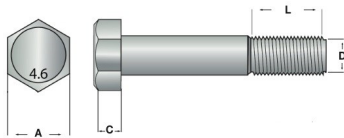


Metric Bolt Dimensions

Diameter	Thread Pitch (L) mm		Shank Diameter (D) Max (mm)	Across Flats (A) mm		Head Thickness (C) mm		Nut Thickness mm	
	Coarse	Fine		Max	Min	Max	Min	Max	Min
M6	1.0	0.75	6.0	10.00	9.78	4.15	3.85	5.20	4.90
M8	1.25	1.0	8.0	13.00	12.73	5.45	5.15	6.80	6.40
M10	1.5	1.25	10.00	16.00	15.73	6.58	6.22	8.40	8.04
M12	1.75	1.25/1.5	12.00	18.00	17.73	7.68	7.32	10.80	10.37
M14	2.0	1.5	14.00	21.00	20.67	8.98	8.62	12.80	12.10
M16	2.0	1.5	16.00	24.00	23.67	10.18	9.82	14.80	14.01
M20	2.5	1.5	20.00	30.00	29.67	12.72	12.28	18.00	16.90
M24	3.0	2.0	24.00	36.00	35.58	15.22	14.78	21.50	20.20
M27	3.0		27.00	41.0	40.0	17.60	17.10	23.80	22.50
M30	3.5		30.00	46.0	45.0	19.75	19.25	25.60	24.30
M33	3.5		33.00	50.0	49.0	21.55	21.05	28.70	27.40
M36	4.0		36.00	55.0	53.8	23.55	23.05	31.00	29.40

Thread Length

- Up to 125mm long Thread = 2 x the diameter + 6mm
- 125 – 200mm long Thread = 2 x the diameter + 12mm
- Over 200mm long Thread = 2 x the diameter + 25mm



Imperial Bolt Dimensions

Diameter	Threads per Inch (L)		Shank Diameter (D)		Head Thickness (C)		Across Flats (A)		Nut Thickness	
	UNC	UNF	Max	Min	Max	Min	Max	Min	Max	Min
1/4	20	28	.250	.245	.163	.150	.438	.428	.226	.212
5/16	18	24	.3125	.3065	.211	.195	.500	.489	.273	.258
3/8	16	24	.375	.369	.243	.266	.562	.551	.337	.320
7/16	14	20	.4375	.4305	.291	.272	.625	.612	.385	.365
1/2	13	20	.500	.493	.323	.302	.750	.736	.448	.427
9/16	12	18	.563	.554	.371	.348	.938	.910	.496	.473
5/8	11	18	.625	.617	.403	.378	.938	.922	.559	.535
3/4	10	16	.750	.741	.483	.455	1.125	1.100	.665	.617
7/8	9	14	.875	.866	.563	.531	1.312	1.285	.776	.724
1	8	14	1.000	.990	.627	.591	1.500	1.469	.887	.831
1 1/8	7	12	1.125	1.114	.718	.658	1.688	1.631	.999	.939
1 1/4	7	12	1.25	1.239	.813	.749	1.875	1.812	1.094	1.030
1 3/8	6	12	1.375	1.363	.878	.810	2.062	1.994	1.206	1.138
1 1/2	6	12	1.5	1.488	.974	.902	2.25	2.175	1.371	1.245
1 3/4	5		1.75	1.738	1.134	1.054	2.625	2.538	1.53	1.470
2	4.5		2	1.988	1.263	1.175	3	2.9	1.754	1.684

Thread Length

- Up to 6 inch long Thread = 2 x the diameter + 1/4
- Over 6 inch long Thread = 2 x the diameter + 1/2