



INCH BOLT TORQUE TABLE SAE J429 and ASME 574

Steel Grade	SAE 5		SAE 8		Socket Head Cap Screws	
Nom Dia-Pitch	Torque in Pound Foot or (Pound Inch)					
	Dry	Lubed	Dry	Lubed	Dry	Lubed
1/4-20	(101) 8	(76) 6	(143) 12	(107) 9	(168) 14	(120) 10
1/4-28	(116) 10	(87) 7	(147) 12	(123) 12	(192) 16	(144) 12
5/16-18	(209) 17	(157) 13	(295) 25	(221) 18	(348) 29	(264) 22
5/16-24	(231) 19	(174) 15	(327) 27	(245) 20	(384) 32	(288) 24
3/8-16	(372) 31	(276) 23	44	33	51	38
3/8-24	(420) 35	(312) 26	49	37	58	43
7/16-14	49	37	70	52	81	61
7/16-20	55	41	78	58	91	68
1/2-13	75	57	106	80	124	93
1/2-20	85	64	120	90	140	105
5/8-11	150	113	212	159	238	179
5/8-18	170	127	240	180	27	202
3/4-10	267	200	376	282	423	317
3/4-16	297	223	420	315	472	354
7/8-9	429	322	606	455	682	511
7/8-14	474	355	69	502	752	564
1-8	644	483	909	681	1022	767
1-12	722	542	1020	765	1147	860

Lubed means cleaned, dry bolts, lubricated with standard medium viscosity machine oil.
Lubricate all contact areas of the bolts and washers. Lubricating the bolts is the suggested method.

METRIC BOLT TORQUE TABLE ISO 898

Property Class	8.8		10.9		12.9 Socket Head Cap Screw	
Nom Size x Pitch	Torque in Newton Meter - Nm					
	Dry	Lubed	Dry	Lubed	Dry	Lubed
M5 x 0.80	6.1	4.6	8.8	6.7	10.3	7.7
M6 x 1.00	10.4	7.8	15	11.2	17.6	13.1
M7 x 1.00	17.6	13.1	25.1	18.9	29.4	22
M8 x 1.25	25.4	19.1	37.6	27.3	42.6	32.1
M10 x 1.50	50	38	72	54	84	64
M12 x 1.75	88	66	126	94	146	110
M14 x 2.00	141	106	201	150	235	176
M16 x 2.00	218	164	312	233	365	274
M18 x 2.50	301	226	431	323	504	378
M20 x 2.50	426	319	609	457	712	534
M22 x 2.50	580	435	831	624	971	728
M24 x 3.00	736	552	1052	789	1231	923
M27 x 3.00	1079	809	1544	1158	1805	1353
M30 x 3.50	1463	1097	2092	1570	2446	1834
M33 x 3.50	1990	1493	2849	2137	3328	2497
M36 x 4.00	2557	1918	3659	2744	4276	3208

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