

HEXAGON SOCKET COUNTERSUNK SCREW



DATASHEET ISO 10642 SIM. DIN 7991

FASTENERS | MARINE HARDWARE | FITTINGS | SOLAR

ISO 10642 SIM. DIN 7991

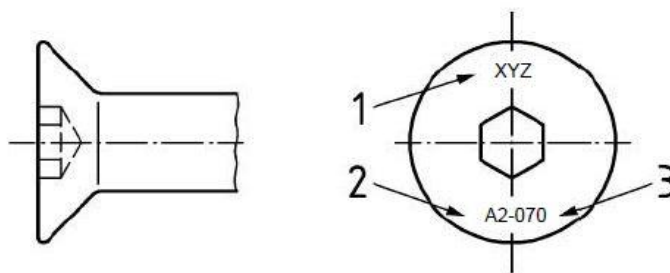
TECHNICAL SPECIFICATIONS

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.

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

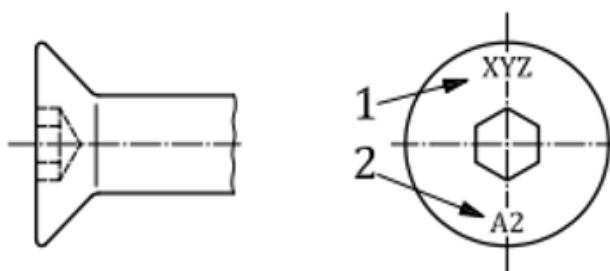
Starting from a thread diameter of M5 and $b \geq 3d$ our countersunk screws are stamped according to DIN3506-1.

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



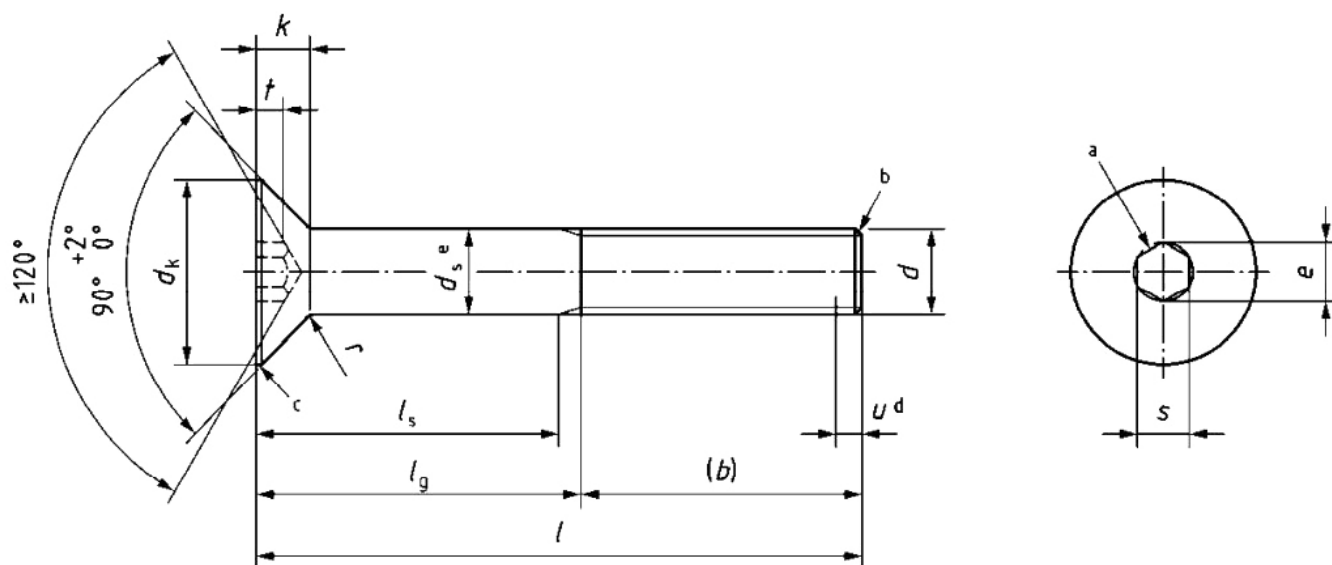
Starting from a thread diameter of M5 and $b \leq 3d$ our countersunk screws are stamped according to DIN3506-1.

1. Manufacturer's ID
2. Material



FASTENERS | MARINE HARDWARE | FITTINGS | SOLAR

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

FASTENERS | MARINE HARDWARE | FITTINGS | SOLAR

DIMENSIONS (MM)

					M2,5		M3		M4		M5		M6	
No- minal size	min.	max.	l _s min.	l _g max.	l _s min.	l _g max.	l _s min.	l _g max.	l _s min.	l _g max.	l _s min.	l _g max.	l _s min.	l _g max.
5	4,76	5,24												
6	5,76	6,24									Screws of short lengths			
8	7,71	8,29												
10	9,71	10,29												
12	11,65	12,35												
16	15,65	16,35					Full thread							
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			Lengths to be defined be- tween buyer and manufac- turer								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.

WE'LL BE PLEASED TO ADVISE FOR YOUR APPLICATION.

T +49(0)202 / 26 32-0
info@wasi.de
www.wasi.de



DIMENSIONS (MM)

Length l			M8		M10		M12		(M14)		M16		M20	
No- minal size	min.	max.	l _s min.	l _g max.	l _s min.	l _g max.	l _s min.	l _g max.	l _s min.	l _g max.	l _s min.	l _g max.	l _s min.	l _g 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												

WE'LL BE PLEASED TO ADVISE FOR YOUR APPLICATION.

T +49(0)202 / 26 32-0
info@wasi.de
www.wasi.de

