

Mild steel bolts

ISO Metric Commercial Hex Head Bolts & Set Screws,

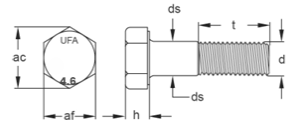
Property Class 4.6

Bolts

Set Screws

✓ AS 1111.1

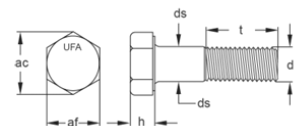
✓ AS 1111.2



Diameter mm	Pitch mm	af		ac		h		ds		t			Spanner mm
		Min	Max	Min	Min	Max		Min	Max	L ≤ 125	125 < L ≤ 200	L > 200	
M5	0.80	7.64	8.00	8.63	3.12	3.88		4.52	5.48	16	22	35	8
M6	1.00	9.64	10.00	10.89	3.62	4.38		5.52	6.48	18	24	37	10
M8	1.25	12.57	13.00	14.20	4.92	5.68		7.42	8.58	22	28	41	13
M10	1.50	15.57	16.00	17.59	5.95	6.85		9.42	10.58	26	32	45	16
M12	1.75	17.57	18.00	19.85	7.05	7.95		11.30	12.70	30	36	49	18
M16	2.00	23.16	24.00	26.17	9.25	10.75		15.30	16.70	38	44	57	24
M20	2.50	29.16	30.00	32.95	11.60	13.40		19.16	20.84	46	52	65	30
M24	3.00	35.00	36.00	39.55	14.10	15.90		23.16	24.84	54	60	73	36
M30	3.50	45.00	46.00	50.85	17.65	19.75		29.16	30.84	66	72	85	46
M36	4.00	53.80	55.00	60.79	21.45	23.55		35.00	37.00	—	84	97	55
M42	4.50	63.10	65.00	71.30	24.95	27.05		41.00	43.00	—	96	109	65
M48	5.00	73.10	75.00	82.60	28.95	31.05		47.00	49.00	—	108	121	75
M56	5.50	82.80	85.00	93.56	33.75	36.25		54.80	57.20	—	—	137	85
M64	6.00	92.80	95.00	104.86	38.75	41.25		62.80	65.20	—	—	153	95

BSW Hex Bolts & Set Screws, 28 tonf/in²

✓ AS/NZS 2451

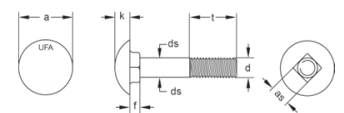


Diameter	Pitch tpi	af		ac	h		ds
		Min	Max	Max	Min	Max	Max
1/4	20	0.435	0.445	0.510	0.166	0.186	0.280
5/16	18	0.515	0.525	0.610	0.208	0.228	0.342
3/8	16	0.585	0.600	0.690	0.250	0.270	0.405
7/16	14	0.695	0.710	0.820	0.292	0.312	0.468
1/2	12	0.800	0.820	0.950	0.333	0.363	0.530
5/8	11	0.985	1.010	1.170	0.417	0.447	0.665
3/4	10	1.175	1.200	1.390	0.500	0.530	0.790
7/8	9	1.270	1.300	1.500	0.583	0.623	0.915
1	8	1.450	1.480	1.710	0.666	0.706	1.040

Nominal thread length = 2D + 1/4 inch, where D is the thread diameter

ISO Metric Cup Head Square Neck Bolts

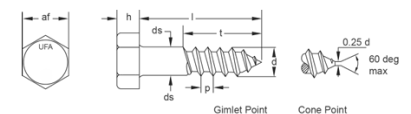
✓ AS/NZS 1390



Diameter mm	Pitch mm	a		k		f		as		t		
		Min	Max	Min	Max	Min	Max	Min	Max	L ≤ 125	125 < L ≤ 200	L > 200
M5	0.80	11.14	11.25	2.50	3.10	2.50	3.10	4.52	5.48	16	22	—
M6	1.00	12.40	13.50	3.00	3.60	3.00	3.60	5.52	6.48	18	24	—
M8	1.25	16.90	18.00	4.00	4.80	4.00	4.80	7.42	8.58	22	28	41
M10	1.50	21.20	22.50	5.00	5.80	5.00	5.80	9.42	10.58	26	32	45
M12	1.75	25.70	27.00	6.00	6.80	6.00	6.80	11.30	12.70	30	36	49
M16	2.00	34.40	36.00	8.00	8.90	8.00	8.90	15.30	16.70	38	44	57
M20	2.50	43.40	45.00	10.00	10.90	10.00	10.90	19.16	20.84	46	52	65
M24	3.00	52.10	54.00	12.00	13.10	12.00	13.10	23.16	24.84	54	60	73

ISO Metric Coach Screws

✓ AS/NZS 1393



Diameter mm	af		ac		h		ds
	Min	Max	Min	Min	Max	Min	Max
M6	9.64	10.00	10.89	3.62	4.38	5.52	6.48
M8	12.57	13.00	14.20	4.92	5.68	7.42	8.58
M10	15.57	16.00	17.59	5.95	6.85	9.42	10.58
M12	17.57	18.00	19.85	7.05	7.95	11.30	12.70
M16	23.16	24.00	26.17	9.25	10.75	15.30	16.70
M20	29.16	30.00	32.95	11.60	13.40	19.16	20.84

Cup head bolts: head height (k) and square neck depth (f) are shown equal across the range — confirm f against AS/NZS 1390. Dimensions in mm (metric tables) and inches (BSW table). Reference only — confirm against the relevant standard for your application.