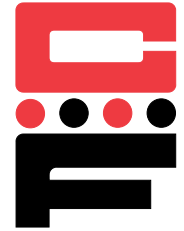
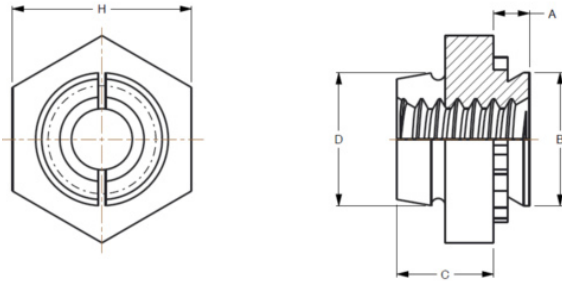


# Self-Clinching Self-Locking Nuts



## Series CRT, CRTS & CRTA

CRT series fasteners provide a low-installed-cost solution where a clinching fastener with repeat locking torque is required. The design allows for greater reusability and minimizes the possibility of thread damage of the mating screw.



Series	Material	Finish
CRT	Carbon Steel	Black Dry film Lubricant over Zinc Phosphate
CRTS	300 Series Stainless Steel	Black Dry film Lubricant
CRTA	7075-T6 Aluminum	None

Thread: Internal 3B, ANSI B1.1 (6H ANSI/ASME B1.13M).

Use in: Cold-rolled Steel.

Part Number Structure:

CRTS 440-1ML



Note: Thread locking performance for CRT & CRTS is equivalent to applicable NASM25027 specifications.

### Dimensions & Specifications

INCH (in.)	Thread Size	Series			Shank Code	A Max.	Min.	+0.03 -0.00	B Max.	D Max.	C ±.010	H Nom.	Min.
		Carbon Steel	Stainless Steel	Aluminum†									
#440	CRT	CRTS	CRTA	-1	.038	.040	.187	.186	.185	.135	.250	.156	
	CRT	CRTS	CRTA	-2	.054	.056							
#6-32	CRT	CRTS	CRTA	-1	.038	.040	.219	.218	.220	.145	.213	.187	
	CRT	CRTS	CRTA	-2	.054	.056							
#8-32	CRT	CRTS	CRTA	-1	.038	.040	.266	.265	.250	.175	.343	.203	
	CRT	CRTS	CRTA	-2	.054	.056							
#10-32	CRT	CRTS	CRTA	-1	.038	.040	.312	.311	.285	.205	.375	.218	
	CRT	CRTS	CRTA	-2	.054	.056							

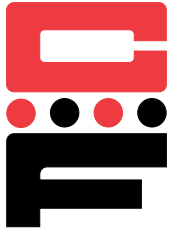
### Dimensions & Specifications

METRIC (mm)	Thread Size	Series			Shank Code	A Max.	Min.	+0.08 -0.00	B Max.	D Max.	C ±.010	H Nom.	Min.
		Carbon Steel	Stainless Steel	Aluminum†									
M3 x 0.5	CRT	CRTS	CRTA	-1	.97	1.0	4.75	4.73	4.85	3.43	6.35	4	
	CRT	CRTS	CRTA	-2	1.38	1.4							
M4 x 0.7	CRT	CRTS	CRTA	-1	.97	1.0	6.76	6.73	6.2	4.45	8.73	5.2	
	CRT	CRTS	CRTA	-2	1.38	1.4							
M5 x 0.8	CRT	CRTS	CRTA	-1	.97	1.0	7.92	7.9	7.4	5.21	9.53	5.6	
	CRT	CRTS	CRTA	-2	1.38	1.4							

†Not Stocked, available on special order.

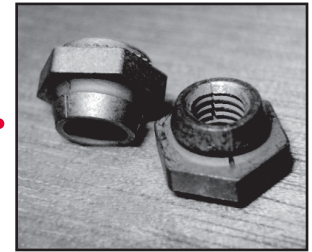
\*Lubricated screw is required.

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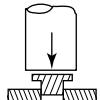
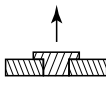
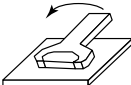
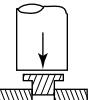
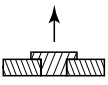
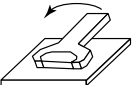


# Self-Clinching Self-Locking Nuts

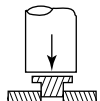
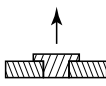
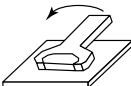
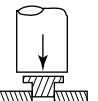
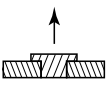
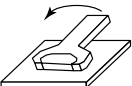
## Series CRT, CRTS & CRTA



### Installation & Performance Data

INCH (in.)	Thread Size	Shank Code	Cold-rolled Steel			5052-H34 Aluminum		
			 Installation Force (lbs.)	 Pushout (lbs.)	 Torque-out (in.-lbs.)	 Installation Force (lbs.)	 Pushout (lbs.)	 Torque-out (in.-lbs.)
#4-40	-1		3000	150	30	1600	130	25
	-2		3000	250	40	2000	200	35
#6-32	-1		4000	150	45	2400	130	25
	-2		4300	275	50	2700	225	45
#8-32	-1		4000	190	50	2700	150	45
	-2		4300	300	70	3000	250	50
#10-32	-1		4000	250	100	3200	150	90
	-2		4300	300	120	3200	250	105

### Installation & Performance Data

METRIC (mm)	Thread Size	Shank Code	Cold-rolled Steel			5052-H34 Aluminum		
			 Installation Force (kN)	 Pushout (N)	 Torque-out (N•m)	 Installation Force (kN)	 Pushout (N)	 Torque-out (N•m)
M3	-1		13.3	667	3.4	7.1	578	2.8
	-2		13.3	1112	4.5	8.9	667	4
M4	-1		17.8	845	5.6	12	667	5.1
	-2		19.1	1334	7.9	13.3	1112	5.7
M5	-1		17.8	1112	11.3	14.2	667	10.2
	-2		19.1	1334	13.6	14.2	1112	11.9