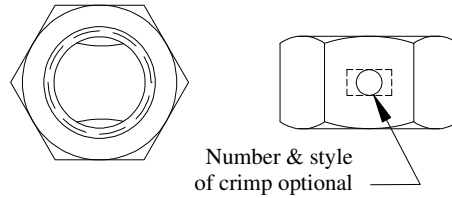


# Two Way Side Lock Nut



Earnest Machine Product's line of "Two Way" lock nuts are manufactured to the dimensional requirements of ASME B18.2.2 for regular hex nuts.

The "locking" performance is to the requirements of the Industrial Fasteners Institutes standard IFI 100/107. The centered crimp area permits this nut to be installed from either side.

The prevailing torque (locking action) is generated by the controlled crimp that has been applied to the center of the nut. The controlled crimped area is designed to develop uniform holding power on the male thread, without creating excessive installation torque that can result in binding and galling of the threads during assembly. The uniform locking action provided by this style of flange nut provides excellent resistance to loosening in high vibration applications.

Earnest offers these Lock Nuts with a Zinc/Clear plating with a wax topcoat to provide uniform torque tension performance along with corrosion protection (other platings are available upon request).

Earnest offers two way lock nuts in two strength levels:

### Grade 8

Material: Medium Carbon Steel, Heat Treated  
 Proof Load Strength: 150,000 psi min  
 Rockwell Hardness: Dia 1/4 to 5/8 – Rc 24/32  
 Dia 3/4 to 1" – Rc 26/34

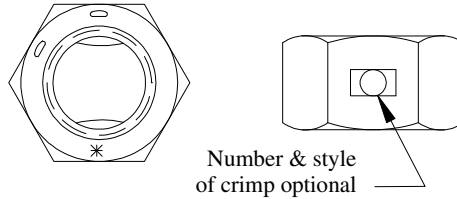
### Grade 2

Low Carbon Steel  
 90,000 psi  
 Rc 32 max

Size	Width Across Flats		Thickness			Installation Torque		Prevailing Torque			
						Grade 8 (Grade C)	Grade 2 (Grade A)	1 <sup>st</sup> Install		1 <sup>st</sup> Removal	
	Max	Min	Nom	Max	Min	Ft-lbs		Max		In-lb	Min
1/4 - 20 - 28	7/16	.428	7/32	.226	.212	10 12	5 5	In-lb	Ft-lb	In-lb	Ft-lb
								40	3.3	5	.4
5/16 - 18 - 24	1/2	.489	17/64	.273	.258	21 23	10 11	80	6.7	8	.7
3/8 - 16 - 24	9/16	.551	21/64	.337	.320	37 42	17 19	110	9.2	12	1
7/16 - 14 - 20	11/16	.675	3/8	.385	.365	59 66	27 30	135	11.2	17	1.4
1/2 - 13 - 20	3/4	.736	7/16	.448	.427	90 102	41 47	204	17	22	1.8
9/16 - 12 - 18	7/8	.875	31/64	.496	.473	131 146	60 67	300	25	30	2.5
5/8 - 11 - 18	15/16	.922	35/64	.559	.535	180 204	83 94	420	35	39	3.2
3/4 - 10 - 16	1 1/8	1.088	41/64	.665	.617	319 357	146 163	540	45	58	4.8
7/8 - 9 - 14	1 5/16	1.269	3/4	.776	.724	515 568	142 156	840	70	88	7.3
1 - 8 - 14	1 1/2	1.450	55/64	.887	.831	773 866	212 238	1080	90	120	10

# Left Hand Two Way Lock Nut

## Grade 8



Earnest Machine Product's line of "Left Handed Two Way Lock Nuts" are manufactured to the dimensional of ASME B18.2.2 for regular hex nuts. The material and physical properties are to the requirements of the Society of Automotive Engineers standard SAE J995. This line is through hardened to a Grade 8 strength level. Grade 8 nuts are designed to be used with all shafts, studs and bolts with a tensile strength of up to 150,000 psi.

The "locking" performance is to the requirements of the Industrial Fasteners Institutes standard IFI 100/107. The centered crimp area permits this nut to be installed from either side.

The prevailing torque (locking action) is generated by the controlled crimp that has been applied to the center of the nut. The controlled crimped area is designed to develop uniform holding power on the male thread, without creating excessive installation torque that can result in binding and galling of the threads during assembly. The uniform locking action provided by this style of flange nut provides excellent resistance to loosening in high vibration applications.

Earnest offers these Lock Nuts with a Zinc/Clear plating with a wax topcoat to provide uniform torque tension performance along with corrosion protection (other platings are available upon request).

### Physical Properties of Grade 8 Nuts

Material:	Medium Carbon Steel, Heat Treated
Proof Load Strength:	150,000 psi min
Rockwell Hardness:	Dia 1/4 to 5/8 – Rc 24/32 Dia 3/4 to 1" – Rc 26/34

Size	Width Across Flats		Thickness		Installation Torque*	Prevailing Torque			
	F		H			1 <sup>st</sup> Install		1 <sup>st</sup> Removal	
	Max	Min	Max	Min		Max		Min	
					Ft-lbs	In-lb	Ft-lb	In-lb	Ft-lb
1/4 - 20 - 28	7/16	.428	7/32	.212	10 12	40	3.3	5	.4
5/16 - 18 - 24	1/2	.489	17/64	.258	21 23	80	6.7	8	.7
3/8 - 16 - 24	9/16	.551	21/64	.320	37 42	110	9.2	12	1
7/16 - 14 - 20	11/16	.675	3/8	.365	59 66	135	11.2	17	1.4
1/2 - 13 - 20	3/4	.736	7/16	.427	90 102	204	17	22	1.8
9/16 - 12 - 18	7/8	.875	31/64	.473	131 146	300	25	30	2.5
5/8 - 11 - 18	15/16	.922	35/64	.535	180 204	420	35	39	3.2
3/4 - 10 - 16	1 1/8	1.088	41/64	.617	319 357	540	45	58	4.8
7/8 - 9 - 14	1 5/16	1.269	3/4	.724	515 568	840	70	88	7.3
1 - 8 - 14	1 1/2	1.450	55/64	.831	773 866	1080	90	120	10

\* when installed on shafts or bolts with a minimum tensile strength of 150,000 psi (Grade 8)