

STAINLESS STEEL

METRIC HEX BOLTS

STAINLESS STEEL GRADE		PROPERTY CLASS	TENSILE STRENGTH (MPa)	STRESS AT 0.2% NON-PROPORTIONAL ELONGATION (MPa)	ELONGATION AFTER FRACTURE (mm)
			MIN	MIN	MIN
Austenitic	A1 A2 A3	50	500	210	0.6d
		70	700	450	0.4d
		80	800	600	0.3d
	A4 A5	50	500	210	0.6d
		70	700	450	0.4d
		80	800	600	0.3d
		100	1000	800	0.2d
	A8	70	700	450	0.4d
		80	800	600	0.3d
		100	1000	800	0.2d

Reference ISO 3506.1 2020'

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METRIC HEX BOLTS

DIAMETER	STRESS AREA (mm ²)	MINIMUM ULTIMATE TENSILE LOADS (N)			
		AUSTENITIC STEELS			
		CLASS 50	CLASS 70	CLASS 80	CLASS 100
M3	5.03	2520	3530	4030	5040
M3.5	8.78	3390	4750	5430	6780
M4	14.2	4390	6150	7030	8780
M5	20.1	7100	9930	11350	14190
M6	36.6	10070	14090	16100	20130
M7	58	14430	20210	23090	28860
M8	84.3	18310	25630	29290	36610
M10	115	29000	40600	46400	57990
M12	157	42140	58990	67420	84270
M14	192	57720	80810	92360	115500
M16	245	78340	109700	125400	156700
M18	303	96240	134800	154000	192500
M20	353	122400	171400	195900	244800
M22	459	151700	212400	242800	303400
M24	561	176300	246800	282100	352600
M27	694	229800	321600	367600	459500
M30	817	280300	392500	448500	560600
M33	966	346800	485500	554900	693600
M36	1121	408400	571800	653400	816800
M39	1473	487900	683100	780700	975800

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METRIC HEX BOLTS

DIAMETER	STRESS AREA (mm ²)	MINIMUM LOAD AT 0.2% NON-PROPORTIONAL ELONGATION (N)			
		AUSTENITIC STEELS			
		CLASS 50	CLASS 70	CLASS 80	CLASS 100
M3	5.03	1060	2270	3020	4030
M3.5	8.78	1430	3050	4070	5430
M4	14.2	1850	3960	5270	7030
M5	20.1	2980	6390	5810	11350
M6	36.6	4230	9060	12080	16100
M7	58	6070	12990	17320	23090
M8	84.3	7690	16480	21970	29290
M10	115	12180	26100	34800	46400
M12	157	17700	37920	50560	67420
M14	192	24250	51950	69270	92360
M16	245	32910	70510	94010	125400
M18	303	40420	86620	115500	154000
M20	353	51410	11200	146900	195900
M22	459	63720	136600	182100	242800
M24	561	74030	158700	211600	282100
M27	694	96480	206800	275700	367600
M30	817	117800	252300	336400	448500
M33	966	145700	312100	416200	554900
M36	1121	171600	367600	490100	653400
M39	1473	205000	439100	585500	780700

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