1/2-13	A	1.220	.880	.017	D7516-017*

Screw Size	Design Variation	A Diameter	B Width	C Center To Center	H Hole Diameter	T Material Thickness	Part Number
4B	BC	.380	.250	—	—	.022	C71046SS-4Z
6-32	BC	.380	.340	—	—	.017	C1000-632
8-32	BDE	.820	—	—	—	.017	C7868-832
8A or 8B	Std.	.500	—	.375	.062	.025	C944-8Z
10-24	Std.	.570	—	.415	.103	.025	C8642SS-1024
10-32	ABC	.570	.440	—	—	.017	C520-1032
10B	Std.	.570	—	.415	.103	.031	C171-10Z
M6X1.0	Std.	19.050	—	10.420	2.400	.430	C71530-M61*
1/4-20	BDE	.820	.640	—	—	.025	C166-1420
5/16-18	ABCE	.880	.690	—	—	.025	C15320-5618

* Zip-On Fit

Tinnerman® Single Thread Engaging One-Piece Self-Locking Fasteners

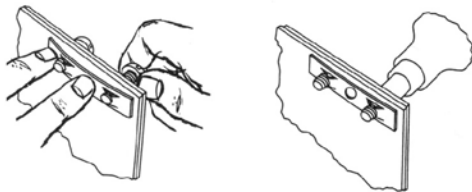
TINNERMAN

Material: All parts are **Spring Steel**, heat treated, unless otherwise specified.
The only variations available are those shown with suffix letters in the part number.
SS – Stainless Steel BE – Beryllium Copper P – Phosphor Bronze



Twin-Type Fasteners

Twin-Type Speed Nut Fasteners offer tremendous advantages over individual threaded nuts, lock and spanner washers on assemblies which have fastening locations in pairs. They are faster and easier to apply with only a single fastener to handle where four to six pieces are ordinarily required. Once the screws are started, the **Speed Nut** cannot turn, thereby eliminating the need for a wrench. This leaves both hands free to drive the screws into a properly locked position. Twin types are available in a wide range of screw sizes and center-to-center dimensions.

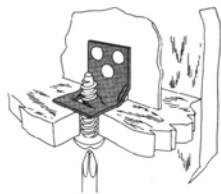


The **Twin-Type** is held in screw-receiving position and the screws are started by hand. No wrench is needed to hold the **Speed Nut** while the screws are driven tight. A center clearance hole is provided on some **Twin-Types** to allow the fastener to be riveted in screw-receiving position for blind location fastening.

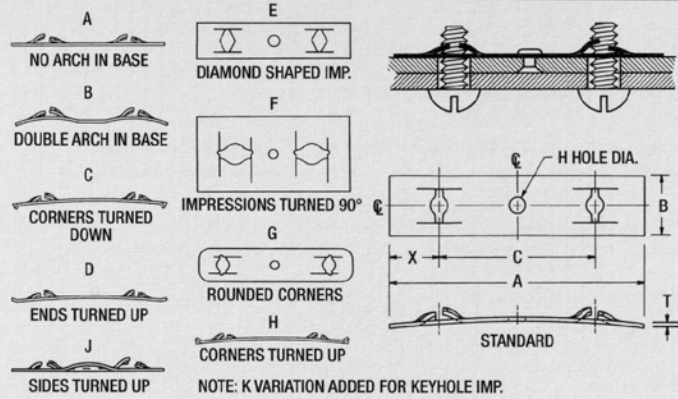


Angle Bracket Fasteners

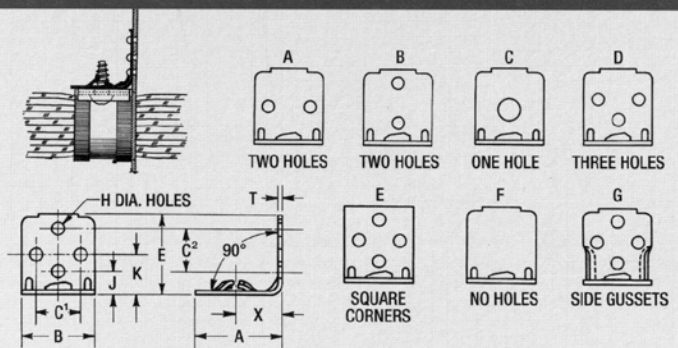
Angle Bracket Speed Nuts combine the conventional **Angle Bracket** with the **Speed Nut** Principle of Spring Tension Fastening to reduce the number of parts, speed assembly and provide structural strength. They are available in a wide variety of shapes and sizes and are applied in all industry from rugged construction to delicate electronics. Made from high quality heat-treated spring steel, they provide long life, reusability and resist vibration loosening, even under the severest conditions such as aircraft applications.



The assembly of **Angle Bracket Speed Nut** can be accomplished in several ways depending upon the nature of the assembly or the manufacturing facilities. They can be riveted, screwed, welded, latched, snapped or twist-locked into blind locations. They provide reliable fastening points at any desirable position on the panel, chassis, frame, bulk-head, etc.



C Center To Center	Screw Size	Design Variation	A Length	B Width	X Center To End	H Hole Dia.	T Material Thick.	Part Number
.188	2-56	AK	.500	.187	.156	—	.012	C53777-256
.380	4-40	Std.	.750	.310	.190	—	.012	C6704-440
.500	6-32	D	1.130	.380	.310	.105	.017	C6065-632
.750	8A or 8B	D	1.380	.380	.310	.105	.028	C8177-8
24.640	M3X0.5	AG	36.580	7.920	5.970	—	.250	C71262-M305
1.000	10A or 10B	D	1.630	.500	.310	.105	.031	C6069-10
1.500	1/4-20	B	2.380	.500	.440	—	.025	C385-1420
2.000	14A	A	2.880	.750	.440	—	.040	C16031-14A
3.000	14B	A	4.000	.560	.500	—	.037	C16063-14Z



Screw or Hole Size	De- sign Var.	A Lgth.	B Width	C1	C2	E Hgt.	H Dia.	J	K	X	T Mat'l Thick	Part Number
6B	C	.450	.310	—	—	.390	.136	.240	—	.250	.022	C19185-6Z
8-32	C	.450	.310	—	—	.390	.136	.240	—	.250	.020	C8706-832
8B	C	.745	.625	—	—	.745	.250	.375	—	.375	.028	C71731-8Z
	Std.	.740	.630	.375	.375	.740	.105	.250	.380	.380	.028	O6264-8Z
	F	.750	.630	—	—	.750	—	—	—	.380	.028	C8563-8Z
10A	CE	.850	.500	—	—	.800	.171	.490	—	.540	.031	C15344-10A