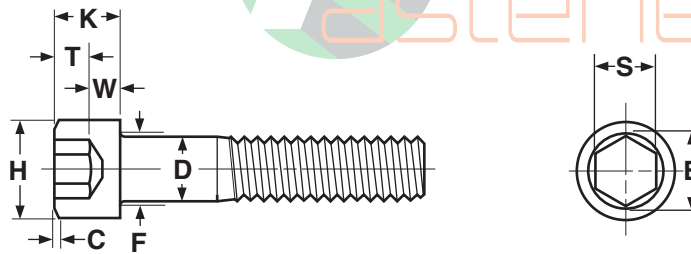


SOCKET CAP SCREWS



METRIC - SOCKET HEAD CAP SCREWS, HEAT TREATED ALLOY STEEL															ISO 4762
Basic Screw Diameter	Thread Pitch	D		H		K		C	F	S		E	T	W	Suggested Seating Torque
		Max	Min	Max	Min	Max	Min	Max	Max	Max	Min	Min	Min	Min	
M1.6	0.35	1.60	1.46	3.14	2.86	1.60	1.46	0.16	2	1.545	1.520	1.73	0.7	0.55	-
M2	0.4	2.00	1.86	3.98	3.62	2.00	1.86	0.2	2.6	1.545	1.520	1.73	1	0.55	-
M2.5	0.45	2.50	2.36	4.68	4.32	2.50	2.36	0.25	3.1	2.045	2.020	2.3	1.1	0.85	-
M3	0.5	3.00	2.86	5.68	5.32	3.00	2.86	0.3	3.6	2.56	2.52	2.87	1.3	1.15	23
M4	0.7	4.00	3.82	7.22	6.78	4.00	3.82	0.4	4.7	3.071	3.020	3.44	2	1.4	54
M5	0.8	5.00	4.82	8.72	8.28	5.00	4.82	0.5	5.7	4.084	4.020	4.58	2.5	1.9	109
M6	1	6.00	5.82	10.22	9.78	6.00	5.7	0.6	6.8	5.084	5.020	5.72	3	2.3	185
M8	1.25	8.00	7.78	13.27	12.73	8.00	7.64	0.8	9.2	6.095	6.020	6.86	4	3.3	450
M10	1.5	10.00	9.78	16.27	15.73	10.00	9.64	1	11.2	8.115	8.025	9.15	5	4	892
M12	1.75	12.00	11.73	18.27	17.73	12.00	11.57	1.2	13.7	10.115	10.025	11.43	6	4.8	1,554
M16	2	16.00	15.73	24.33	23.67	16.00	15.57	1.6	17.7	14.142	14.032	16	8	6.8	3,964
M20	2.5	20.00	19.67	30.33	29.67	20.00	19.48	2	22.4	17.23	17.05	19.44	10	8.6	7,536
M24	3	24.00	23.67	36.39	35.61	24.00	23.48	2.4	26.4	19.275	19.065	21.73	12	10.4	13,026
M30	3.5	30.00	29.67	45.39	44.61	30.00	29.48	3	33.4	22.275	22.065	25.15	15.5	13.1	-
M36	4	36.00	35.61	54.46	53.54	36.00	35.38	3.6	39.4	27.275	27.065	30.85	19	15.3	-
M42	4.5	42.00	41.61	63.46	62.54	42.00	41.38	4.2	45.6	32.33	32.08	36.57	24	16.3	-
M48	5	48.00	47.61	72.46	71.54	48.00	47.38	4.8	52.6	36.33	36.08	41.13	28	17.5	-
M56	5.5	56.00	55.54	84.54	83.46	56.00	55.26	5.6	63	41.33	41.08	46.83	34	19	-
M64	6	64.00	63.54	96.54	95.46	64.00	63.26	6.4	71	46.33	46.08	52.53	38	22	-
Tolerance on Length		2.5-3mm: ±0.2		4-6mm: ±0.24		8-10mm: ±0.29		12-16mm: ±0.35		20-30mm: ±0.42					
		35-50mm: ±0.5		55-80mm: ±0.6		90-120mm: ±0.7		130-180mm: ±0.8		200-240mm: ±0.925		260-300mm: ±1.05			

Description	An externally threaded fastener with metric threads, a cylindrical head with a flat chamfered top surface, knurled cylindrical sides and hexagonal recess, made from alloy steel.
Applications/Advantages	High alloy metric socket cap screws are comparable, but not exactly equivalent to U.S. alloy steel socket cap screws. Ideal for precision assembly work with close tolerances and applications needing a well-tooled appearance. Supplies greater tensile strength than equivalent sizes of Class 8.8 or 10.9 hex head cap screws while requiring less surface area or counterbore since the fastener is internally wrenched.
Material	High alloy metric socket cap screws shall be made from an alloy steel which conforms to the following chemical composition requirements-- Carbon: 0.20-0.50%; Phosphorous: 0.035% maximum; Sulfur: 0.035% maximum; and one or more of chromium, nickel, molybdenum or vanadium.
Heat Treatment	High alloy metric socket cap screws shall be heat treated by quenching in oil from above the transformation temperature and reheating to a tempering temperature of 380°C minimum.
Hardness	Rockwell C 39 - 44 (Vickers HV 385 - 435)
Tensile Strength	1220 N/mm ² minimum
Proof Load	1100 N/mm ² minimum
Elongation	8% minimum
Plating	Metric socket cap screws are usually supplied with a plain, black finish.