

# Datasheet

**RS Stock No: 553970**

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



Countersunk, also known as flat head machine screws, are designed for ease of assembly with these particular slotted drive types being the most popular. 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
- Slotted drive type
- Threaded in accordance with DIN 963 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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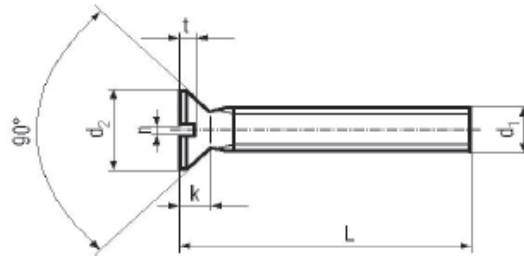
Please view our range listing below for more Clear Passivated, Zinc Plated Steel, Countersunk Head Machine Screws:

Head Shape	Drive Type	Material	Thread Size	Length	RS Part No.
Countersunk	Slot	Zinc Plated Steel	M3	6 mm	553841
Countersunk	Slot	Zinc Plated Steel	M3	12 mm	553857
Countersunk	Slot	Zinc Plated Steel	M3	20 mm	553863
Countersunk	Slot	Zinc Plated Steel	M4	12 mm	553879
Countersunk	Slot	Zinc Plated Steel	M4	16 mm	553885
Countersunk	Slot	Zinc Plated Steel	M4	20 mm	553891
Countersunk	Slot	Zinc Plated Steel	M4	25 mm	553908
Countersunk	Slot	Zinc Plated Steel	M5	12 mm	553914
Countersunk	Slot	Zinc Plated Steel	M5	16 mm	553920
Countersunk	Slot	Zinc Plated Steel	M5	20 mm	553936
Countersunk	Slot	Zinc Plated Steel	M5	25 mm	553942
Countersunk	Slot	Zinc Plated Steel	M6	12 mm	553958
Countersunk	Slot	Zinc Plated Steel	M6	20 mm	553970
Countersunk	Slot	Zinc Plated Steel	M6	40 mm	553992



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FLAT HEAD SLOTTED MACHINE SCREWS DIN 963 / ISO 2009 / JIS B 1101 / ANSI B 18.16.7 M



Head Diameter (d2)	Size d1	M1.6		M2		M2.5		M3		(M3.5)		M4		M5		M6		M8		M10	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Standard																					
DIN 963 (1990)		2.65	3.00	3.50	3.80	4.40	4.70	5.30	5.60	6.14	6.50	7.14	7.50	8.94	9.20	10.57	11.00	14.07	14.50	17.57	18.00
ISO 2009 (1984)		2.70	3.00	3.50	3.80	4.40	4.70	5.20	5.50	6.94	7.30	8.04	8.40	8.94	9.30	10.87	11.30	15.37	15.80	17.78	18.30
JIS B 1101 (1977)		2.80	3.20	3.60	4.00	4.60	5.00	5.60	6.00	6.50	7.00	7.50	8.00	9.40	10.00	11.30	12.00	15.20	16.00		
ANSI B 18.16.7 M (1985)				3.50		4.40		5.20		6.90		8.00		8.90		10.90		15.40		17.80	

Head Height (k)	Size d1	M1.6		M2		M2.5		M3		(M3.5)		M4		M5		M6		M8		M10	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Standard																					
DIN 963 (1990)			0.95		1.20		1.50		1.65		1.93		2.20		2.50		3.00		4.00		5.00
ISO 2009 (1984)			1.00		1.20		1.50		1.65		2.35		2.70		2.70		3.30		4.65		5.00
JIS B 1101 (1977)		0.85	0.95	1.00	1.20	1.25	1.45	1.45	1.75	1.70	2.00	2.00	2.30	2.50	2.80	3.00	3.40	4.00	4.40		
ANSI B 18.16.7 M (1985)					1.20		1.50		1.70		2.30		2.70		2.70		3.30		4.60		5.00

Slot Width (n)	Size d1	M1.6		M2		M2.5		M3		(M3.5)		M4		M5		M6		M8		M10	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Standard																					
DIN 963 (1990)		0.45	0.50	0.55	0.70	0.55	0.80	0.85	1.00	0.85	1.00	1.05	1.20	1.25	1.25	1.51	1.66	1.91	2.05	2.31	2.55
ISO 2009 (1984)		0.45	0.60	0.55	0.70	0.65	0.80	0.85	1.00	1.05	1.20	1.25	1.51	1.25	1.51	1.66	1.91	2.05	2.31	2.55	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	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

Slot Depth (t)	Size d1	M1.6		M2		M2.5		M3		(M3.5)		M4		M5		M6		M8		M10	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Standard																					
DIN 963 (1990)		0.32	0.45	0.40	0.50	0.50	0.70	0.60	0.85	0.70	1.00	0.80	1.10	1.00	1.30	1.20	1.50	1.60	2.10	2.00	2.60
ISO 2009 (1984)		0.32	0.50	0.40	0.50	0.50	0.75	0.60	0.85	0.90	1.20	1.00	1.30	1.10	1.40	1.20	1.50	1.80	2.30	2.00	2.60
JIS B 1101 (1977)		0.30	0.40	0.40	0.50	0.50	0.70	0.60	0.80	0.65	0.95	0.75	1.05	0.90	1.30	1.15	1.65	1.50	2.10		
ANSI B 18.16.7 M (1985)					0.40	0.60	0.50	0.70	0.60	0.90	0.90	1.20	1.00	1.30	1.10	1.40	1.20	1.60	1.80	2.30	2.00

Length Tolerance	DIN 963/ISO 2009	
	min	max
2		
2.5		
3	2.80	3.20
4	3.75	4.24
5	4.75	5.24
6	5.75	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	28.58	30.42
35	34.58	35.50
40	39.50	40.50
45	44.50	45.50
50	49.50	50.50
(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	88.90	91.10

JIS B 1101					
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
11.7	12.3
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 Sp		
Dia.	Pitch	Thread Tolerance Plated Sp	
		Thread Tolerance Stainless Sp	
M1.6	0.35		
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)	0.5	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

DIN 963 (1990)	Do Not Specify A Minimum Head Height
ISO 2009 (1984)	
ANSI B 18.16.7 M (1985)	

ANSI B 18.16.7 M (1985)	Does Not Specify A Maximum Head Diameter
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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.