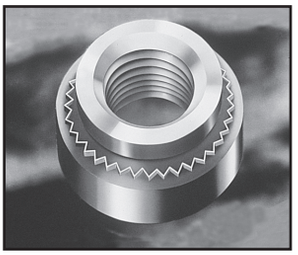
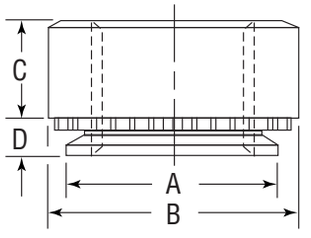


Self-Clinching Nuts

Series C & CS

C & CS nuts provide strong load-bearing threads in sheet metal and other thin section assemblies. C & CS nuts meet spec. features of MIL-N-45938/1.



Series	Material	Finish
C	Heat-treated Carbon Steel	Zinc* Clear
CS	300 Series Stainless Steel	Passivated ASTM A380

*See Finish Spec. on Page 6.

Thread: Internal 2B, ANSI B1.1 (6H, ANSI/ASME B1.13M).

Use In: C – Materials with HRB-80 or less.
CS – Materials with HRB-70 or less.

Dimensions & Specifications

	Thread Size	Part Number Carbon Steel	Part Number Stainless Steel	D Max.	Min.	+.003 in. –.000	A Max.	B ± .01 in.	C ± .01 in.	Min.
INCH (in.)	#2-56	C256-0	CS256-0	.030	.030	.166	.165	.250	.070	.19
		C256-1	CS256-1	.038	.040					
		C256-2	CS256-2	.054	.056					
		C256-3	CS256-3	.087	.091					
	#3-48	C348-0	CS348-0	.030	.030	.166	.165	.250	.070	.19
		C348-1	CS348-1	.038	.040					
		C348-2	CS348-2	.054	.056					
		C348-3	CS348-3	.087	.091					
	#4-40	C440-0	CS440-0	.030	.030	.166	.165	.250	.070	.19
		C440-1	CS440-1	.038	.040					
		C440-2	CS440-2	.054	.056					
		C440-3	CS440-3	.087	.091					
	#6-32	C632-0	CS632-0	.030	.030	.1875	.187	.281	.070	.22
		C632-1	CS632-1	.038	.040					
		C632-2	CS632-2	.054	.056					
		C632-3	CS632-3	.087	.091					
	#8-32	C832-0	CS832-0	.030	.030	.213	.212	.312	.090	.27
		C832-1	CS832-1	.038	.040					
		C832-2	CS832-2	.054	.056					
		C832-3	CS832-3	.087	.091					

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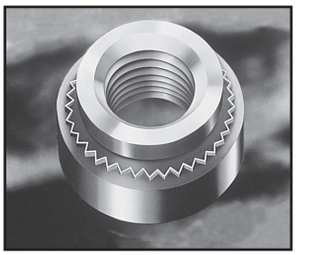
Self-Clinching Nuts

Series C & CS



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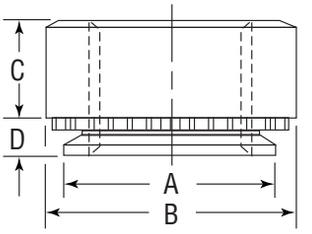

Dimensions & Specifications

	Thread Size	Part Number: Carbon Steel	Part Number: Stainless Steel	D Max.	Min.	+.003 in. −.000	A Max.	B ± .01 in.	C ± .01 in.	Min.
INCH (in.)	#10-24	C1024-0	CS1024-0	.030	.030	.250	.249	.344	.090	.28
		C1024-1	CS1024-1	.038	.040					
		C1024-2	CS1024-2	.054	.056					
		C1024-3	CS1024-3	.087	.091					
	#10-32	C1032-0	CS1032-0	.030	.030	.250	.249	.344	.090	.28
		C1032-1	CS1032-1	.038	.040					
		C1032-2	CS1032-2	.054	.056					
		C1032-3	CS1032-3	.087	.091					
	#12-24	C1224-1	CS1224-1	.038	.040	.277	.276	.380	.130	.31
		C1224-2	CS1224-2	.054	.056					
		C1224-3	CS1224-3	.087	.091					
	1/4-20	C420-0	CS420-0	.045	.047	.344	.343	.440	.170	.34
		C420-1	CS420-1	.054	.056					
		C420-2	CS420-2	.087	.091					
		C420-3	CS420-3	.120	.125					
	1/4-28	C428-1	CS428-1	.054	.056	.344	.343	.437	.170	.34
		C428-2	CS428-2	.087	.091					
		C428-3	CS428-3	.120	.125					
	5/16-18	C518-1	CS518-1	.054	.056	.413	.412	.500	.230	.38
		C518-2	CS518-2	.087	.091					
		C518-3	CS518-3	.120	.125					
	5/16-24	C524-1	CS524-1	.054	.056	.413	.412	.500	.230	.38
		C524-2	CS524-2	.087	.091					
		C524-3	CS524-3	.120	.125					
	3/8-16	C616-1	CS616-1	.087	.091	.500	.499	.562	.270	.44
		C616-2	CS616-2	.120	.125					
		C616-3	CS616-3	.235	.250					
	3/8-24	C624-1	CS624-1	.087	.091	.500	.499	.562	.270	.44
		C624-2	CS624-2	.120	.125					
		C624-3	CS624-3	.235	.250					
	1/2-13	C813-1	CS813-1	.120	.125	.656	.655	.810	.360	.63
		C813-2	CS813-2	.235	.250					

Continued on next page.

Self-Clinching Nuts

Series C & CS

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Dimensions & Specifications

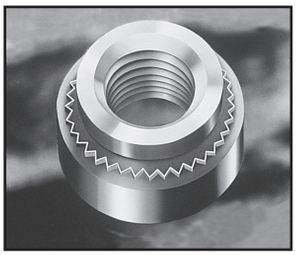
Metric (mm)

Thread Size	Part Number: Carbon Steel	Part Number: Stainless Steel	D MAX.	Min. Sheet Thickness	+.08mm -.00	A Max	B ± .25mm	C ±.25mm	Min
M2 x 0.4	CM2-0	CSM2-0	0.76	0.8	4.22	4.20	6.3	1.5	4.8
	CM2-1	CSM2-1	0.97	1.0					
	CM2-2	CSM2-2	1.37	1.4					
	CM2-3	CSM2-3	2.21	2.3					
M2.5x0.45	CM2.5-0	CSM2.5-0	0.76	0.8	4.22	4.20	6.3	1.5	4.8
	CM2.5-1	CSM2.5-1	0.97	1.0					
	CM2.5-2	CSM2.5-2	1.37	1.4					
	CM2.5-3	CSM2.5-3	2.21	2.3					
M3x0.5	CM3-0	CSM3-0	0.76	0.8	4.22	4.20	6.3	1.5	4.8
	CM3-1	CSM3-1	0.97	1.0					
	CM3-2	CSM3-2	1.37	1.4					
	CM3-3	CSM3-3	2.21	2.3					
M3.5x0.6	CM3.5-0	CSM3.5-0	0.76	0.8	4.75	4.73	7.1	1.5	5.6
	CM3.5-1	CSM3.5-1	0.97	1.0					
	CM3.5-2	CSM3.5-2	1.37	1.4					
	CM3.5-3	CSM3.5-3	2.21	2.3					
M4x0.7	CM4-0	CSM4-0	0.76	0.8	5.41	5.38	7.9	2.0	6.9
	CM4-1	CSM4-1	0.97	1.0					
	CM4-2	CSM4-2	1.37	1.4					
	CM4-3	CSM4-3	2.21	2.3					
M5x0.8	CM5-0	CSM5-0	0.76	0.8	6.35	6.33	8.7	2.0	7.1
	CM5-1	CSM5-1	0.97	1.0					
	CM5-2	CSM5-2	1.37	1.4					
	CM5-3	CSM5-3	2.21	2.3					
M6x1.0	CM6-00	CSM6-00	0.89	0.92	8.75	8.73	11.05	4.08	8.6
	CM6-0	CSM6-0	1.15	1.2					
	CM6-1	CSM6-1	1.37	1.4					
	CM6-2	CSM6-2	2.21	2.3					
	CM6-3†	CSM6-3	3.05	3.2					
M8x1.25	CM8-1	CSM8-1	1.37	1.4	10.5	10.47	12.65	5.47	9.7
	CM8-2	CSM8-2	2.21	2.3					
	CM8-3†	CSM8-3	3.05	3.2					
M10x1.5	CM10-1	CSM10-1	2.21	2.3	14.0	13.97	17.35	7.48	13.5
	CM10-2	CSM10-2	3.05	3.2					
	CM10-3†	CSM10-3†	6.00	6.4					
M12x1.75	CM12-1†	CSM12-1†	3.05	3.2	17.0	16.95	20.55	8.5	16
	CM12-2†	CSM12-2†	6.00	6.4					

† Not Stocked, available on special order.

Self-Clinching Nuts

Series C & CS



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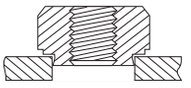
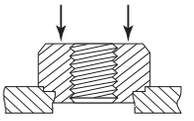
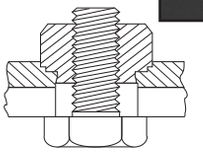


Fastener Must Be Installed Squarely In Hole



Squeezing Force Is Applied To Head Of Fastener



Install Bolt Or Screw From Opposite Side Of Head Of Fastener

Installation & Performance Data

	Thread Size	Shank Code	Cold-rolled Steel: Installation Force (tons)	Cold-rolled Steel: Pushout (lbs.)	Cold-rolled Steel: Torque-out (in.-lbs.)	5052-H34 Aluminum: Installation Force (tons)	5052-H34 Aluminum: Pushout (lbs.)	5052-H34 Aluminum: Torque-out (in.-lbs.)
INCH (in.)	#2-56 #3-48 #4-40	-0 -1 -2 -3	1 – 2	100 120 225 225	13 14 17 18	0.5 – 1	60 89 169 169	8 9.5 12 12
	#6-32	-0 -1 -2 -3	1.5 – 3	105 125 270 270	15 19 27 27	1 – 2	60 90 185 185	16 17 21 21
	#8-32	-0 -1 -2 -3	2 – 3	105 140 280 280	25 34 44 44	1 – 2	65 100 215 215	21 23 32 32
	#10-24 #10-32	-0 -1 -2 -3	2 – 3.5	115 175 245 315	31 39 59 59	1 – 2	65 105 245 245	25 31 49 49
	#12-24	-1 -2 -3	3 – 4	195 345 345	73 79 79	2 – 3.25	115 280 280	62 69 69
	1/4-20 1/4-28	-0 -1 -2-3	3 – 4	310 395	110 145	2 – 3.5	215 355	65 85 120
	5/16-18 5/16-24	-1 -2-3	3 – 4	420 420	160 175	2 – 3.5	375 375	115 155
	3/8-16 3/8-24	-1-2-3	3.5 – 5.5	455	315	2.5 – 4	395	265
	1/2-13	-1-2	5 – 7.5	1040	730	7 – 9	470	345

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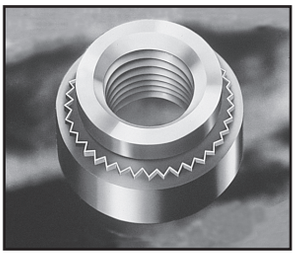

Self-Clinching Nuts

Series C & CS

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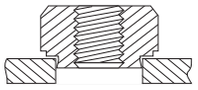
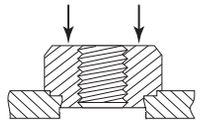
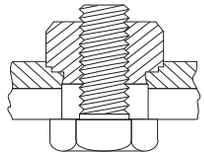


Fastener Must Be Installed Squarely In Hole



Squeezing Force Is Applied To Head Of Fastener



Install Bolt Or Screw From Opposite Side Of Head Of Fastener

Installation & Performance Data

	Thread Size	Shank Code	Cold-rolled Steel: Installation Force (kN)	Cold-rolled Steel: Pushout (N)	Cold-rolled Steel: Torque-out (N•m)	5052-H34 Aluminum: Installation Force (kN)	5052-H34 Aluminum: Pushout (N)	5052-H34 Aluminum: Torque-out (N•m)
METRIC (mm)	M2 M2.5 M3	-0 -1 -2 -3	11.2-15.6	465 545 1010 1100	1.4 1.7 2.0 2.0	6.7-8.9	275 390 745 850	.9 1.1 1.4 1.4
	M3.5	-0 -1 -2 -3	13.4-26.7	475 565 1200 1300	1.8 1.8 2.3 2.5	11.2-13.4	290 465 965 1050	1.8 1.9 2.5 2.8
	M4	-0 -1 -2 -3	18-27	485 640 1245 1300	2.9 2.95 4.2 4.2	11.2-13.4	290 465 965 1100	2.3 2.6 4.0 4.0
	M5	-0 -1 -2 -3	18-31	525 790 1400 1500	3.6 3.6 6.0 6.0	11.2-15.6	290 475 1180 1225	3.0 3.6 4.7 5.7
	M6	-0 -1-2-3	27-36	1375 1755	12.8 16.4	18-32	965 1570	7.7 9.6
	M8	-1-2-3	27-36	1860	18.1	18-32	1560	13.0
	M10	-1-2-3	32-50	2000	36.2	22-36	1750	32.7
	M12	-1-2	33-49	3080	75	23-30	1400	36