



## Standard Type: Dimension table & tightening torque table

Unit : mm

Nominal Size	Pitch	Convex nut					Concave nut					Common to (1), (2)		Overall height	Bottom surface squariness (Max)	Unit Weight	Tightening torque(N.m) *Common to material/strength			
		D		B <sub>1M</sub>		b	D <sub>1</sub>		D <sub>2</sub>	B		S	g				I (approx.)	approx.	Convex nut	Concave nut(Recommended)
		Basic	Tolerance	Basic	Tolerance		Basic	Tolerance		Basic (approx.)	Basic									
M10	0.75	18	0 -0.5	6	0 -0.5	3.5	18	0 -0.5	17	6	0 -0.5	3	14	9.5	0.05	19	*	16		
M12	1	22	0 -0.5	6	0 -0.5	3.5	22	0 -0.5	17	6	0 -0.5	3	18	9.5		17	*	16		
M15	1	25	0 -0.5	7	0 -0.5	4.5	25	0 -0.5	21	7	0 -0.5	4	21	11.5		23	*	28		
M17	1	28	0 -0.5	7	0 -0.5	4.5	28	0 -0.5	24	7	0 -0.5	4	24	11.5		29	*	37		
M20	1	32	0 -0.5	8	0 -0.5	5.5	32	0 -0.5	26	8	0 -0.5	4	28	13.5		43	*	55		
M25	1.5	38	0 -0.5	10	0 -0.5	6	38	0 -0.5	32	10	0 -0.5	5	34	16		72	*	80		
M30	1.5	45	0 -0.5	10	0 -0.5	6	45	0 -0.5	38	10	0 -0.5	5	41	16		103	*	115		
M35	1.5	52	0 -0.5	11	0 -0.5	7	52	0 -0.5	44	11	0 -0.5	5	48	18		150	*	130		
M40	1.5	58	0 -0.5	9	0 -0.5	5	58	0 -0.5	50	12	0 -0.5	6	53	17		170	*	155		
M45	1.5	65	0 -0.5	10	0 -0.5	6	65	0 -0.5	56	13	0 -0.5	6	60	19		240	*	170		
M50	1.5	70	0 -0.5	11	0 -0.5	7	70	0 -0.5	61	14	0 -0.5	6	65	21		285	*	200		
M55	2	75	0 -0.5	11	0 -0.5	6	75	0 -0.5	67	15	0 -0.5	7	69	21		310	*	210		
M60	2	80	0 -0.5	11	0 -0.5	6	80	0 -0.5	73	15	0 -0.5	7	74	21		340	*	240		
M65	2	85	0 -0.5	12	0 -0.5	7	85	0 -0.5	79	12	0 -0.5	7	79	19		330	*	255		
M70	2	92	0 -0.5	12	0 -0.5	7	92	0 -0.5	85	12	0 -0.5	8	85	19	390	*	270			
M75	2	98	0 -0.5	13	0 -0.5	8	98	0 -0.5	90	13	0 -0.5	8	91	21	480	*	300			
M80	2	105	0 -0.5	15	0 -0.5	10	105	0 -0.5	95	15	0 -0.5	8	98	25	660	*	310			
M85	2	110	0 -0.5	16	0 -0.5	11	110	0 -0.5	102	16	0 -0.5	8	103	27	760	*	340			
M90	2	120	0 -0.5	16	0 -0.5	11	120	0 -0.5	108	16	0 -0.5	10	112	27	940	*	350			
M95	2	125	0 -0.5	17	0 -0.5	12	125	0 -0.5	113	17	0 -0.5	10	117	29	1,090	*	380			
M100	2	130	0 -0.5	18	0 -0.5	13	130	0 -0.5	120	18	0 -0.5	10	122	31	1,230	*	390			

Unit : mm

Nominal Size	Pitch	Convex nut					Concave nut					Common to (1), (2)		Overall height l (approx.)	Bottom surface squariness (Max)	Unit Weight g	Tightening torque(N.m) *Common to material/strength		
		D		B <sub>1M</sub>		b	D <sub>1</sub>		D <sub>2</sub>	B		S	g				approx.	Convex nut	Concave nut(Recommended)
		Basic	Tolerance	Basic	Tolerance		Basic	Tolerance	Basic (approx.)	Basic	Tolerance								
M105	2	140	0 -0.5	18	0 -0.5	12	140	0 -0.5	126	18	0 -0.5	12	130	30	0.1	1,500	*	410	
M110	2	145	0 -0.5	19	0 -0.5	13	145	0 -0.5	133	19	0 -0.5	12	135	32		1,600	*	415	
M115	2	150	0 -0.5	19	0 -0.5	13	150	0 -0.5	137	19	0 -0.5	12	140	32		1,700	*	420	
M120	2	155	0 -0.5	20	0 -0.5	13	155	0 -0.5	138	20	0 -0.5	12	145	33		1,800	*	435	
M125	2	160	0 -0.5	21	0 -0.7	14	160	0 -0.5	148	21	0 -0.7	12	150	35		1,900	*	440	
M130	2	165	0 -0.5	21	0 -0.7	14	165	0 -0.5	149	21	0 -0.7	12	155	35		2,000	*	450	
M135	2	175	0 -0.5	22	0 -0.7	15	175	0 -0.5	160	22	0 -0.7	14	163	37		2,600	*	455	
M140	2	180	0 -0.5	22	0 -0.7	15	180	0 -0.5	160	22	0 -0.7	14	168	37		2,700	*	465	
M145	2	190	0 -0.5	24	0 -0.7	16	190	0 -0.5	171	24	0 -0.7	14	178	40		3,400	*	470	
M150	2	195	0 -0.5	24	0 -0.7	16	195	0 -0.5	171	24	0 -0.7	14	183	40		3,550	*	480	
M155	3	200	0 -0.5	25	0 -0.7	17	200	0 -0.5	182	25	0 -0.7	16	186	42		3,800	*	485	
M160	3	210	0 -0.5	25	0 -0.7	17	210	0 -0.5	182	25	0 -0.7	16	196	42		4,200	*	500	
M165	3	210	0 -0.5	26	0 -0.7	17	210	0 -0.5	193	26	0 -0.7	16	196	43		4,300	*	550	
M170	3	220	0 -0.5	26	0 -0.7	17	220	0 -0.5	193	26	0 -0.7	16	206	43		4,750	*	600	
M180	3	230	0 -0.5	27	0 -0.7	18	230	0 -0.5	203	27	0 -0.7	18	214	45		5,000	*	700	
M190	3	240	0 -0.5	28	0 -0.7	19	240	0 -0.5	214	28	0 -0.7	18	224	47		5,500	*	800	
M200	3	250	0 -0.5	29	0 -0.7	20	250	0 -0.5	226	29	0 -0.7	18	234	49		6,300	*	900	

External dimensions : JIS B1554(2005)/ISO 2982

Threads screw tolerances : JIS B0209(2001)/ISO 965 6H

The left hand thread of the size M12 to M50 will be available.

The locking effect will not be changed even though the concave nut is installed first. Then, please tighten the concave nut based on the above recommended torque.

Please be advised that the dimensions or specifications may be subject to change without notice.