



### FEATURES OF SAFETY NUT

- Replace traditional operation
- Excellent mechanical performance
- Prolong duration of machinery part
- Improve safety during operation

Prevailing torque nut with metal insert is designed in accordance with engineering basic principal. A spring ring is inserted onto a nut, so two pieces are to be formed an integral unit as a safety nut. When the nut is tighten on the bolt or screw, tensional force on the spring ring ensures the nut to be locked securely. Within the designed torque limit, this typical nut provides good mechanical feature and wear characteristics so that nut can be used repeatedly for a reasonable period. Under severe vibrated or thermal (-30°C to 300°C) operation environment, the nut still maintains its good mechanical performance.

### PREVAILING TORQUE HEXAGON NUT WITH METAL INSERT

ISO METRIC STANDARD						ANSI UNIFIED STANDARD					WHITWORTH STANDARD						
DIMENSION		STANDARD	THIN	WITH CAP		DIMENSION		STANDARD	THIN	WITH CAP		DIMENSION		STANDARD	THIN	WITH CAP	
SIZE	COARSE / FINE THREAD	A/F B	HEIGHT H	HEIGHT h	HEIGHT H	SIZE	A/F B	HEIGHT H	HEIGHT h	HEIGHT H	SIZE	TPI	A/F B	HEIGHT H	HEIGHT h	HEIGHT H	
M-3	0.5	5.5	3.0			#10	3/8	0.156			W3/16	24	9	4			
M-4	0.7	7	3.8			#12	7/16	0.191		0.353	W1/4	20	10	5.3		8.5	
M-5	0.8	8	4.6		8.8	1/4	7/16	0.254	0.193	0.447	W5/16	18	14	7.3	5	13	
M-6	1.0	10	5.3	4.3	10.2	5/16	1/2	0.305	0.227	0.530	W3/8	16	17	8.3	6.5	15	
M-8	1.25/1.0	13	7.3	5.0	13.0	3/8	9/16	0.371	0.262	0.639	W7/16	14	19	10	7.5		
M-10	1.5/1.25	17	8.3	6.5	15.0	7/16	11/16	0.422	0.297	0.769	W1/2	12	21	10.5	8.5	19	
M-12	1.75/1.25	19	10.5	8.5	19.0	1/2	3/4	0.497	0.372	0.832	W5/8	11	26	14.5	11	25	
M-14	2.0/1.5	22	12.5	9.5	24.0	9/16	7/8	0.551	0.380	1.004	W3/4	10	32	16	13.5	31	
M-16	2.0/1.5	24	14.5		25.0	5/8	15/16	0.614	0.446	1.027	W7/8	9	35	18	15.5	34	
M-18	2.5/1.5	27	16.0		28.0	3/4	1-1/8	0.719	0.501	1.192	W1	8	41	22	17	41	
M-20	2.5/1.5	30	17.5		31.0	7/8	1-5/16	0.841	0.575	1.411	W1-1/8	7	46	24	19		
M-22	2.5/1.5	32	19.5		34.0	1	1-1/2	0.950	0.645	1.717	W1-1/4	7	50	28	21.5		
M-24	3.0/2.0	36	21.5		41.0	1-1/8	1-11/16	1.087	0.727		W1-3/8	6	54	31			
M-27	3.0/2.0	41	24.0			1-1/4	1-7/8	1.181	0.845		W1-1/2	6	58	34			
M-30	3.5/3.0	46	27.0			1-3/8	2-1/16	1.310	0.919		W1-3/4	5	67	40			
M-33	3.5/3.0	50	29.5			1-1/2	2-1/4	1.439	1.001		W2	4.5	77	45			
M-36	4.0/3.0	55	32.5														
M-39	4.5/3.0	60	35.0														
M-42	4.5/3.0	65	38.0														
M-45	4.5/3.0	70	40.0														



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