

# Cross recessed raised countersunk head tapping screws

## DIN 7982

Senk-Blechschrauben mit Kreuzschlitz

Supersedes December 1972 edition.

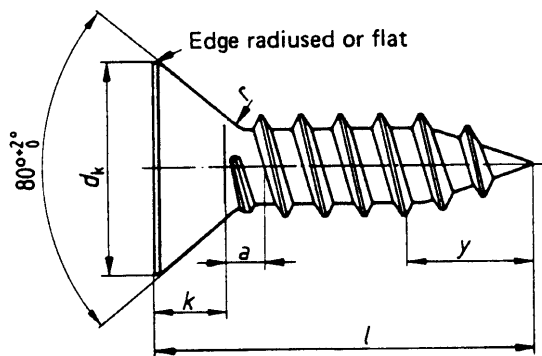
*In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.*

See Explanatory notes for connection with the international standards published by the International Organization for Standardization (ISO).

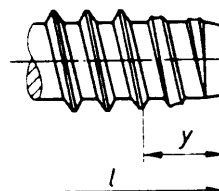
Dimensions in mm

### 1 Dimensions

**Type C, with cone end**  
(previously type B)

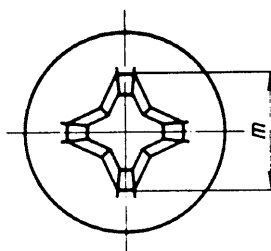


**Type F, with flat end**  
(previously type BZ)

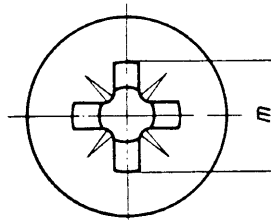


Other dimensions as in left-hand illustration.

**Cross recess type H<sup>1)</sup>**



**Cross recess type Z<sup>1)</sup>**



<sup>1)</sup> Should the type symbol H or Z for the cross recess be absent in the designation, e.g. on existing documents based on previous editions of this standard, then cross recess type H shall be applicable. In future, the symbol identifying the cross recess type shall always be specified for new designs and in purchase order documents (see clause 3).

Continued on pages 2 to 5

Thread size		ST 2,2	ST 2,9	ST 3,5	(ST 3,9)	ST 4,2	ST 4,8	ST 5,5	ST 6,3				
$P$ <sup>1)</sup>		0,8	1,1	1,3	1,4	1,4	1,6	1,8	1,8				
$a$	max	0,8	1,1	1,3	1,4	1,4	1,6	1,8	1,8				
$d_k$	max. = nominal dimension $d_k$	4,3	5,5	6,8	7,5	8,1	9,5	10,8	12,4				
	min	4	5,2	6,44	7,14	7,74	9,14	10,37	11,97				
$k$	≈	1,3	1,7	2,1	2,3	2,5	3	3,4	3,8				
$r$	max.	0,8	1,1	1,4	1,5	1,6	1,9	2,1	2,4				
No.		1		2				3					
Cross recess	type H	$m$	≈	2,5	3	4,2	4,6	4,7	5,1	6,8	7,1		
		penetration depth	min	1,02	1,4	1,62	2,03	2,11	2,59	2,95	3,33		
			max.	1,32	1,7	2,12	2,53	2,62	3,1	3,53	3,91		
	type Z	$m$	≈	2,4	2,8	4	4,2	4,4	5	6,3	7		
		penetration depth	min.	1,1	1,48	1,6	1,85	2,05	2,64	2,72	3,38		
			max.	1,35	1,73	2,06	2,31	2,51	3,1	3,18	3,84		
$y$ max.	Type C	2	2,6	3,2	3,5	3,7	4,3	5	6				
	Type F	1,6	2,1	2,5	2,7	2,8	3,2	3,6	3,6				
Nominal dimension	Type				Mass (7,85 kg/dm <sup>3</sup> ), in kg per 1000 units ≈								
	C		F										
	min.	max.	min.	max.									
4,5	3,7	5,3	3,7	4,5	0,1								
6,5	5,7	7,3	5,7	6,5	0,14	0,28							
9,5	8,7	10,3	8,7	9,5	0,2	0,35	0,54	0,66	0,77	1,1			
13	12,2	13,8	12,2	13	0,27	0,48	0,72	0,88	1,02	1,45	2,11	2,53	
16	15,2	16,8	15,2	16	0,33	0,58	0,87	1,07	1,23	1,75	2,49	3,07	
19	18,2	19,8	18,2	19		0,69	1,02	1,26	1,44	2,05	2,87	3,61	
22	21,2	22,8	20,2	22			1,17	1,45	1,65	2,35	3,26	4,15	
25	24,2	25,8	23,2	25			1,32	1,64	1,86	2,65	3,65	4,69	
32	30,7	33,3	30,8	32					2,35	3,35	4,56	5,95	
38	36,7	39,3	36,7	38							5,43	7,03	
45	43,7	46,3	43,5	45									
50	48,7	51,3	48,5	50									
Bracketed sizes should be avoided as far as possible. As a general rule, the tapping screws are manufactured in the sizes for which the mass has been given (for guidance only). <sup>1)</sup> $P$ = pitch of thread.													