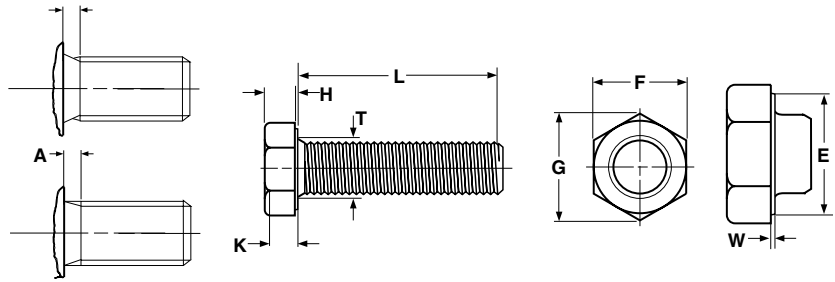


# Metric Products

## Fully Threaded Hex Bolts



Nominal Size	Thread Pitch	A		W		T	E	H		F		G	K
		Thread Run-Out		Washer Face Thickness		Fillet Transition Diameter	Washer Face Diameter	Head Height		Width Across Flats		Width Across Corners	Wrenching Height
		Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Min	Min
M1.6	0.35	1.05	0.35	0.25	0.1	2	2.27	1.225	0.975	3.2	3.02	3.41	0.68
M2	0.4	1.2	0.4	0.25	0.1	2.6	3.07	1.525	1.275	4	3.82	4.32	0.89
M2.5	0.45	1.35	0.45	0.25	0.1	3.1	4.07	1.825	1.575	5	4.82	5.45	1.1
M3	0.5	1.5	0.5	0.4	0.15	3.6	4.57	2.125	1.875	5.5	5.32	6.01	1.31
M4	0.7	2.1	0.7	0.4	0.15	4.7	6.03	2.925	2.675	7	6.78	7.66	1.87
M5	0.8	2.4	0.8	0.5	0.15	5.7	6.88	3.65	3.35	8	7.78	8.79	2.35
M6	1	3	1	0.5	0.15	6.8	8.88	4.15	3.85	10	9.78	11.05	2.7
M8	1.25	4	1.25	0.6	0.15	9.2	11.63	5.45	5.15	13	12.73	14.38	3.61
M10	1.5	4.5	1.5	0.6	0.15	11.2	14.63	6.58	6.22	16*	15.73	17.77	4.35
M12	1.75	5.3	1.75	0.6	0.15	13.7	16.63	7.68	7.32	18*	17.73	20.03	5.12
M14	2	6	2	0.6	0.15	15.7	19.37	8.98	8.62	21*	20.67	23.36	6.03
M16	2	6	2	0.8	0.2	17.7	22.49	10.18	9.82	24	23.67	26.75	6.87
M20	2.5	7.5	2.5	0.8	0.2	22.4	28.19	12.715	12.285	30	29.67	33.53	8.6
M24	3	9	3	0.8	0.2	26.4	33.61	15.215	14.785	36	35.38	39.98	10.35
Tolerance on Length		2-3mm: ±0.2				4-6mm: ±0.24				8-10mm: ±0.29			
		12-16mm: ±0.35				20-30mm: ±0.42				35-50mm: ±0.5			
		55-80mm: ±0.6				90-120: ±0.7				130-150mm: ±0.8			

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\*DIN 933 spec for maximum width across flats on these three diameters are 17, 19 & 22 mm, respectively

Nominal Size	Thread Pitch	A		W		T	E	H		F		G	K		
		Thread Run-Out		Washer Face Thickness		Fillet Transition Diameter	Washer Face Diameter	Head Height		Width Across Flats		Width Across Corners	Wrenching Height		
		Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Min	Min		
M16	2	6	2	0.8	0.2	17.7	22	10.29	9.71	24	23.16	26.17	6.8		
M20	2.5	7.5	2.5	0.8	0.2	22.4	27.7	12.85	12.15	30	29.16	32.95	8.51		
M24	3	9	3	0.8	0.2	26.4	33.25	15.35	14.65	36	35	39.55	10.26		
M30	3.5	10.5	3.5	0.8	0.2	33.4	42.75	19.12	18.28	46	45	50.85	12.8		
M36	4	12	4	0.8	0.2	39.4	51.11	22.92	22.08	55	53.8	60.79	15.46		
M42	4.5	13.5	4.5	1	0.3	45.6	59.95	26.42	25.58	65	63.1	71.3	17.91		
M48	5	15	5	1	0.3	52.6	69.45	30.42	29.58	75	73.1	82.6	20.71		
M56	5.5	16.5	5.5	1	0.3	63	78.66	35.5	34.5	85	82.8	93.56	24.15		
M64	6	18	6	1	0.3	71	88.16	40.5	39.5	95	92.8	104.86	27.65		
Tolerance on Length		60-80mm: ±1.5				90-120mm: ±1.75				130-180mm: ±2.0				200mm: ±2.3	

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