



ENGLISH

Datasheet

RS Stock No: 9087595

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





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

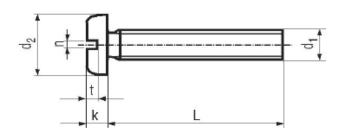
Head Shape	Drive Type	Material	Thread Size	Length	RS Part No.
Pan Head	Slot	Zinc Plated Steel	M2.5	10 mm	9087582
Pan Head	Slot	Zinc Plated Steel	M3	8 mm	9087586
Pan Head	Slot	Zinc Plated Steel	M3.5	16 mm	9087595
Pan Head	Slot	Zinc Plated Steel	M4	8 mm	9087598
Pan Head	Slot	Zinc Plated Steel	M5	6 mm	9087592
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





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



Head Diameter (d2)	Size d1	M	1.8	h	12	M	2.6	h	A3	(M	3.5)	N.	14	N	A6		46		M8	M	10
Standard		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
DIN 86 (1890)								5.7	6	6.64	7	7.64	00	9.64	10	11.57	12	15.57	16	19.48	20
ISO 1680 (1994)		2.9	3.2	3.7	4	4.7	5	5.3	5.6	6.64	7	7.64	80	9.14	9.5	11.57	12	15.57	16	19.48	20
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	19.4	20

Head Height (k)	Size d1	M	1.8	N	12	M	2.6	N	13	(M	3.5)	N	14	N	16		46		M8	M	10
Standard		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
DIN 86 (1890)								1.66	1.8	1.95	2.1	2.26	2.4	2.86	3	3.3	3.6	4.5	4.8	5.7	6
ISO 1680 (1994)		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	5.7	6
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	5.7	6

Slot Width (n)	Size d1	M	1.8	N	12	M	2.6	N	13	(M	3.6)	, h	4	N	16	N	16		M8	M	10
Standard		min	max																		
DIN 86 (1990)								0.86	- 1	1.06	1.2	1.26	1.51	1.26	1.51	1.66	1.91	2.06	2.31	2.56	2.81
ISO 1680 (1994)		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	2.56	2.81
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	12	1.2	1.5	1.2	1.5	1.6	1.9	2	2.3	2.5	2.8

Slot Depth (t)	Size d1	M	1.6	M	12	M	2.6	N	13	(M	3.6)	N	14	M	16		46		M8	M	10
Standard		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
DIN 86 (1990)								0.7		0.8		- 1		1.2		1.4		1.9		2.4	
ISO 1680 (1994)		0.35		0.5		0.60		0.7		0.8		- 1		1.2		1.4		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		0.7		0.8		- 1		1.2		1.4		1.9		2.4	

Length Tolerance	DIN 85/180	1580
Name of Land		
Nominal Length	min	max
(2.5)	-	-
(2.5)	2.8	3.2
4	3.76	4.24
5	4.76	5.24
5	4.76 5.76	6.24
8	7.71	8.29
_	7.71 9.71	
10		10.29
	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

Over M2.6 To M4.5 Over M4.5 To M8 M10 & Above min max min max min max 1.7 2 1.7 2 1.7 2 2.7 3 3.7 4 4 5 4.6 5 5 4.6 5 5 4.6 5 5 6 5.6 6 7.6 8 7.6 8 7.6 8 7.6 8 7.6 8 7.6 8 7.6 8 10 9.6 10 11.4 12 11.4 12 11.4 12 11.4 12 11.4 12 11.4 12 11.4 12 11.4 12 11.4 12 11.4 12 11.4 12 11.4 12 11.4 12 11.4 12 11.4 12 11.4 12 11.4 12 11.4 12 20 19.4 20 22.2 25 24.2 25 24.2 25 </th <th></th> <th></th> <th>JISE</th> <th>3 1101</th> <th></th> <th></th>			JISE	3 1101						
1.7 2 2.7 3 3.7 4 4.4 5 4.2 5 4.6 5 5.4 6 5.2 6 5.6 6 7.4 8 7.2 8 7.5 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 19.4 20 19 20 20 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 79 80					M10 & Above					
2.7 3 3.7 4 4.4 5 4.2 5 4.6 5 5.5 6 5.5 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	min	max	min	max	min	max				
3.7					1.7	2				
3.7										
4.4 5 4.2 5 4.6 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 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 79 80						3				
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 40 49 50 54 55 54 55 59 50 59 69 70 79 80 90 90 90										
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 79 80			-							
3.4 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 19.4 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 44 45 44 45 45 55 55 55 59 50 59 70 79 80 70 79 80 70 79 80 70 79 80 70 79 80 70 79 80 70 79 80 70 79 80 70 79 80 70 79 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
11.4 12 11 12 11.4 12 15.4 16 15.4 16 15 15.4 16 19.4 20 19 20 19.4 20 24.2 25 24.2 25 24.2 25 24.2 25 29.2 30 29.2 30 34.2 35 34.3 35 34.2 35		8		8	7.6	8				
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 79 80	9.4	10	9.2	10	9.6	10				
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	11.4	12	11	12	11.4	12				
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										
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 50	15.4	16	15	16	15.4	16				
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 50										
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	19.4	20	19	20	19.4	20				
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										
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	24.2	25	24	25	24.2	25				
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										
39.2 40 39 40 39.2 40 44 45 44 45 49 50 49 50 54 55 54 55 59 60 69 70	29.2		29		29.2					
44 45 44 45 49 50 49 50 54 55 54 55 59 60 69 70	34.2				34.2					
49 50 49 50 54 55 54 55 59 60 69 70 79 80	39.2	-	39		39.2	40				
54 55 54 55 59 50 69 70 79 80										
59 60 69 70 79 80										
69 70 79 80	54	55	-							
79 80			59	60						
79 80										
			69	70						
oo on										
02 30			89	90						

	18.16.7 //	
min	max	ı
2.3	2.7	
2.8	3.2	
3.7	4.3	
4.7	5.3	ı
5.7	6.3	ı
7.7	8.3	ı
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	ı
44.5	45.5	ı
49.5	50.5	
54	56	ı
59	61	ı
64	66	ı
69	71	ı
\vdash		ı
79	81	ı
89	91	

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

Threa	d Pitch		Thread	Tolerance	Plain 6g
Dla.	Pitch		Thread	Tolerance	Plated 6h
M1.6	0.35		Thread T	blerance 8	Stainless 6g
M2	0.4				
M2.5	0.45	Mat	erial	4.8	A2 - A4
(M2.6)	0.45	Tenelle (Strength	60900	72500-101500
M3	0.5	iensie	ouengui	60500	72500-101500
(M3.5)	0.6	20-14-0		49300	30450-65250
M4	0.7	Yield 3	arengan	49300	30450765250
M5	0.8	Hard		HRB	NA.
M6	1	Haro	ness	71-99.5	NA.
(M8)	1.25				
(M10)	1.5		8	teel	Stainless Steel
Pro	perty CI	355	- 4	1.8	A2 - A4
	Finish		Plain /Pl	ated	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 Diameter 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.