

# Datasheet

**RS Stock No: 9087582**

## **Clear Passivated, Bright Zinc Plated Steel Pan Head Machine Screws: Metric Thread**



Pan Head Machine Screws are similar to Oval Head Machine Screws in that they have rounded sides, the difference being that Pan Head Machine Screws have a flat top rather than rounded. The cross recess drive, also known as Posidriv, is becoming a popular driving method with this type of fastener due to the ease of assembly with reduced driver slippage (Cam Out) which reduces the effect of surface damage. Machine screws can be used in pre-tapped holes or used with conforming nuts and washers in through-holes.

- Clear Passivated, Bright Zinc Plated Steel
- Threaded in accordance with DIN 84 standard
- Suitable for light fastening applications in facilities maintenance and electronic & domestic applications
- Typical applications include; PCB prototyping, circuit board mounting and general repair and maintenance
- Requires a slotted screwdriver

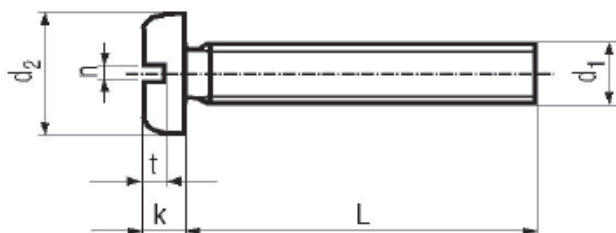


**ENGLISH**

Please view our range listing below for more Clear Passivated, Zinc Plated Steel, Pan Head Machine Screws:

Head Shape	Drive Type	Material	Thread Size	Length	RS Part No.
Pan Head	Slot	Zinc Plated Steel	M2.5	10 mm	9087582
Pan Head	Slot	Zinc Plated Steel	M3	8 mm	9087586
Pan Head	Slot	Zinc Plated Steel	M3.5	16 mm	9087595
Pan Head	Slot	Zinc Plated Steel	M4	8 mm	9087598
Pan Head	Slot	Zinc Plated Steel	M5	6 mm	9087592
Pan Head	Slot	Zinc Plated Steel	M5	8 mm	9087602
Pan Head	Slot	Zinc Plated Steel	M5	30 mm	9087605
Pan Head	Slot	Zinc Plated Steel	M5	35 mm	9087609
Pan Head	Slot	Zinc Plated Steel	M6	30 mm	9087618
Pan Head	Slot	Zinc Plated Steel	M6	35 mm	9087611
Pan Head	Slot	Zinc Plated Steel	M8	16 mm	9087615
Pan Head	Slot	Zinc Plated Steel	M8	20 mm	9087624
Pan Head	Slot	Zinc Plated Steel	M8	25 mm	9087627
Pan Head	Slot	Zinc Plated Steel	M8	30 mm	9087621
Pan Head	Slot	Zinc Plated Steel	M8	40 mm	9087630
Pan Head	Slot	Zinc Plated Steel	M8	50 mm	9087633

## PAN HEAD SLOTTED MACHINE SCREWS DIN 85 / ISO 1580 / JIS B 1101 / ANSI B.18.16.7M



Head Diameter (d2)	Size d1	M1.6		M2		M2.5		M3		(M3.6)		M4		M6		M8		M10	
Standard		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
DIN 85 (1990)								5.7	6	6.64	7	7.64	8	9.64	10	11.57	12	15.57	16
ISO 1580 (1984)		2.9	3.2	3.7	4	4.7	5	5.3	5.6	6.64	7	7.64	8	9.14	9.5	11.57	12	15.57	16
JIS B 1101 (1977)		2.6	3	3.1	3.5	4.1	4.5	5	5.5	5.5	6	6.5	7	8.4	9	9.8	10.5	13.2	14
ANSI B 18.16.7 M (1986)				3.7	4	4.7	5	5.3	5.6	6.6	7	7.6	8	9.1	9.5	11.5	12	15.5	16

Head Height (k)	Size d1	M1.6		M2		M2.5		M3		(M3.6)		M4		M6		M8		M10	
Standard		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
DIN 85 (1990)								1.66	1.8	1.96	2.1	2.26	2.4	2.86	3	3.3	3.6	4.5	4.8
ISO 1580 (1984)		0.86	1.0	1.16	1.3	1.36	1.5	1.66	1.8	1.96	2.1	2.26	2.4	2.86	3	3.3	3.6	4.5	4.8
JIS B 1101 (1977)		0.9	1.1	1.2	1.4	1.6	1.8	1.85	2.15	2.15	2.45	2.45	2.75	3.15	3.45	3.7	4.1	5	5.4
ANSI B 18.16.7 M (1986)				1.1	1.3	1.3	1.5	1.6	1.8	1.9	2.1	2.2	2.4	2.7	3	3.3	3.6	4.5	4.8

Slot Width (n)	Size d1	M1.6		M2		M2.5		M3		(M3.6)		M4		M6		M8		M10	
Standard		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
DIN 85 (1990)								0.86	1	1.06	1.2	1.26	1.51	1.26	1.51	1.66	1.91	2.06	2.31
ISO 1580 (1984)		0.46	0.6	0.56	0.7	0.66	0.8	0.86	1	1.06	1.2	1.26	1.51	1.26	1.51	1.66	1.91	2.06	2.31
JIS B 1101 (1977)		0.4	0.55	0.6	0.75	0.8	0.95	0.8	0.95	1	1.15	1	1.15	1.2	1.4	1.2	1.4	1.6	1.8
ANSI B 18.16.7 M (1986)				0.5	0.7	0.6	0.8	0.8	1	1	1.2	1.2	1.5	1.2	1.5	1.6	1.9	2	2.3

Slot Depth (t)	Size d1	M1.6		M2		M2.5		M3		(M3.6)		M4		M6		M8		M10	
Standard		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
DIN 85 (1990)								0.7	0.8	0.8	1	1	1.2	1.2	1.4	1.4	1.9	1.9	2.4
ISO 1580 (1984)		0.35	0.5	0.5	0.60	0.60	0.7	0.7	0.8	0.8	1	1	1.2	1.2	1.4	1.4	1.9	1.9	2.4
JIS B 1101 (1977)		0.45	0.65	0.6	0.8	0.75	1.05	0.95	1.25	1.05	1.45	1.2	1.6	1.5	2.1	1.8	2.4	2.3	3.3
ANSI B 18.16.7 M (1986)				0.5	0.60	0.60	0.7	0.7	0.8	0.8	1	1	1.2	1.2	1.4	1.4	1.9	1.9	2.4

Length Tolerance	DIN 85/ISO 1580	
Nominal Length	min	max
2		
(2.5)		
3	2.8	3.2
4	3.76	4.24
5	4.76	5.24
6	5.76	6.24
8	7.71	8.29
10	9.71	10.29
12	11.65	12.35
(14)	13.65	14.35
16	15.65	16.35
(18)	17.65	18.35
20	19.58	20.42
(22)	21.58	22.42
25	24.58	25.42
(28)	27.58	28.42
30	29.58	30.42
35	34.5	35.5
40	39.5	40.5
45	44.5	45.5
50	49.5	50.5
(55)	54.05	55.95
60	59.05	60.95
(65)	64.05	65.95
70	69.05	70.95
(75)	74.05	75.95
80	79.05	80.95
90	88.9	91.1

JIS B 1101					
Over M2.5 To M4.5		Over M4.5 To M8		M10 & Above	
min	max	min	max	min	max
				1.7	2
				2.7	3
				3.7	4
4.4	5	4.2	5	4.5	5
5.4	6	5.2	6	5.6	6
7.4	8	7.2	8	7.6	8
9.4	10	9.2	10	9.6	10
11.4	12	11	12	11.4	12
15.4	16	15	16	15.4	16
19.4	20	19	20	19.4	20
24.2	25	24	25	24.2	25
29.2	30	29	30	29.2	30
34.2	35	34	35	34.2	35
39.2	40	39	40	39.2	40
44	45	44	45		
49	50	49	50		
54	55	54	55		
		59	60		
		69	70		
		79	80		
		89	90		

ANSI B 18.16.7 M	
min	max
2.3	2.7
2.8	3.2
3.7	4.3
4.7	5.3
5.7	6.3
7.7	8.3
9.7	10.3
12.6	13.4
15.6	16.4
19.5	20.5
24.5	25.5
29.5	30.5
34.5	35.5
39.5	40.5
44.5	45.5
49.5	50.5
54	56
59	61
64	66
69	71
79	81
89	91

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

Thread Pitch	Thread Tolerance Plain 6h	
Dia. Pitch	Thread Tolerance Plated 6h	
M1.6 0.35	Thread Tolerance Stainless 6g	
M2 0.4		
M2.5 0.45	Material	4-8 A2-A4
(M2.6) 0.45		
M3 0.5	Tensile Strength	60900 72500-101500
(M3.5) 0.6		
M4 0.7	Yield Strength	49300 30450-65250
M5 0.8		
M6 1	Hardness	HRB 71-99.5 NA
(M8) 1.25		
(M10) 1.5		
	Property Class	Steel 4-8 Stainless Steel 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.