ENGLISH

Datasheet

RS Stock No: 9087706

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
- Cross recess drive type
- 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 Philips 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	Cross	Zinc Plated Steel	M2	8 mm	9087637
Pan Head	Cross	Zinc Plated Steel	M2	10 mm	9087646
Pan Head	Cross	Zinc Plated Steel	M2.5	5 mm	9087649
Pan Head	Cross	Zinc Plated Steel	M2.5	8 mm	9087643
Pan Head	Cross	Zinc Plated Steel	M2.5	10 mm	9087652
Pan Head	Cross	Zinc Plated Steel	M2.5	16 mm	9087655
Pan Head	Cross	Zinc Plated Steel	M3	4 mm	9087659
Pan Head	Cross	Zinc Plated Steel	M3	5 mm	9087668
Pan Head	Cross	Zinc Plated Steel	M3	8 mm	9087661
Pan Head	Cross	Zinc Plated Steel	M3.5	8 mm	9087665
Pan Head	Cross	Zinc Plated Steel	M3.5	10 mm	9087674
Pan Head	Cross	Zinc Plated Steel	M3.5	16 mm	9087677
Pan Head	Cross	Zinc Plated Steel	M3.5	25 mm	9087671
Pan Head	Cross	Zinc Plated Steel	M3.5	30 mm	9087680
Pan Head	Cross	Zinc Plated Steel	M4	5 mm	9087683
Pan Head	Cross	Zinc Plated Steel	M4	8 mm	9087687
Pan Head	Cross	Zinc Plated Steel	M4	35 mm	9087696
Pan Head	Cross	Zinc Plated Steel	M4	50 mm	9087699
Pan Head	Cross	Zinc Plated Steel	M5	6 mm	9087693
Pan Head	Cross	Zinc Plated Steel	M5	8 mm	9087703
Pan Head	Cross	Zinc Plated Steel	M5	30 mm	9087706
Pan Head	Cross	Zinc Plated Steel	M5	35 mm	9087700
Pan Head	Cross	Zinc Plated Steel	M5	50 mm	9087719

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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	Cross	Zinc Plated Steel	M6	30 mm	9087712
Pan Head	Cross	Zinc Plated Steel	M6	50 mm	9087716
Pan Head	Cross	Zinc Plated Steel	M8	16 mm	9087725
Pan Head	Cross	Zinc Plated Steel	M8	20 mm	9087728
Pan Head	Cross	Zinc Plated Steel	M8	25 mm	9087722
Pan Head	Cross	Zinc Plated Steel	M8	30 mm	9087731
Pan Head	Cross	Zinc Plated Steel	M8	40 mm	9087734
Pan Head	Cross	Zinc Plated Steel	M8	50 mm	9087738

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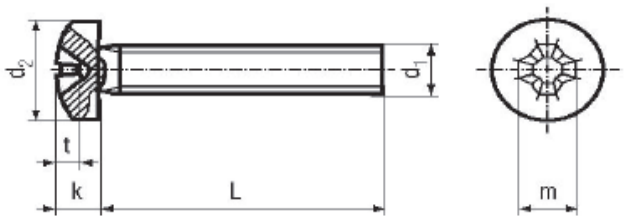
PAN HEAD PHILLIPS MACHINE SCREWS DIN 7985 / ISO 7045 / JIS B 1111 /ANSI B 18.16.7 M



Head Diameter (d2)	Size d1	M1.6		M2		M2.6		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 7985 (1990)		2.9	3.2	3.7	4	4.7	5	5.7	6	6.64	7	7.64	8	9.64	10	11.57	12	15.57	16	19.48	20
ISO 7045 (1994)		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	19.48	20
JIS B 1111 (1977)				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	M1.6		M2		M2.6		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 7985 (1990)		1.18	1.42	1.48	1.72	1.88	2.12	2.28	2.52	2.58	2.82	2.95	3.25	3.65	3.95	4.45	4.75	5.85	6.15	7.32	7.68
ISO 7045 (1994)		1.16	1.3	1.46	1.6	1.96	2.1	2.26	2.4	2.46	2.6	2.92	3.1	3.52	3.7	4.3	4.6	5.7	6	7.14	7.5
JIS B 1111 (1977)				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)				1.4	1.6	1.9	2.1	2.2	2.4	2.3	2.6	2.8	3.1	3.4	3.7	4.3	4.6	5.6	6	7.1	7.5

Cross Recess Size (m)	Size d1	M1.6	M2	M2.6	M3	(M3.5)	M4	M5	M6	M8	M10
Standard											
DIN 7985 (1990)		0	1			2			3	4	
ISO 7045 (1994)		0		1		2			3	4	
JIS B 1111 (1977)			1			2			3		
ANSI B 18.16.7 M (1986)			0	1		2			3	4	

Cross Recess Penetration (t)	Size d1	M1.6		M2		M2.6		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 7985 (1990)		0.72	1.02	1.1	1.4	1.3	1.6	1.7	2	1.74	2.24	2.04	2.54	2.77	3.27	3.03	3.53	4.18	4.68	5.38	5.88
ISO 7045 (1994)		0.70	0.95	0.9	1.2	1.15	1.55	1.4	1.8	1.4	1.9	1.9	2.4	2.4	2.9	3.1	3.6	4	4.6	5.2	5.8
JIS B 1111 (1977)				0.6	1.01	1	1.42	0.86	1.43	1.15	1.73	1.45	2.03	2.14	2.73	2.26	2.86	3.73	4.36		
ANSI B 18.16.7 M (1986)				0.95	1.2	1.15	1.55	1.4	1.8	1.4	1.9	1.9	2.4	2.4	2.9	3.1	3.6	4	4.6	5.2	5.8

Length Tolerance	DIN7985/ISO7045		JIS B 1111				ANSI B 18.16.7 M	
Nominal Length	min	max	min	max	min	max	min	max
2			1.7	2				
2.5							2.3	2.7
3	2.8	3.2	2.7	3			2.8	3.2
4	3.76	4.24	3.7	4			3.7	4.3
5	4.76	5.24	4.6	5	4.4	5	4.7	5.3
6	5.76	6.24	5.6	6	5.4	6	5.7	6.3
8	7.71	8.29	7.6	8	7.4	8	7.7	8.3
10	9.71	10.29	9.6	10	9.4	10	9.7	10.3
12	11.65	12.35	11.4	12	11.4	12	12.7	13.3
(14)	13.65	14.35						
16	15.65	16.35	15.4	16	15.4	16	15.7	16.3
(18)	17.65	18.35						
20	19.58	20.42	19.4	20	19.4	20	19.5	20.5
(22)	21.58	22.42						
25	24.58	25.42	24.2	25	24.2	25	24.5	25.5
(28)	27.58	28.42						
30	29.58	30.42	29.2	30	29.2	30	29.5	30.5
35	34.5	35.5	34.2	35	34.2	35	34.5	35.5
40	39.5	40.5	39.2	40	39.2	40	39.5	40.5
45	44.5	45.5			44	45	44.5	45.5
50	49.5	50.5			49	50	49.5	50.5
(55)	54.05	55.95			54	55	54	56
60	59.05	60.95					59	61
(65)	64.05	65.95					64	66
70	69.05	70.95					69	71
(75)	74.05	75.95						
80	79.05	80.95					79	81
90	88.9	91.1					89	91

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	Material	4.8	A2 - A4
(M2.6)	0.45	Tensile Strength	60900	72500-101500
M3	0.5			
(M3.5)	0.6	Yield Strength	49300	30450-65250
M4	0.7			
M5	0.8	Hardness	HRB 71-99.5	NA
M6	1			
(M8)	1.25			
(M10)	1.5		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.