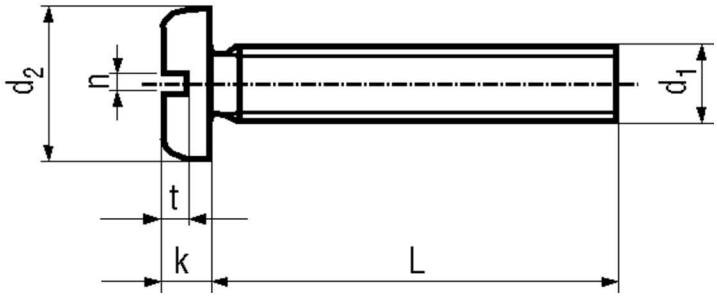
PAN HEAD SLOTTED MACHINE SCREWS ▪ DIN 85 / ISO 1580 / JIS B 1101 / ANSI B.18.6.7 M



Head Diameter (d2)	Size d1	M1.6		M2		M2.5		M3		(M3.5)		M4		M5		M6		M8		M10	
Standard		min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.
DIN 85 (1990)								5.70	6.00	6.64	7.00	7.64	8.00	9.64	10.00	11.57	12.00	15.57	16.00	19.48	20.00
ISO 1580 (1994)		2.90	3.20	3.70	4.00	4.70	5.00	5.30	5.60	6.64	7.00	7.64	8.00	9.14	9.50	11.57	12.00	15.57	16.00	19.48	20.00
JIS B 1101 (1977)		2.60	3.00	3.10	3.50	4.10	4.50	5.00	5.50	5.50	6.00	6.50	7.00	8.40	9.00	9.80	10.50	13.20	14.00		
ANSI B 18.16.7 M (1985)				3.70	4.00	4.70	5.00	5.30	5.60	6.60	7.00	7.60	8.00	9.10	9.50	11.50	12.00	15.50	16.00	19.40	20.00

Head Height (k)	Size d1	M1.6		M2		M2.5		M3		(M3.5)		M4		M5		M6		M8		M10	
Standard		min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.
DIN 85 (1990)								1.66	1.80	1.96	2.10	2.26	2.40	2.86	3.00	3.30	3.60	4.50	4.80	5.70	6.00
ISO 1580 (1994)		0.86	1.00	1.16	1.30	1.36	1.50	1.66	1.80	1.96	2.10	2.26	2.40	2.86	3.00	3.30	3.60	4.50	4.80	5.70	6.00
JIS B 1101 (1977)		0.90	1.10	1.20	1.40	1.60	1.80	1.85	2.15	2.15	2.45	2.45	2.75	3.15	3.45	3.70	4.10	5.00	5.40		
ANSI B 18.16.7 M (1985)				1.10	1.30	1.30	1.50	1.60	1.80	1.90	2.10	2.20	2.40	2.70	3.00	3.30	3.60	4.50	4.80	5.70	6.00

Slot Width (n)	Size d1	M1.6		M2		M2.5		M3		(M3.5)		M4		M5		M6		M8		M10	
Standard		min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.
DIN 85 (1990)								0.86	1.00	1.06	1.20	1.26	1.51	1.26	1.51	1.66	1.91	2.06	2.31	2.56	2.81
ISO 1580 (1994)		0.46	0.60	0.56	0.70	0.66	0.80	0.86	1.00	1.06	1.20	1.26	1.51	1.26	1.51	1.66	1.91	2.06	2.31	2.56	2.81
JIS B 1101 (1977)		0.40	0.55	0.60	0.75	0.80	0.95	0.80	0.95	1.00	1.15	1.00	1.15	1.20	1.40	1.20	1.40	1.60	1.80		
ANSI B 18.16.7 M (1985)				0.50	0.70	0.60	0.80	0.80	1.00	1.00	1.20	1.20	1.50	1.20	1.50	1.60	1.90	2.00	2.30	2.50	2.80

Slot Depth (t)	Size d1	M1.6		M2		M2.5		M3		(M3.5)		M4		M5		M6		M8		M10	
Standard		min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.
DIN 85 (1990)								0.70		0.80		1.00		1.20		1.40		1.90		2.40	
ISO 1580 (1994)		0.35		0.50		0.60		0.70		0.80		1.00		1.20		1.40		1.90		2.40	
JIS B 1101 (1977)		0.45	0.65	0.60	0.80	0.75	1.05	0.95	1.25	1.05	1.45	1.20	1.60	1.50	2.10	1.80	2.40	2.30	3.30		
ANSI B 18.16.7 M (1985)				0.50		0.60		0.70		0.80		1.00		1.20		1.40		1.90		2.40	

Length Tolerance	DIN 85/ISO 1580		JIS B 111						ANSI B 18.16.7 M	
			Over M2.6 To M4.5		Over M4.5 To M8		M10 & Above			
Nominal Length	min..	max.	min..	max.	min..	max.	min..	max.	min..	max.
2							1.7	2.0		
(2.5)									2.3	2.7
3	2.80	3.20					2.7	3.0	2.8	3.2
4	3.76	4.24					3.7	4.0	3.7	4.3
5	4.76	5.24	4.4	5.0	4.2	5.0	4.6	5.0	4.7	5.3
6	5.76	6.24	5.4	6.0	5.2	6.0	5.6	6.0	5.7	6.3
8	7.71	8.29	7.4	8.0	7.2	8.0	7.6	8.0	7.7	8.3
10	9.71	10.29	9.4	10.0	9.2	10.0	9.6	10.0	9.7	10.3
12	11.65	12.35	11.4	12.0	11.0	12.0	11.4	12.0	12.6	13.4
(14)	13.65	14.35								
16	15.65	16.35	15.4	16.0	15.0	16.0	15.4	16.0	15.6	16.4
(18)	17.65	18.35								
20	19.58	20.42	19.4	20.0	19.0	20.0	19.4	20.0	19.5	20.5
(22)	21.58	22.42								
25	24.58	25.42	24.2	25.0	24.0	25.0	24.2	25.0	24.5	25.5
(28)	27.58	28.42								
30	29.58	30.42	29.2	30.0	29.0	30.0	29.2	30.0	29.5	30.5
35	34.50	35.50	34.2	35.0	34.0	35.0	34.2	35.0	34.5	35.5
40	39.50	40.50	39.2	40.0	39.0	40.0	39.2	40.0	39.5	40.5
45	44.50	45.50	44.0	45.0	44.0	45.0			44.5	45.5
50	49.50	50.50	49.0	50.0	49.0	50.0			49.5	50.5
(55)	54.05	55.95	54.0	55.0	54.0	55.0			54.0	56.0
60	59.05	60.95			59.0	60.0			59.0	61.0
(65)	64.05	65.95							64.0	66.0
70	69.05	70.95			69.0	70.0			69.0	71.0
(75)	74.05	75.95								
80	79.05	80.95			79.0	80.0			79.0	81.0
90	88.90	91.10			89.0	90.0			89.0	91.0

Diameters & Lengths With ( ) are not recommended for new design.

Thread Pitch		Thread Tolerance Plain 6g
Dia.	Pitch	Thread Tolerance Plated 6h
M1.6	0.35	Thread Tolerance Stainless 6g
M2	0.4	
M2.5	0.45	
(M2.6)	0.45	
M3	0.5	
(M3.5)	0.6	
M4	0.7	
M5	0.8	
M6	1	
(M8)	1.25	
(M10)	1.5	

Material	4.8	A2 - A4
Tensile Strength	60900	72500-101500
Yield Strength	49300	30450-65250
Hardness	HRB 71-99.5	NA

	Steel	Stainless Steel
Property Class	4.8	A2 - A4
Finish	Plain /Plated	Plain

For Machine Screws, The Letter A After The DIN Number Indicates Full Thread. Unless Requested, All Machine Screws Are Supplied As Full Thread, Therefore We Omit The A.

Refer To ISO 1580 For M2, M2.5, and M10, As these Three Diameters Are Not Available In DIN 85 A

M2.6 Is Not Available In DIN 85 A Or ISO 1580. Use M2.5 ISO 1580 For Dimensional Information.

Neither DIN, ISO, Or ANSI Specify A maximum Slot Depth.

FOR MORE DETAILED INFORMATION, PLEASE REFER TO COMPLETE DIN OR ISO STANDARD, WHICH ARE THE GOVERNING STANDARDS

DIN 85 (1990) / ISO 1580 (1994) / JIS B1101 (1977) / ANSI B 18.6.7 M (1985) - LFG 10/01/2016

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