

ISO 4762 - Hexagon socket Head Cap Screws

Current norm: DIN EN ISO 4762

Equivalent norms: DIN 912; CSN 021143; PN 82302; UNI 5931;



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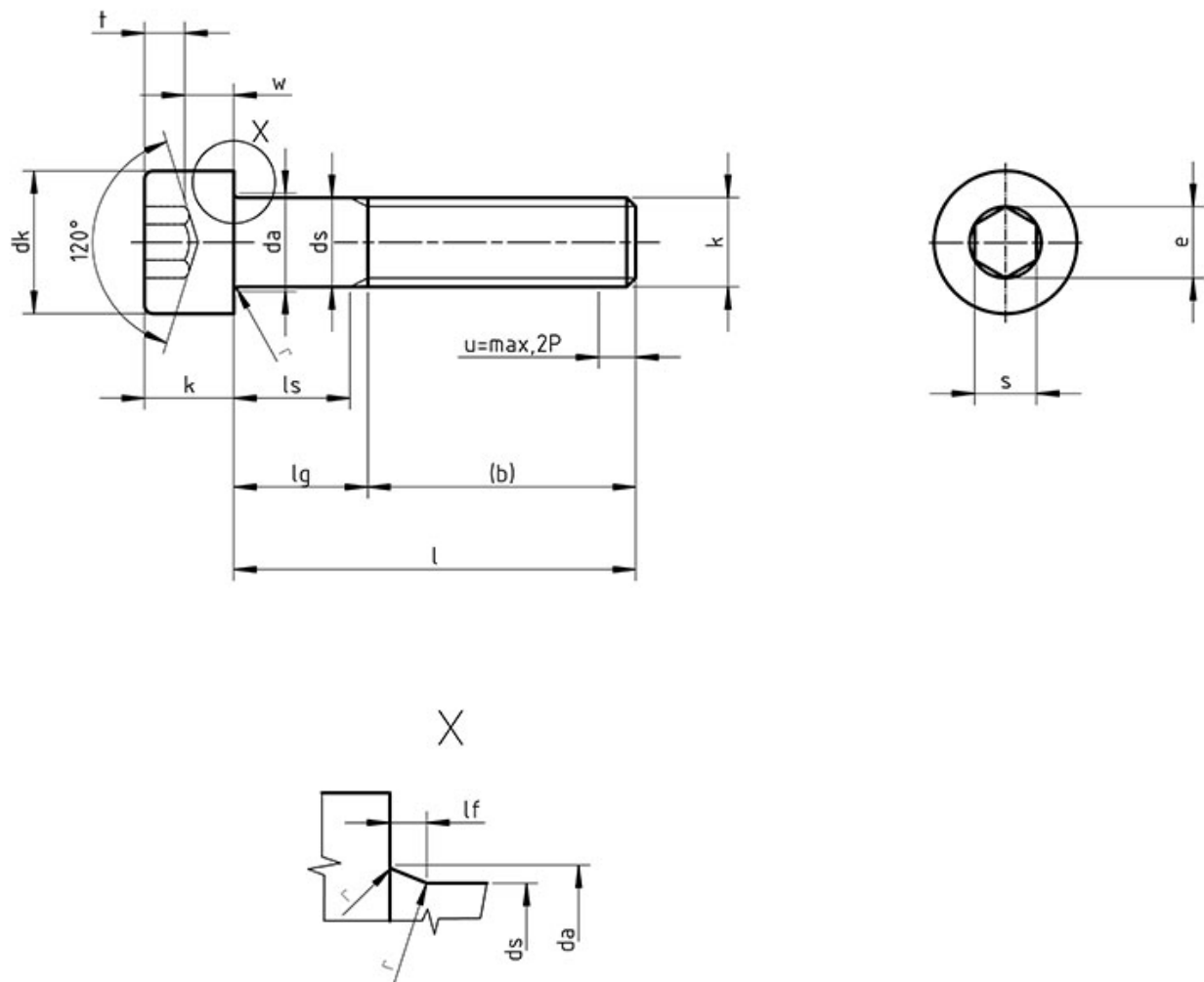
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Legend:

- d** - the nominal diameter of the thread
- k** - head height
- t** - groove depth
- dk** - head diameter
- L** - length of bolt
- s** - size of the internal hexagon

Makings:

Steel: 8.8, 10.9, 12.9

Stainless: A2, A4

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Table according to ISO 4762:

dimensions in mm									
Thread d		M1,6	M2	M2,5	M3	M4	M5	M6	
P		0,35	0,4	0,45	0,5	0,7	0,8	1	
b		15	16	17	18	20	22	24	
dk	max.	3,00	3,80	4,50	5,50	7,00	8,50	10,00	
	max. for grooved head	3,14	3,98	4,68	5,68	7,22	8,72	10,22	
	min.	2,86	3,62	4,32	5,32	6,78	8,28	9,78	
da	max.	2	2,6	3,1	3,6	4,7	5,7	6,8	
ds	max.	1,60	2,00	2,50	3,00	4,00	5,00	6,00	
	min.	1,46	1,86	2,36	2,86	3,82	4,82	5,82	
e	min.	1,733	1,733	2,303	2,873	3,443	4,583	5,723	
h	max.	0,34	0,51	0,51	0,51	0,6	0,6	0,68	
k	max.	1,60	2,00	2,50	3,00	4,00	5,00	6,0	
	min.	1,46	1,86	2,36	2,86	3,82	4,82	5,7	
r	min.	0,1	0,1	0,1	0,1	0,2	0,2	0,25	
s	nominal	1,5	1,5	2	2,5	3	4	5	
	max.	1,58	1,58	2,08	2,58	3,08	4,095	5,14	
	min.	1,52	1,52	2,02	2,52	3,02	4,020	5,02	
t	min.	0,7	1	1,1	1,3	2	2,5	3	
✓ v	max.	0,16	0,2	0,25	0,3	0,4	0,5	0,6	

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Thread d			M1,6		M2		M2,5		
l			ls	lg	ls	lg	ls	lg	
nominal	min.	max.	min.	max.	min.	max.	min.	max.	
2,5	2,3	2,7	full thread						
3	2,8	3,2	full thread						
4	3,76	4,24	full thread						
5	4,76	5,24	full thread						
6	5,76	6,24	full thread						
8	7,71	8,29	full thread						
10	9,71	10,29	full thread						
12	11,65	12,35	full thread						
16	15,65	16,35	full thread						
20	19,58	20,42			2	4	full thread		
25	24,58	25,42					5,75	8	
30	29,58	30,42							
35	34,5	35,5							
40	39,5	40,5							
45	44,5	45,5							
50	49,5	50,5							
55	54,4	55,6							
60	59,4	60,6							
▼									

90	89,3	90,7							
100	99,3	100,7							
110	109,3	110,7							
120	119,3	120,7							
130	129,2	130,8							
140	139,2	140,8							
150	149,2	150,8							
160	159,2	160,8							
180	179,2	180,8							
200	199,07	200,92							
220	219,07	220,92							
240	239,07	240,92							
260	258,95	261,05							
280	278,95	281,05							
300	298,95	301,05							
thread d			(M14)		M16		M20		
l			ls	lg	ls	lg	ls	lg	
nominal	min.	max.	min.	max.	min.	max.	min.	max.	
16	15,65	16,35							
20	19,58	20,42	full thread						
25	24,58	25,42	full thread		full thread				
▼									

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45	44,5	45,5	full thread		full thread		full thread	
50	49,5	50,5	full thread		full thread		full thread	
55	54,4	55,6	full thread		full thread		full thread	
60	59,4	60,6	10	20	full thread		full thread	
65	64,4	65,6	15	25	11	21	full thread	
70	69,4	70,6	20	30	16	26	full thread	
80	79,4	80,6	30	40	26	36	15,5	28
90	89,3	90,7	40	50	36	46	25,5	38
100	99,3	100,7	50	60	46	56	35,5	48
110	109,3	110,7	60	70	56	66	45,5	58
120	119,3	120,7	70	80	66	76	55,5	68
130	129,2	130,8	80	90	76	86	65,5	78
140	139,2	140,8	90	100	86	96	75,5	88
150	149,2	150,8			96	106	85,5	98
160	159,2	160,8			106	116	95,5	108
180	179,2	180,8					115,5	128
200	199,075	200,925					135,5	148
220	219,075	220,925						
240	239,075	240,925						
260	258,95	261,05						
280	278,95	281,05						
300	298,95	301,05						

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