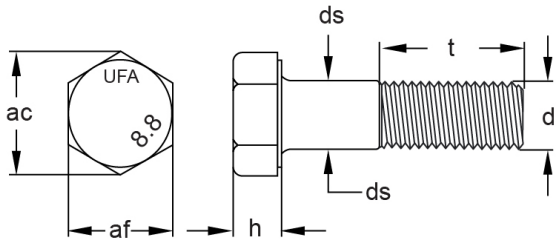
High tensile **bolts**

ISO Metric Precision Hex Bolts & Set Screws, Property Class 8.8 and 10.9

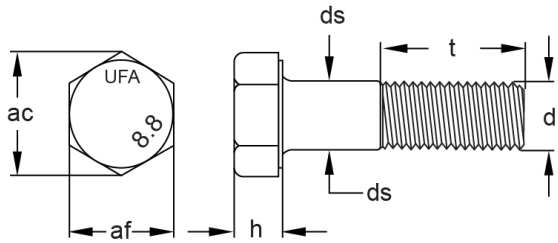


Bolts **AS 1110.1**

Set Screws **AS 1110.2**

Diameter mm	Pitch mm	af		ac	h		ds		t			Spanner mm
		Min	Max	Min	Min	Max	Min	Max	L ≤ 125	L ≤ 200	L ≥ 200	
M4	0.70	6.78	7.00	7.66	2.68	2.92	3.82	4.00	14	20	33	7
M5	0.80	7.78	8.00	8.79	3.35	3.65	4.82	5.00	16	22	35	8
M6	1.00	9.78	10.00	11.05	3.85	4.15	5.82	6.00	18	24	37	10
M8	1.25	12.73	13.00	14.38	5.15	5.45	7.78	8.00	22	28	41	13
M10	1.50	15.73	16.00	17.77	6.22	6.58	9.78	10.00	26	32	45	16
M12	1.75	17.73	18.00	20.03	7.32	7.68	11.73	12.00	30	36	49	18
M14	2.00	20.67	21.00	23.36	8.62	8.98	13.73	14.00	34	40	53	21
M16	2.00	23.67	24.00	26.75	9.82	10.18	15.73	16.00	38	44	57	24
M18	2.50	26.67	27.00	30.14	11.28	11.72	17.73	18.00	42	48	61	27
M20	2.50	29.67	30.00	33.53	12.28	12.72	19.67	20.00	46	52	65	30
M22	2.50	33.38	34.00	37.72	13.78	14.22	21.67	22.00	50	56	69	34
M24	3.00	35.38	36.00	39.98	14.78	15.22	23.67	24.00	54	60	73	36
M27	3.00	40.00	41.00	45.20	16.35	17.35	26.48	27.00	60	66	79	41
M30	3.50	45.00	46.00	50.85	18.28	19.12	29.48	30.00	66	72	85	46
M33	3.50	49.00	50.00	55.37	20.58	21.42	32.38	33.00	-	78	91	50
M36	4.00	53.80	55.00	60.79	22.08	22.92	35.38	36.00	-	84	97	55
M42	4.50	63.10	65.00	71.30	25.58	26.42	41.38	42.00	-	96	109	65
M48	5.00	73.10	75.00	82.60	29.58	30.42	47.38	48.00	-	108	121	75
M56	5.50	82.80	85.00	93.56	34.50	35.50	55.26	56.00	-	-	137	85
M64	6.00	92.80	95.00	104.86	39.50	40.50	63.26	64.00	-	-	153	95

ISO Metric Precision Hex Bolts & Set Screws, Fine Pitch, Property Class 8.8 and 10.9



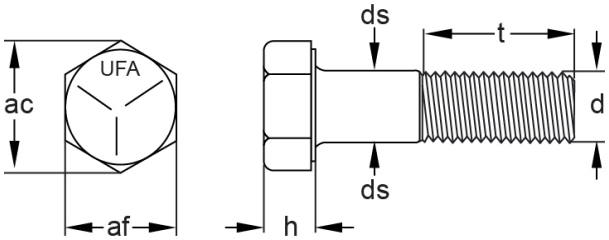
Bolts **AS 1110.1**

Set Screws **AS 1110.2**

Diameter mm	Pitch mm	af		ac	h		ds		t			Spanner mm
		Min	Max	Min	Min	Max	Min	Max	L ≤ 125	L ≤ 200	L ≥ 200	
M8	1.00	12.73	13.00	14.38	5.15	5.45	7.78	8.00	22	28	41	13
M10	1.00/1.25	15.73	16.00	17.77	6.22	6.58	9.78	10.00	26	32	45	16
M12	1.25/1.50	17.73	18.00	20.03	7.32	7.68	11.73	12.00	30	36	49	18
M14	1.50	20.67	21.00	23.36	8.62	8.98	13.73	14.00	34	40	53	21
M16	1.50	23.67	24.00	26.75	9.82	10.18	15.73	16.00	38	44	57	24
M18	1.50	26.67	27.00	30.14	11.28	11.72	17.73	18.00	42	48	61	27
M20	1.50	29.67	30.00	33.53	12.28	12.72	19.67	20.00	46	52	65	30
M24	2.00	35.38	36.00	39.98	14.78	15.22	23.67	24.00	54	60	73	36

Unified High Tensile Hexagon Bolts & Set Screws, UNC and UNF Grade 5 and 8

AS/NZS 2465



Grade 8

Diameter	Pitch		af		ac		h		ds		t
	UNC	UNF	Min	Max	Min	Max	Min	Max	Min	Max	Min
1/4	20	28	0.428	0.438	0.488	0.505	0.150	0.163	0.245	0.250	3/4
5/16	18	24	0.489	0.500	0.557	0.577	0.195	0.211	0.306	0.313	7/8
3/8	16	24	0.551	0.562	0.628	0.650	0.226	0.243	0.369	0.375	1
7/16	14	20	0.612	0.625	0.698	0.722	0.272	0.291	0.430	0.438	1 1/8
1/2	13	20	0.736	0.750	0.840	0.866	0.302	0.323	0.493	0.500	1 1/4
9/16	12	18	0.798	0.812	0.910	0.938	0.348	0.371	0.554	0.563	1 3/8
5/8	11	18	0.922	0.938	1.051	1.083	0.378	0.403	0.617	0.625	1 1/2
3/4	10	16	1.100	1.125	1.245	1.299	0.455	0.483	0.741	0.750	1 3/4
7/8	9	14	1.285	1.312	1.465	1.516	0.531	0.563	0.866	0.875	2
1	8	12	1.469	1.500	1.675	1.732	0.591	0.627	0.990	1.000	2 1/4
1 1/8	7	12	1.631	1.688	1.859	1.949	0.658	0.718	1.114	1.125	2 1/2
1 1/4	7	12	1.812	1.875	2.066	2.165	0.749	0.813	1.239	1.250	2 3/4
1 3/8	6	12	1.994	2.062	2.273	2.382	0.810	0.878	1.363	1.375	3
1 1/2	6	12	2.175	2.250	2.480	2.598	0.902	0.974	1.488	1.500	3 1/4
1/4	20	28	0.428	0.438	0.488	0.505	0.150	0.163	0.245	0.250	
5/16	18	24	0.489	0.500	0.557	0.577	0.195	0.211	0.306	0.313	
3/8	16	24	0.551	0.562	0.628	0.650	0.226	0.243	0.369	0.375	
7/16	14	20	0.612	0.625	0.698	0.722	0.272	0.291	0.430	0.438	
1/2	13	20	0.736	0.750	0.840	0.866	0.302	0.323	0.493	0.500	
5/8	11	18	0.922	0.938	1.051	1.083	0.378	0.403	0.617	0.625	