

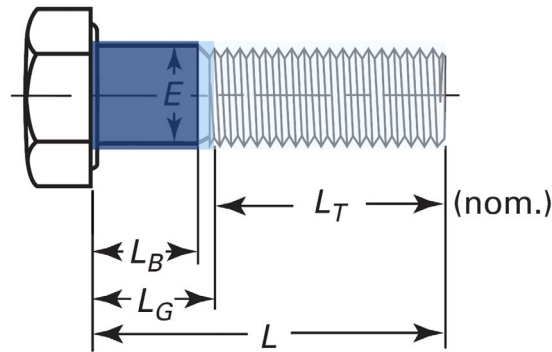


NiCKEL
SYSTEMS

Hex Head Cap Screws Partially Threaded Minimum Body & Maximum Grip Gaging Lengths



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Minimum Body Length L_B

Maximum Grip Length L_G

Thread Length L_T

Nominal Length L	Nominal Diameter Size, E														
	1/4	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 1/4	0.25 / 0.50	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread
1 3/8	0.38 / 0.63	0.22 / 0.50	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread
1 1/2	0.50 / 0.75	0.35 / 0.62	0.19 / 0.50	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread
1 5/8	0.62 / 0.88	0.47 / 0.75	0.31 / 0.62	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread
1 3/4	0.75 / 1.00	0.60 / 0.88	0.75 / 0.44	0.63 / 0.27	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread
1 7/8	1.12 / 0.88	1.00 / 0.72	0.56 / 0.88	0.39 / 0.75	0.24 / 0.63	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread
2	1.00 / 1.25	0.85 / 1.12	0.69 / 1.00	0.52 / 0.88	0.38 / 0.75	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread
2 1/8	1.38 / 1.12	1.25 / 0.97	0.81 / 1.12	0.64 / 1.00	0.88 / 0.49	0.33 / 0.75	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread
2 1/4	1.25 / 1.50	1.10 / 1.38	0.94 / 1.25	0.77 / 1.12	0.62 / 1.00	0.45 / 0.88	0.30 / 0.75	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread
2 3/8	1.38 / 1.62	1.22 / 1.50	1.06 / 1.38	0.89 / 1.25	0.74 / 1.12	0.58 / 1.00	0.42 / 0.88	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread
2 1/2	1.50 / 1.75	1.35 / 1.62	1.19 / 1.50	1.02 / 1.38	0.86 / 1.25	0.75 / 1.12	0.55 / 1.00	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread
2 5/8	1.62 / 1.88	1.47 / 1.75	1.31 / 1.62	1.14 / 1.50	0.99 / 1.38	0.83 / 1.25	0.67 / 1.12	0.38 / 0.88	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread
2 3/4	1.75 / 2.00	1.60 / 1.88	1.44 / 1.75	1.27 / 1.62	1.12 / 1.50	0.96 / 1.38	0.80 / 1.25	0.56 / 1.00	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread
2 7/8	1.88 / 2.12	1.72 / 2.00	1.56 / 1.88	1.39 / 1.75	1.24 / 1.62	1.08 / 1.50	0.92 / 1.38	0.62 / 1.12	0.32 / 0.88	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread
3	2.00 / 2.52	1.85 / 2.12	1.69 / 2.00	1.52 / 1.88	1.36 / 1.75	1.21 / 1.62	1.05 / 1.50	0.75 / 1.25	0.44 / 1.00	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread
3 1/4	2.25 / 2.50	2.10 / 2.38	1.94 / 2.25	1.77 / 2.12	1.62 / 2.00	1.46 / 1.88	1.30 / 1.75	1.00 / 1.50	0.69 / 1.25	0.38 / 1.00	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread
3 1/2	2.50 / 2.75	2.35 / 2.62	2.19 / 2.50	2.02 / 2.38	1.86 / 2.25	1.71 / 2.12	1.55 / 2.00	1.25 / 1.75	0.94 / 1.50	0.62 / 1.25	Full Thread	Full Thread	Full Thread	Full Thread	Full Thread
3 3/4	2.75 / 3.00	2.60 / 2.88	2.44 / 2.75	2.27 / 2.62	2.12 / 2.50	1.96 / 2.38	1.80 / 2.25	1.50 / 2.00	1.19 / 1.75	0.88 / 1.50	0.54 / 1.25	Full Thread	Full Thread	Full Thread	Full Thread
4	3.00 / 3.25	2.85 / 3.12	2.69 / 3.00	2.52 / 2.88	2.36 / 2.75	2.21 / 2.62	2.05 / 2.50	1.75 / 2.25	1.44 / 2.00	1.12 / 1.75	0.79 / 1.50	0.54 / 1.25	Full Thread	Full Thread	Full Thread
4 1/4	3.25 / 3.50	3.10 / 3.38	2.94 / 3.25	2.77 / 3.12	2.62 / 3.00	2.46 / 2.88	2.30 / 2.75	2.00 / 2.50	1.69 / 2.25	1.38 / 2.00	1.04 / 1.75	0.79 / 1.50	Full Thread	Full Thread	Full Thread
4 1/2	3.50 / 3.75	3.35 / 3.62	3.19 / 3.50	3.02 / 3.38	2.86 / 3.25	2.71 / 3.12	2.55 / 3.00	2.25 / 2.75	1.94 / 2.50	1.62 / 2.25	1.29 / 2.00	1.04 / 1.75	0.79 / 1.50	Full Thread	Full Thread
4 3/4	3.75 / 4.00	3.60 / 3.88	3.44 / 3.75	3.27 / 3.62	3.12 / 3.50	2.96 / 3.38	2.80 / 3.25	2.50 / 3.00	2.19 / 2.75	1.88 / 2.50	1.54 / 2.25	1.29 / 2.00	1.04 / 1.75	0.67 / 1.50	Full Thread
5	4.00 / 4.25	3.85 / 4.12	3.69 / 4.00	3.52 / 3.88	3.36 / 3.75	3.21 / 3.62	3.05 / 3.50	2.75 / 3.25	2.44 / 3.00	2.12 / 2.75	1.79 / 2.50	1.54 / 2.25	1.29 / 2.00	1.04 / 1.75	0.92 / 1.75
5 1/4	4.25 / 4.50	4.10 / 4.38	3.94 / 4.25	3.77 / 4.12	3.62 / 4.00	3.46 / 3.88	3.30 / 3.75	3.00 / 3.50	2.69 / 3.25	2.38 / 3.00	2.04 / 2.75	1.79 / 2.50	1.54 / 2.25	1.17 / 2.00	0.92 / 1.75
5 1/2	4.50 / 4.75	4.35 / 4.62	4.19 / 4.50	4.02 / 4.38	3.87 / 4.25	3.71 / 4.12	3.55 / 4.00	3.25 / 3.75	2.94 / 3.50	2.62 / 3.25	2.29 / 3.00	2.04 / 2.75	1.79 / 2.50	1.42 / 2.25	0.92 / 1.75
5 3/4	4.75 / 5.00	4.60 / 4.88	4.44 / 4.75	4.27 / 4.63	4.12 / 4.50	3.96 / 4.38	3.80 / 4.25	3.50 / 4.00	3.75 / 3.19	3.50 / 2.88	2.54 / 3.25	2.29 / 3.00	2.75 / 2.04	2.50 / 1.67	0.92 / 1.75
6	5.25 / 5.00	5.12 / 4.85	4.69 / 5.00	4.52 / 4.88	4.36 / 4.75	4.21 / 4.62	4.05 / 4.50	3.75 / 4.25	3.44 / 4.00	3.12 / 3.75	2.79 / 3.50	2.54 / 3.25	2.29 / 3.00	1.92 / 2.75	0.92 / 1.75



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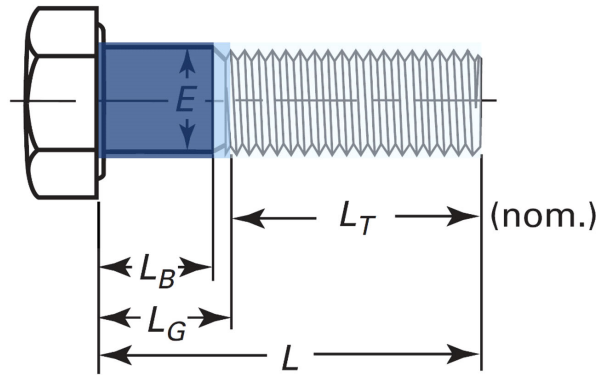
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Minimum Body Length L_B

Maximum Grip Length L_G

Thread Length L_T

Nominal Length L , L_B Min / L_G max	Nominal Length	Nominal Diameter Size													
		1/4	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
6 1/4	5.00 / 5.25	5.12 / 4.85	4.69 / 5.00	4.52 / 4.88	4.36 / 4.75	4.21 / 4.62	4.05 / 4.50	3.75 / 4.25	3.44 / 4.00	3.12 / 3.75	2.79 / 3.50	2.54 / 3.25	2.54 / 3.25	1.92 / 2.75	
6 1/2	5.25 / 5.50	5.10 / 5.38	4.94 / 5.25	4.77 / 5.12	4.62 / 5.00	4.46 / 4.88	4.30 / 4.75	4.00 / 4.50	3.69 / 4.25	3.38 / 4.00	3.04 / 3.75	2.79 / 3.50	2.54 / 3.25	2.17 / 3.00	
6 3/4	5.50 / 5.75	5.35 / 5.62	5.19 / 5.50	5.02 / 5.38	4.86 / 5.25	4.71 / 5.12	4.55 / 5.00	4.25 / 4.75	3.94 / 4.50	3.63 / 4.25	3.29 / 4.00	3.04 / 3.75	2.79 / 3.50	2.42 / 3.25	
7	5.75 / 6.00	5.60 / 5.88	5.44 / 5.75	5.27 / 5.62	5.12 / 5.50	4.96 / 5.38	4.80 / 5.25	4.50 / 5.00	4.19 / 4.75	3.88 / 4.50	3.54 / 4.25	3.29 / 4.00	3.04 / 3.75	2.67 / 3.50	
7 1/4	6.00 / 6.25	5.85 / 6.12	5.69 / 6.00	5.52 / 5.88	5.36 / 5.75	5.20 / 5.62	5.05 / 5.50	4.75 / 5.25	4.44 / 5.00	4.12 / 4.75	3.79 / 4.50	3.54 / 4.25	3.29 / 4.00	2.92 / 3.75	
7 1/2	6.25 / 6.50	6.10 / 6.38	5.94 / 6.25	5.77 / 6.12	5.62 / 6.00	5.46 / 5.88	5.30 / 5.75	5.00 / 5.50	4.69 / 5.25	4.38 / 5.00	4.04 / 4.75	3.79 / 4.50	3.54 / 4.25	3.17 / 4.00	
7 3/4	6.50 / 6.75	6.35 / 6.62	6.19 / 6.50	6.02 / 6.38	5.87 / 6.25	5.71 / 6.12	5.55 / 6.00	5.25 / 5.75	4.94 / 5.50	4.52 / 5.25	4.29 / 5.00	4.04 / 4.75	3.79 / 4.50	3.42 / 4.25	
8	6.75 / 7.00	6.60 / 6.88	6.44 / 6.75	6.27 / 6.62	6.12 / 6.50	5.96 / 6.38	5.80 / 6.25	5.50 / 6.00	5.19 / 5.75	4.88 / 5.50	4.54 / 5.25	4.29 / 5.00	4.04 / 4.75	3.67 / 4.50	
8 1/4	7.00 / 7.25	6.85 / 7.12	6.69 / 7.00	6.52 / 6.88	6.36 / 6.75	6.21 / 6.62	6.05 / 6.50	5.75 / 6.25	5.44 / 6.00	5.12 / 5.75	4.79 / 5.50	4.54 / 5.25	4.29 / 5.00	3.92 / 4.75	
8 1/2	7.25 / 7.50	7.10 / 7.38	6.94 / 7.25	6.77 / 7.12	6.62 / 7.00	6.46 / 6.88	6.30 / 6.75	6.00 / 6.50	5.69 / 6.25	5.38 / 6.00	5.04 / 5.75	4.79 / 5.50	4.54 / 5.25	4.17 / 5.00	
8 3/4	7.50 / 7.75	7.35 / 7.62	7.19 / 7.50	7.02 / 7.38	6.86 / 7.25	6.71 / 7.12	6.55 / 7.00	6.25 / 6.75	5.94 / 6.50	5.62 / 6.25	5.29 / 6.00	5.04 / 5.75	4.79 / 5.50	4.42 / 5.25	
9	7.75 / 8.00	7.60 / 7.88	7.44 / 7.75	7.27 / 7.62	7.12 / 7.50	6.96 / 7.38	6.80 / 7.25	6.50 / 7.00	6.19 / 6.75	5.88 / 6.50	5.54 / 6.25	5.29 / 6.00	5.04 / 5.75	4.67 / 5.50	
9 1/4	8.00 / 8.25	7.85 / 8.12	7.69 / 8.00	7.52 / 7.88	7.36 / 7.75	7.21 / 7.62	7.05 / 7.50	6.75 / 7.25	6.44 / 7.00	6.12 / 6.75	5.79 / 6.50	5.54 / 6.25	5.29 / 6.00	4.92 / 5.75	
9 1/2	8.25 / 8.50	8.10 / 8.38	7.94 / 8.25	7.77 / 8.12	7.62 / 8.00	7.46 / 7.88	7.30 / 7.75	7.00 / 7.50	6.69 / 7.25	6.38 / 7.00	6.04 / 6.75	5.79 / 6.50	5.54 / 6.25	5.17 / 6.00	
9 3/4	8.50 / 8.75	8.35 / 8.62	8.19 / 8.50	8.02 / 8.38	7.86 / 8.25	7.71 / 8.12	7.55 / 8.00	7.25 / 7.75	6.94 / 7.50	6.62 / 7.25	6.29 / 7.00	6.04 / 6.75	5.79 / 6.50	5.42 / 6.25	
10	8.75 / 9.00	8.60 / 8.88	8.44 / 8.75	8.27 / 8.62	8.12 / 8.50	7.96 / 8.38	7.80 / 8.25	7.50 / 8.00	7.19 / 7.75	6.88 / 7.50	6.54 / 7.25	6.29 / 7.00	6.04 / 6.75	5.67 / 6.50	
11	9.75 / 10.00	9.60 / 9.88	9.44 / 9.75	9.27 / 9.62	9.12 / 9.50	8.96 / 9.38	8.80 / 9.25	8.50 / 9.00	8.19 / 8.75	7.88 / 8.50	7.54 / 8.25	7.29 / 8.00	7.04 / 7.75	6.67 / 7.50	
12	10.75 / 11.00	10.60 / 10.88	10.44 / 10.75	10.27 / 10.62	10.12 / 10.50	9.96 / 10.38	9.80 / 10.25	9.50 / 10.00	9.19 / 9.75	8.88 / 9.50	8.54 / 9.25	8.29 / 9.00	8.04 / 8.75	7.67 / 8.50	