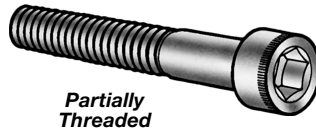
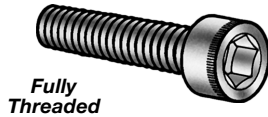


Socket Head Cap Screw Dimensions



Hex Sizes and Head Dimensions

Inch Sizes

Screw Size	No. 0	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 8	No. 10	No. 12	1/4"
Decimal Approx.	0.060"	0.073"	0.086"	0.099"	0.112"	0.125"	0.138"	0.164"	0.190"	0.216"	0.250"
Hex Size	0.050"	1/16"	5/64"	5/64"	3/32"	3/32"	7/64"	9/64"	5/32"	5/32"	3/16"
Head Height	0.060"	0.073"	0.086"	0.099"	0.112"	0.125"	0.138"	0.164"	0.190"	0.216"	1/4"
Head Dia.	0.096"	0.118"	0.140"	0.161"	0.183"	0.205"	0.226"	0.270"	0.312"	0.324"	3/8"

Screw Size	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	1 3/4"	2"	2 1/4"	2 1/2"	3"
Hex Size	1/4"	5/16"	3/8"	3/8"	7/16"	1/2"	5/8"	3/4"	3/4"	7/8"	7/8"	1"	1"	1 1/4"	1 1/2"	1 3/4"	1 3/4"	2 1/4"
Head Height	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	1 3/4"	2"	2 1/4"	2 1/2"	3"
Head Dia.	15/32"	9/16"	21/32"	3/4"	27/32"	15/16"	1 1/8"	1 5/16"	1 1/2"	1 11/16"	1 7/8"	2 1/16"	2 1/4"	2 5/8"	3"	3 3/8"	3 3/4"	4 1/2"

Metric Sizes

Screw Size	M1.6	M2	M2.5	M2.6	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M30	M36
Hex Size, mm	1.5	1.5	2	2	2.5	3	4	5	6	8	10	12	14	14	17	17	19	22	27
Pitch, mm	0.35	0.4	0.45	0.45	0.5	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3	3.5	4
Head Height, mm	1.6	2	2.5	2.6	3	4	5	6	8	10	12	14	16	18	20	22	24	30	36
Head Dia., mm	3	3.8	4.5	5	5.5	7	8.5	10	13	16	18	21	24	27	30	33	36	45	54

Thread Lengths

Screws may be fully or partially threaded. For partially threaded screws, manufacturing standards allow thread lengths to vary between the minimums and maximums listed in the tables below.

Alloy Steel—Inch Sizes

Screw Size	No. 0	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 8	No. 10	No. 12	1/4"	5/16"	3/8"	7/16"
Minimum	1/2"	5/8"	5/8"	5/8"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	1"	1 1/8"	1 1/4"	1 3/8"
Maximum	5/8"	7/8"	7/8"	7/8"	1 3/16"	1 3/16"	1 3/16"	1 5/16"	1 3/8"	1 3/8"	1 1/2"	1 23/32"	1 15/16"	2 11/64"

Screw Size	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	1 3/4"	2"	2 1/4"	2 1/2"	3"
Minimum	1 1/2"	1 5/8"	1 3/4"	2"	2 1/4"	2 1/2"	2 13/16"	3 1/8"	3 7/16"	3 3/4"	4 3/8"	5"	5 5/8"	6 1/4"	7 1/2"
Maximum	2 7/16"	3"	2 15/16"	3 1/4"	3 11/16"	4 1/8"	4 11/16"	5 1/8"	5 21/32"	6 1/8"	7 1/8"	8 1/8"	9"	10"	11 3/4"

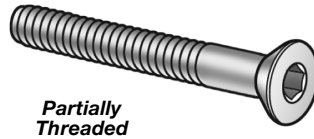
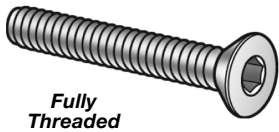
Stainless Steel—Inch Sizes

Screw Size	No. 0	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 8	No. 10	No. 12	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"
Minimum	1/2"	Full	5/8"	5/8"	3/4"	3/4"	3/4"	3/4"	7/8"	7/8"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	1 3/4"	2"	2 1/4"	2 1/2"	2 1/2"
Maximum	1"	Full	1"	1"	1 1/2"	1 1/2"	1 1/2"	2"	2"	1 1/2"	3"	3"	3"	3"	4 1/2"	4"	3 1/2"	4"	4 1/2"	6"

Metric Sizes

Screw Size	M1.6	M2	M2.5	M2.6	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M30	M36
Minimum, mm	Fully	Fully	Fully	Fully	18	20	22	24	28	32	36	40	44	48	52	56	60	72	84
Maximum, mm	Fully	Fully	Fully	Fully	20.5	23.5	26	29	34.3	39.5	44.8	50	54	60.5	64.5	68.5	75	89.5	104

Flat Head Socket Cap Screw Dimensions



Hex Sizes and Head Dimensions

Inch Sizes

Screw Size	No. 0	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 8	No. 10	No. 12	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"
Decimal Equiv.	.060"	.073"	.086"	.099"	.112"	.125"	.138"	.164"	.190"	.216"	.250"	.3125"	.375"	.4375"	.500"	.625"	.750"	.875"	1.00"
Hex Size	.035"	.050"	.050"	1/16"	1/16"	5/64"	5/64"	3/32"	1/8"	1/8"	5/32"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	9/16"	5/8"
Head Height	.044"	.054"	.064"	.073"	.083"	.090"	.097"	.112"	.127"	.134"	.161"	.198"	.234"	.234"	.251"	.324"	.396"	.468"	.540"
Head Dia.	.138"	.168"	.197"	.226"	.255"	.281"	.307"	.359"	.411"	.4375"	.531"	.656"	.781"	.844"	.938"	1.188"	1.438"	1.688"	1.938"

Metric Sizes

Screw Size	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M20
Hex Size, mm	1.3	1.5	2	2.5	3	4	5	6	8	10	10	12
Pitch, mm	0.4	0.45	0.5	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5
Head Height, mm	1.2	1.5	1.7	2.3	2.8	3.3	4.4	5.5	6.5	7	7.5	8.5
Head Dia., mm	4	5	6	8	10	12	16	20	24	27	30	36

Thread Lengths

Screws may be fully or partially threaded. For partially threaded screws, manufacturing standards allow thread lengths to vary between the minimums and maximums listed in the tables below.

Alloy Steel—Inch Sizes

Screw Size	No. 0	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 8	No. 10	No. 12	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"
Decimal Equiv.	.060"	.073"	.086"	.099"	.112"	.125"	.138"	.164"	.190"	.216"	.250"	.3125"	.375"	.4375"	.500"	.625"	.750"	.875"	1.00"
Minimum	Fully	Fully	Fully	Fully	Fully	Fully	1 1/16"	7/8"	7/8"	Fully	1"	1 1/8"	1 1/4"	1 5/16"	1 1/2"	1 3/4"	2"	Fully	2 5/16"
Maximum	Fully	Fully	Fully	Fully	Fully	Fully	1 3/16"	1 5/16"	1 3/8"	Fully	1 1/2"	1 11/16"	1 13/16"	1 3/4"	2 3/8"	2 3/4"	3"	Fully	3 5/8"

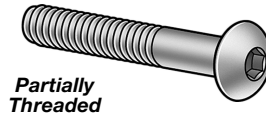
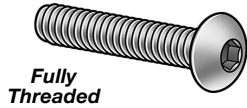
Stainless Steel—Inch Sizes

Screw Size	No. 0	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 8	No. 10	No. 12	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"
Decimal Equiv.	.060"	.073"	.086"	.099"	.112"	.125"	.138"	.164"	.190"	.216"	.250"	.3125"	.375"	.4375"	.500"	.625"	.750"	.875"	1.00"
Minimum	Fully	—	3/4"	—	3/4"	Fully	3/4"	7/8"	7/8"	—	1"	1 1/8"	1 1/4"	Fully	1 1/2"	1 3/4"	1 3/4"	—	—
Maximum	Fully	—	1"	—	1 1/2"	Fully	2"	2"	3"	—	4 1/2"	4"	6"	Fully	4"	6"	5"	—	—

Metric Sizes

Screw Size	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M20
Minimum, mm	Fully	Fully	12	14	16	18	22	26	30	Fully	38	46
Maximum, mm	Fully	Fully	20.5	23.5	26	29	34.25	39.5	44.75	Fully	54	64.5

Button Head Socket Cap Screw Dimensions



Screws may be fully or partially threaded. For partially threaded screws, manufacturing standards allow thread lengths to vary between the minimums and maximums listed in the tables below.

Inch Sizes

Screw Size	No. 0	No. 2	No. 3	No. 4	No. 5	No. 6	No. 8	No. 10	No. 12	1/4"	5/16"	3/8"	1/2"	5/8"
Decimal Approx.	0.060"	0.086"	0.099"	0.112"	0.125"	0.138"	0.164"	0.190"	0.216"	0.250"	0.312"	0.375"	0.500"	0.625"
Hex Size	0.035"	0.05"	1/16"	1/16"	5/64"	5/64"	3/32"	1/8"	5/32"	5/32"	3/16"	7/32"	5/16"	3/8"
Head Height	0.032"	0.046"	0.052"	0.059"	0.066"	0.073"	0.087"	0.101"	0.114"	0.132"	0.166"	0.199"	0.265"	0.331"
Head Diameter	0.114"	0.164"	0.188"	0.213"	0.238"	0.262"	0.312"	0.361"	0.413"	0.437"	0.547"	0.656"	0.875"	1.000"
Min. Thread Lg.	Fully	5/8"	Fully	1 1/16"	Fully	3/4"	1 3/16"	7/8"	Fully	1"	1 1/8"	1 1/4"	1 1/2"	Fully

Metric Sizes

Screw Size	M2	M2.5	M3	M4	M5	M6	M8	M10	M12
Hex Size	1.3	1.5	2	2.5	3	4	5	6	8
Head Height	1.3	1.5	1.65	2.2	2.75	3.3	4.4	5.5	6.6
Head Diameter	3.5	4.5	5.7	7.6	9.5	10.5	14	17.5	21
Minimum Thread Lg., mm	Fully	Fully	18	20	22	24	28	32	36
Maximum Thread Lg., mm	Fully	Fully	Fully	Fully	Fully	Fully	Fully	Fully	Fully