

# Datasheet

**RS Stock No: 553661**

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



Pan Head machine screws, similarly to Oval Head machine screws have rounded sides, however the difference being that Pan Head machine screws have a flat top rather than a rounded one. The cross recess drive, also known as Posidriv, is becoming a popular method with this type of fastener due to 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
- Cross recess drive type
- Threaded in accordance with DIN 7985 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 Philips 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	Cross	Zinc Plated Steel	M2	6 mm	560530
Pan Head	Cross	Zinc Plated Steel	M2	12 mm	560546
Pan Head	Cross	Zinc Plated Steel	M2.5	6 mm	560552
Pan Head	Cross	Zinc Plated Steel	M2.5	12 mm	560568
Pan Head	Cross	Zinc Plated Steel	M2.5	20 mm	560574
Pan Head	Cross	Zinc Plated Steel	M3	6 mm	560580
Pan Head	Cross	Zinc Plated Steel	M3	10 mm	560596
Pan Head	Cross	Zinc Plated Steel	M3	12 mm	560603
Pan Head	Cross	Zinc Plated Steel	M3	16 mm	560619
Pan Head	Cross	Zinc Plated Steel	M3	20 mm	560625
Pan Head	Cross	Zinc Plated Steel	M3	25 mm	560631
Pan Head	Cross	Zinc Plated Steel	M3	30 mm	560647
Pan Head	Cross	Zinc Plated Steel	M3.5	12 mm	560653
Pan Head	Cross	Zinc Plated Steel	M3.5	20 mm	560669
Pan Head	Cross	Zinc Plated Steel	M4	6 mm	560675
Pan Head	Cross	Zinc Plated Steel	M4	10 mm	560681
Pan Head	Cross	Zinc Plated Steel	M4	12 mm	560697
Pan Head	Cross	Zinc Plated Steel	M4	16 mm	553554
Pan Head	Cross	Zinc Plated Steel	M4	20 mm	553560
Pan Head	Cross	Zinc Plated Steel	M4	25 mm	553576
Pan Head	Cross	Zinc Plated Steel	M4	30 mm	553582
Pan Head	Cross	Zinc Plated Steel	M4	40 mm	553598



**ENGLISH**

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Head Shape	Drive Type	Material	Thread Size	Length	RS Part No.
Pan Head	Cross	Zinc Plated Steel	M5	10 mm	553605
Pan Head	Cross	Zinc Plated Steel	M5	12 mm	553611
Pan Head	Cross	Zinc Plated Steel	M5	16 mm	553627
Pan Head	Cross	Zinc Plated Steel	M5	20 mm	553633
Pan Head	Cross	Zinc Plated Steel	M5	25 mm	553649
Pan Head	Cross	Zinc Plated Steel	M5	40 mm	553655
Pan Head	Cross	Zinc Plated Steel	M6	10 mm	553661
Pan Head	Cross	Zinc Plated Steel	M6	12 mm	553677
Pan Head	Cross	Zinc Plated Steel	M6	16 mm	553683
Pan Head	Cross	Zinc Plated Steel	M6	20 mm	553699
Pan Head	Cross	Zinc Plated Steel	M6	25 mm	553706
Pan Head	Cross	Zinc Plated Steel	M6	40 mm	553712

## 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		(M3.6)		M4		M6		M8		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	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		(M3.6)		M4		M6		M8		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	7.58
ISO 7045 (1994)		1.15	1.3	1.46	1.6	1.95	2.1	2.26	2.4	2.45	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		(M3.6)		M4		M6		M8		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	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		(M3.6)		M4		M6		M8		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	2.85	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	
Nominal Length	min	max	
2			
2.5			
3	3.8	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	89.5	91.1	

JIS B 1111					
min	max	min	max	min	max
1.7	2				
2.7	3				
3.7	4				
4.6	5	4.4	5	4.2	5
5.6	6	5.4	6	5.2	6
7.6	8	7.4	8	7.2	8
9.6	10	9.4	10	9.2	10
11.4	12	11.4	12	11	12
15.4	16	15.4	16	15	16
19.4	20	19.4	20	19	20
24.2	25	24.2	25	24	25
29.2	30	29.2	30	29	30
34.2	35	34.2	35	34	35
39.2	40	39.2	40	39	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
12.7	13.3
15.7	16.3
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 5g		
Dia. Pitch	Thread Tolerance Plated 6h		
M1.6 0.35	Thread Tolerance Stainless 5g		
M2 0.4			
M2.5 0.45	Material	4.8	A2 - A4
M2.5 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	NA
M6 1			
M8 1.25			
M10 1.5			
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.