

UDC 621.882.215.3.091.8

August 1990

Cross recessed countersunk flat head screws

**DIN**  
**965**

Senkschrauben mit Kreuzschlitz

Supersedes December 1984 edition.

In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

This standard should be used together with ISO 7046. For details, see Explanatory notes. It is intended to withdraw the present standard by 31 July 1995 at the latest.

Dimensions in mm

**1 Scope and field of application**

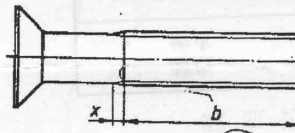
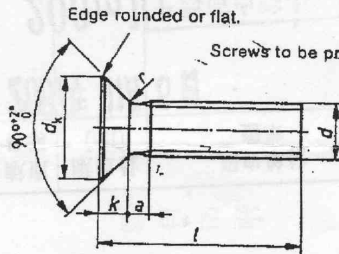
This standard specifies requirements for M 1,6 to M 10 cross recessed countersunk head screws assigned to product grade A. See DIN 962 (or the standards referred to therein) for special screw types or finishes.

If, in special cases, screws are to comply with specifications other than those given in this standard (e.g. regarding property class or material) these shall be selected in accordance with the relevant standards.

**2 Dimensions**

Countersunk head screw threaded up to the head (specified in table 1 above dashed line)

Countersunk head screw with unthreaded portion of shank (specified in table 1 below dashed line)<sup>1)</sup>

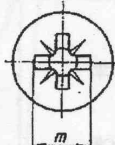
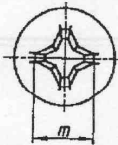


Screws to be provided with DIN 78 - Ko end.

Other dimensions and details as at left.

The shank diameter may be equal to the thread diameter (normal shank) or approximately equal to the pitch diameter (reduced shank), at the manufacturer's discretion.

Cross recess type H      Cross recess type Z



<sup>1)</sup> If countersunk head screws with lengths given below the dashed line are to be supplied with their shank threaded up to the head, letter A shall be included in the designation, in accordance with DIN 962.

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Table 1.

Thread size (d <sup>1)</sup> )			M1,6	M2	M2,5	M3	(M3,5)	M4	M5	M6	M8	M10		
p <sup>2)</sup>			0,35	0,4	0,45	0,5	0,6	0,7	0,8	1	1,25	1,5		
a			max.											
b			min.											
d <sub>x</sub>			max. = nominal size											
k			max.											
r			max.											
x			max.											
Cross recess No.			0	1	2				3		4			
type H Penetration depth			min.											
type Z Penetration depth			min.											
			max.											
Nominal size			l <sup>1), 3)</sup>		Approximate mass (7,85 kg/dm <sup>3</sup> ), per 1000 units, in kg									
			min.	max.										
3	2,8	3,2	0,058	0,101	0,175									
4	3,75	4,25	0,069	0,119	0,206	0,291	0,434							
5	4,75	5,25	0,081	0,137	0,236	0,335	0,494	0,676						
6	5,75	6,25	0,093	0,152	0,266	0,379	0,554	0,754	1,21					
8	7,7	8,3	0,116	0,193	0,326	0,467	0,673	0,900	1,45	2,19				
10	9,7	10,3	0,139	0,231	0,386	0,555	0,792	1,06	1,70	2,54	5,03			
12	11,65	12,35	0,162	0,268	0,446	0,643	0,911	1,22	1,95	2,89	5,67	9,59		
(14)	13,65	14,35	0,185	0,306	0,507	0,731	1,03	1,37	2,19	3,25	6,30	10,6		
16	15,65	16,35	0,208	0,343	0,567	0,820	1,15	1,53	2,44	3,61	6,94	11,6		
(18)	17,65	18,35		0,381	0,627	0,908	1,27	1,68	2,69	3,95	7,57	12,6		
20	19,6	20,4		0,417	0,687	0,996	1,39	1,84	2,94	4,31	8,21	13,6		
(22)	21,6	22,4			0,747	1,08	1,51	1,99	3,18	4,66	8,84	14,6		
25	24,6	25,4			0,838	1,22	1,69	2,22	3,55	5,19	9,79	16,1		
(28)	27,6	28,4				1,35	1,87	2,46	3,93	5,72	10,7	17,6		
30	29,6	30,4				1,44	1,99	2,61	4,16	6,08	11,7	18,6		
35	34,5	35,5					2,29	2,99	4,76	6,96	13,0	21,1		
40	39,5	40,5						3,36	5,39	7,84	14,6	23,6		
45	44,5	45,5							6,02	8,73	16,2	26,1		
50	49,5	50,5							6,65	9,61	17,8	28,6		
55	54	56									19,4	31,1		
60	59	61										33,7		

1) Use of sizes given in brackets should be avoided where possible.  
 2) P = pitch of coarse thread.  
 3) Screws with lengths above the dashed line are threaded up to the head (b = l - (a + k)).  
 Lengths over 60 mm shall be graded in 10 mm steps.  
 For commercial lengths (given between stepped lines), values of mass have been specified.