

ISO 10642 - Hexagon socket countersunk head cap screws

Current norm: DIN EN ISO 10462

Equivalent norms: DIN 7991; UNI 5933;



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Thread Gauge Products Private Limited

Thread Plug Gage

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Directions

Website

SEND INQUIRY ([HTTPS://WWW.FASTENERS.EU/INQUIRY/ADD/](https://www.fasteners.eu/inquiry/add/))

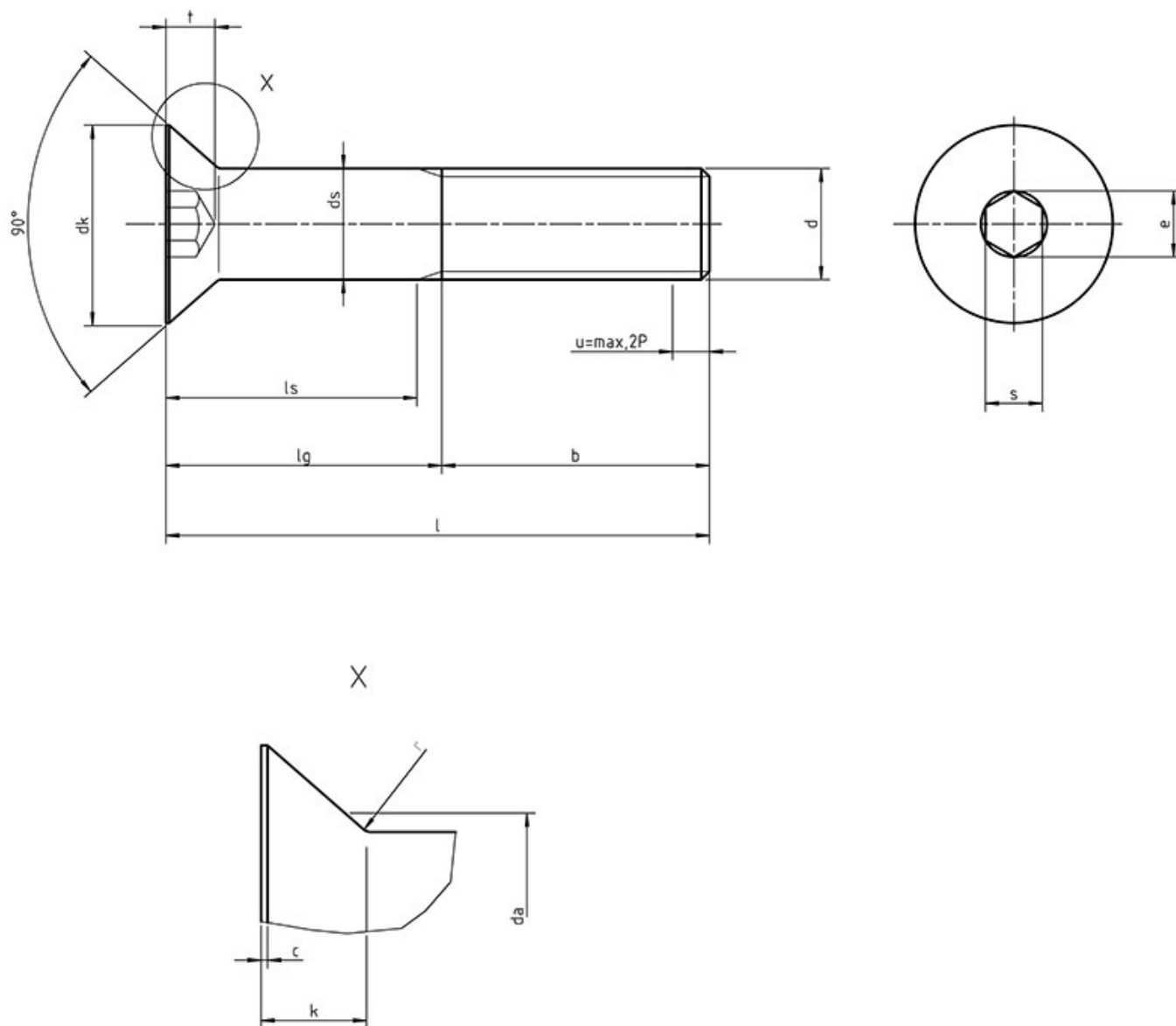
- Buy ISO 10642
- Technical information
- 3D model
- Inquiries
- Overstock

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Legend:

- b** - length of the thread (at least)
- l** - length of bolt
- d** - the nominal diameter of the thread
- k** - head height
- e** - the diameter of the circumscribed circle (not less than)
- ds** - diameter of the screw shank
- t** - groove depth
- dk** - head diameter
- s** - size of the internal hexagon



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Steel: 8.8, 10.9, 12.9
Stainless: A2, A4
Plastic: -
Non Ferrous: -
Thread: 6g

Notes:
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Table according to DIN 7991:

dimensions in mm								
Thread d		M3	M4	M5	M6	M8	M10	M12
P		0,5	0,7	0,8	1	1,25	1,5	1,75
a	2° 0	90°						
b	l?125mm	12	14	16	18	22	26	30
	125<l?200mm	-	-	-	24	28	32	36
	l>200mm	-	-	-	-	-	45	49
c	approx.	0,2	0,3	0,3	0,3	0,4	0,5	0,5
dk	nominal=max.	6	8	10	12	16	20	24
	min.	5,7	7,64	9,64	11,57	15,57	19,48	23,48
da	max.	3,6	4,7	5,7	6,8	9,2	11,2	13,7
ds	nominal=max.	3	4	5	6	8	10	12
	min.	2,86	3,82	4,82	5,82	7,78	9,78	11,73
e	min.	2,3	2,87	3,44	4,58	5,72	6,86	9,15
k	max.	1,7	2,3	2,8	3,3	4,4	5,5	6,5
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	max.		2,1	2,6	3,1	4,12	5,14	6,14	8,175
t	nominal=max.		1,2	1,8	2,3	2,5	3,5	4,4	4,6
	min.		0,95	1,5	2,05	2,25	3,2	4,1	4,3
Thread d			M3		M4		M5		M
l			lengths ls and lg						
nominal	min.	max.	ls min.	lg max.	ls min.	lg max.	ls min.	lg max.	l n
8	7,71	8,29	-	3,2	-	4,4	-	5,2	-
10	9,71	10,29	-	3,2	-	4,4	-	5,2	-
12	11,65	12,35	-	3,2	-	4,4	-	5,2	-
16	15,65	16,35	-	3,2	-	4,4	-	5,2	-
20	19,58	20,42	-	3,2	-	4,4	-	5,2	-
25	24,58	25,42	10,5	13	-	4,4	-	5,2	-
30	29,58	30,42	15,5	18	12,5	16	-	5,2	-
35	34,5	35,5			17,5	21	15	19	-
40	39,5	40,5			22,5	26	20	24	1
50	49,5	50,5					30	34	2
60	59,4	60,6							
70	69,4	70,6							
Thread d			(M14)		M16		(M18)		M
l			lengths ls and lg						

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25	24,58	25,42	-	13					
30	29,58	30,42	-	13	-	13,5			
35	34,5	35,5	-	13	-	13,5	-	15,5	-
40	39,5	40,5	-	13	-	13,5	-	15,5	-
50	49,5	50,5	-	13	-	13,5	-	15,5	-
60	59,4	60,6	16	26	-	13,5	-	15,5	-
70	69,4	70,6	26	36	22	32	15,5	28	-
80	79,4	80,6	36	46	32	42	25,5	38	2
90	89,3	90,7			42	52	35,5	48	3
100	99,3	100,7					45,5	58	4
70	69,4	70,6							

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