

Cross recessed countersunk flat head screws

DIN
965

Senkschrauben mit Kreuzschlitz

Supersedes December 1971 edition.

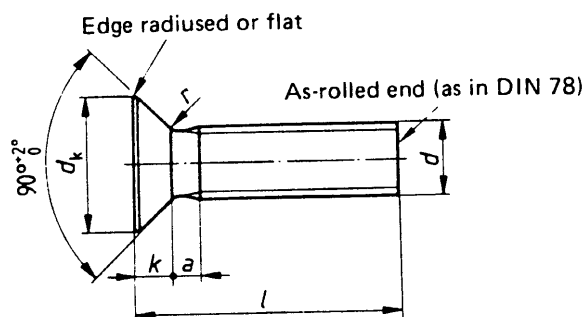
In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

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

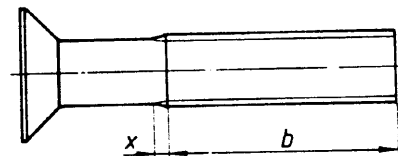
Dimensions in mm

1 Dimensions

Countersunk flat head screw threaded
up to the head
(tabled overleaf above the stepped line)



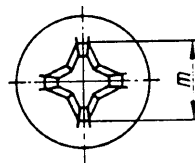
Countersunk flat head screw with
unthreaded portion of shank ¹⁾
(tabled overleaf below the stepped line)



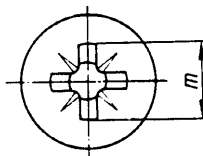
Other dimensions and details as in left-hand illustration.

Shank diameter = thread diameter (solid shank) or $\approx$ pitch diameter (slender shank), at the manufacturer's discretion.

Cross recess type H



Cross recess type Z



¹⁾ If countersunk flat head screws with lengths tabled below the stepped line are to be supplied threaded up to the head, i.e. deviating from the standard design, the letter A shall be incorporated in the designation, in accordance with DIN 962, or the deviating thread length shall be included in the designation, again in accordance with DIN 962 (with a tolerance on thread length of, as a rule, $\pm \frac{2}{3} P$). See DIN 962 for an example of designation.

Continued on pages 2 to 5

Thread size d			M 1,6	M 2	M 2,5	M 3	(M 3,5)	M 4	M 5	M 6	M 8	M 10	
$P^1)$			0,35	0,4	0,45	0,5	0,6	0,7	0,8	1	1,25	1,5	
a	max.		0,7	0,8	0,9	1	1,2	1,4	1,6	2	2,5	3	
b	$+ \frac{2}{3}P$		15	16	18	19	20	22	25	28	34	40	
d_k	max. = nominal dimension		3	3,8	4,7	5,6	6,5	7,5	9,2	11	14,5	18	
	min.		2,75	3,5	4,4	5,3	6,14	7,14	8,84	10,57	14,07	17,57	
k	max.		0,96	1,2	1,5	1,65	1,93	2,2	2,5	3	4	5	
r	max.		0,4	0,5	0,7	0,8	0,95	1	1,3	1,6	2	2,5	
x	max.		0,9	1	1,1	1,25	1,5	1,75	2	2,5	3,2	3,8	
Cross recess	Cross recess No.		0	1			2			3	4		
	type H	$m \approx$	1,7	2,35	2,7	2,9	3,9	4,4	4,6	6,6	8,7	9,6	
		Penetration depth	min.	0,66	0,95	1,25	1,5	1,4	1,9	2,1	2,8	3,9	4,8
			max.	0,91	1,25	1,55	1,8	1,9	2,4	2,6	3,3	4,4	5,3
	type Z	$m \approx$	1,8	2,2	2,5	2,8	3,7	4	4,4	6,1	8,5	9,4	
		Penetration depth	min.	0,89	0,92	1,22	1,48	1,34	1,6	2,05	2,46	3,86	4,77
			max.	1,14	1,17	1,47	1,73	1,8	2,06	2,51	2,92	4,32	5,23
	Nominal length	l min max.		Mass (7,85 kg/dm ³), in kg per 1000 units $\approx$									
3	2,8	3,2			0,18								
4	3,75	4,25			0,21	0,29	0,43						
5	4,75	5,25			0,24	0,34	0,49	0,68					
6	5,75	6,25			0,27	0,38	0,55	0,75	1,21				
8	7,7	8,3			0,33	0,47	0,67	0,91	1,45	2,19			
10	9,7	10,3			0,39	0,56	0,79	1,06	1,7	2,54	5,03		
12	11,65	12,35			0,45	0,64	0,91	1,22	1,95	2,89	5,67	9,59	
(14)	13,65	14,35			0,51	0,73	1,03	1,37	2,19	3,25	6,3	10,6	
16	15,65	16,35			0,57	0,82	1,15	1,53	2,44	3,6	6,94	11,6	
(18)	17,65	18,35			0,63	0,91	1,27	1,68	2,69	3,95	7,57	12,6	
20	19,6	20,4			0,69	1	1,39	1,84	2,94	4,31	8,21	13,6	
(22)	21,6	22,4			0,75	1,1	1,51	1,99	3,18	4,66	8,84	14,6	
25	24,6	25,4			0,84	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	3	4,65	6,96	13	21,1	
40	39,5	40,5						3,38	5,4	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	

As a general rule, screws are manufactured in the sizes for which the mass has been given (for guidance only).
 Bracketed sizes shall be avoided as far as possible.
 Lengths over 60 mm shall be graded in 10 mm steps.

¹⁾ P = pitch of thread.