

# INOXMARE®

## HEXAGON SOCKET COUNTERSUNK SCREW



### DATASHEET ISO 10642 SIM. DIN 7991

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# ISO 10642 SIM. DIN 7991 TECHNICAL SPECIFICATIONS

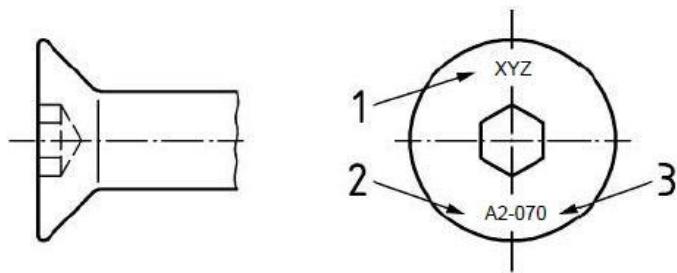
ISO 10642 replaces DIN 7991. There is limited interchangeability of the individual dimensions. Head height and head diameter have been partially changed. Nominal diameters M18, M22 and M24 are removed.

**ATTENTION!** According to ISO 10642, some lengths should be partially threaded. For this reason, the fully threaded version of these sizes is indicated with "SIM." (similar).

<b>Material</b>	Stainless steel
<b>Quality</b>	A2 / A4
<b>Property class</b>	050 / 070 / 080
<b>Surface</b>	Blank
<b>Product class</b>	A
<b>Tolerances</b>	ISO 4759-1
<b>Mechanical properties</b>	ISO 3506-1
<b>Measurement letters and notations</b>	ISO 225
<b>Thread tolerance class</b>	6g
<b>Thread according to</b>	ISO 965-1
<b>General requirements</b>	ISO 8992

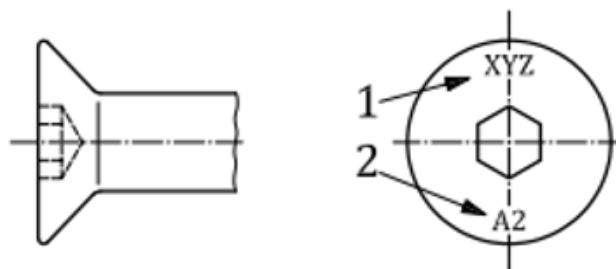
Starting from a thread diameter of M5 and  $b \geq 3d$  our countersunk screws are stamped according to DIN3506-1.

1. Manufacturer's ID
2. Material
3. Property class



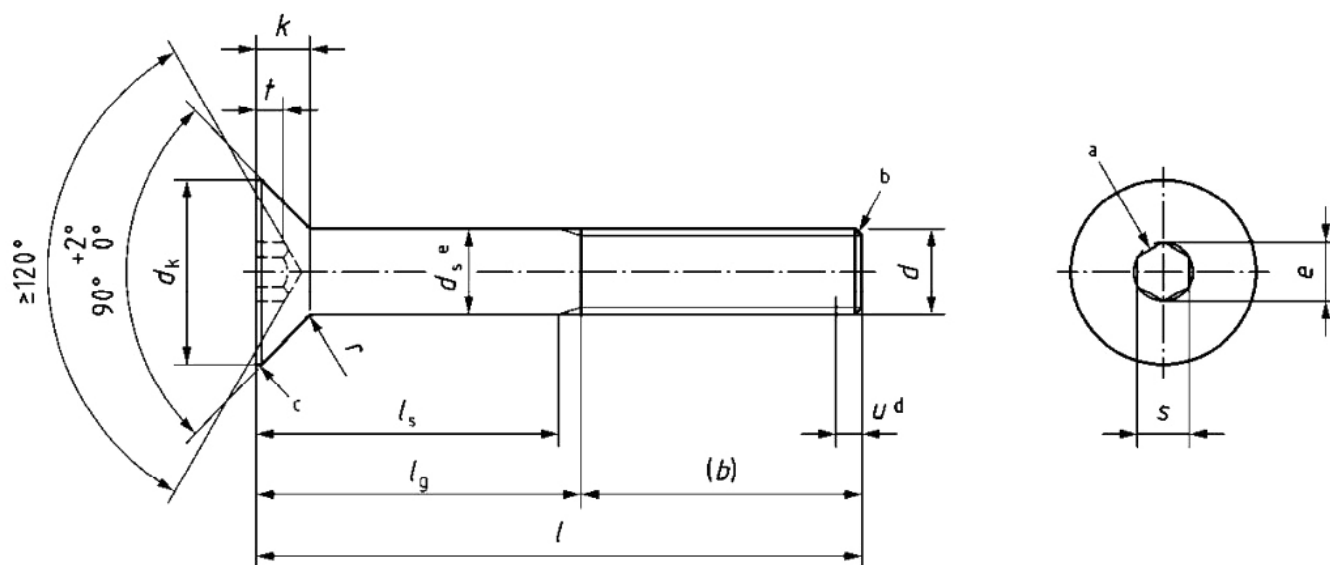
Starting from a thread diameter of M5 and  $b \leq 3d$  our countersunk screws are stamped according to DIN3506-1.

1. Manufacturer's ID
2. Material



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# DIMENSIONS (MM)



Thread d		M2	M2,5	M3	M4	M5	M6	M8	M10	M12	(M14)	M16	M20
$p^a$		0,4	0,45	0,5	0,7	0,8	1	1,25	1,5	1,75	2	2	2,5
$b^b$	ref.	-	-	18	20	22	24	28	32	36	42	48	60
$d_k$	In fact min.	3,70	4,80	5,54	7,53	9,43	11,34	15,24	19,22	23,12	26,52	29,01	35,40
	In fact max.	4,09	5,08	5,81	7,96	10,07	12,16	16,43	20,69	24,81	28,31	30,61	36,75
$d_a$	max.	2,36	2,74	3,30	4,40	5,50	6,60	8,54	10,62	13,50	15,50	17,50	22,00
$d_s$	max.	2,00	2,50	3,00	4,00	5,00	6,00	8,00	10,00	12,00	14,00	16,00	20,00
	min.	1,86	2,36	2,86	3,82	4,82	5,82	7,78	9,78	11,73	13,73	15,73	19,67
$k$	max.	1,35	1,69	1,86	2,48	3,10	3,72	4,96	6,20	7,44	8,40	8,80	10,16
	min.	1,13	1,41	1,52	2,12	2,67	3,22	4,37	5,56	6,71	7,59	7,87	9,04
$r$	min.	0,1	0,1	0,1	0,2	0,20	0,25	0,4	0,4	0,6	0,6	0,6	0,8
$e^{c,d}$	min.	1,454	1,733	2,303	2,873	3,443	4,583	5,723	6,863	9,149	11,429	11,429	13,716
$t$	max.	0,85	1,15	1,25	1,65	2,00	2,50	3,20	3,90	4,90	5,10	5,40	6,40
	min.	0,75	1,00	1,10	1,40	1,75	2,20	2,90	3,50	4,30	4,50	4,80	5,60
$s^d$	nom.	1,3	1,5	2	2,5	3	4	5	6	8	10	10	12
	max.	1,360	1,560	2,080	2,580	3,080	4,095	5,140	6,140	8,175	10,175	10,175	12,212
	min.	1,320	1,520	2,020	2,520	3,020	4,020	5,020	6,020	8,025	10,025	10,025	12,032

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# DIMENSIONS (MM)

No- minal size	Length l		M2		M2,5		M3		M4		M5		M6	
	min.	max.	l <sub>s</sub> min.	l <sub>g</sub> max.	l <sub>s</sub> min.	l <sub>g</sub> max.	l <sub>s</sub> min.	l <sub>g</sub> max.	l <sub>s</sub> min.	l <sub>g</sub> max.	l <sub>s</sub> min.	l <sub>g</sub> max.	l <sub>s</sub> min.	l <sub>g</sub> max.
5	4,76	5,24												
6	5,76	6,24												
8	7,71	8,29												
10	9,71	10,29												
12	11,65	12,35												
16	15,65	16,35												
20	19,58	20,42												
25	24,58	25,42												
30	29,58	30,42					9,5	12	6,5	10				
35	34,50	35,50							11,5	15	9	13		
40	39,50	40,50							16,5	20	14	18	11	16
45	44,50	45,50									29	23	16	21
50	49,50	50,50									24	28	21	26
(55)	54,40	55,60											26	31
60	59,40	60,60											31	36
(65)	64,40	65,60												
70	69,40	70,60												
80	79,40	80,60												
90	89,30	90,70												
100	99,30	100,7												
110	109,3	110,7												

Length dimensions for the diameters M8-M20 can be found on the next page.

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# DIMENSIONS (MM)

No- minal size	Length l		M8		M10		M12		(M14)		M16		M20	
	min.	max.	l <sub>s</sub> min.	l <sub>g</sub> max.	l <sub>s</sub> min.	l <sub>g</sub> max.	l <sub>s</sub> min.	l <sub>g</sub> max.	l <sub>s</sub> min.	l <sub>g</sub> max.	l <sub>s</sub> min.	l <sub>g</sub> max.	l <sub>s</sub> min.	l <sub>g</sub> max.
16	15,65	16,35												
20	19,58	20,42									Screws of short lengths			
25	24,58	25,42												
30	29,58	30,42												
35	34,5	35,5												
40	39,5	40,5												
45	44,5	45,5					Full thread							
50	49,5	50,5	15,75	22										
55	54,4	55,6	20,75	27	15,5	23								
60	59,4	60,6	25,75	32	20,5	28								
65	64,4	65,6	30,75	37	25,5	33	20,25	29						
70	69,4	70,6	35,75	42	30,5	38	25,25	34	18	28				
80	79,4	70,6	45,75	52	40,5	48	35,25	44	28	38	22	32		
90	89,3	90,7			50,5	58	45,25	54	38	48	32	42		
100	99,3	100,7			60,5	68	55,25	64	48	58	42	52	27,5	40
110	109,3	110,7												

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