

# Datasheet

**RS Stock No: 8229290**

## **Steel Bright Zinc Plated, Hexagon Countersunk Socket Screws: Metric Thread**



Countersunk socket screws are designed for light duty applications where there is limited space. These screws are widely used in many applications where a strong and reliable joint is required. Typically countersunk socket screws are used to fasten plates and strips of metal to equipment and machinery as their flat head allows a flush flat finish. This range of socket screws is bright zinc plated and is suitable for indoor and dry environments.

- Threaded in accordance with Din 7991 standard
- Bright Zinc Plated Steel
- Used in applications where a wider head and lower profile is required
- Suitable for light fastening applications
- Typical applications include; Machine tooling, Security Guarding, Panel Building and General Fastening Applications
- Also used in many internal joinery applications
- Requires a Hex key / Allen key



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Please view our full range listing below for all Bright Zinc Plated Steel Hexagon Socket Countersunk Head Screws.

Head Shape	Material	Thread Size	Length	RS Part No.
Hex Socket Countersunk	Zinc Plated Steel	M3	8 mm	4839751
Hex Socket Countersunk	Zinc Plated Steel	M3	10 mm	4839773
Hex Socket Countersunk	Zinc Plated Steel	M3	12 mm	4839767
Hex Socket Countersunk	Zinc Plated Steel	M4	8 mm	4839789
Hex Socket Countersunk	Zinc Plated Steel	M4	10 mm	4839789
Hex Socket Countersunk	Zinc Plated Steel	M4	12 mm	4389802
Hex Socket Countersunk	Zinc Plated Steel	M4	16 mm	4389818
Hex Socket Countersunk	Zinc Plated Steel	M4	20 mm	4915085
Hex Socket Countersunk	Zinc Plated Steel	M4	25 mm	4915091
Hex Socket Countersunk	Zinc Plated Steel	M4	30 mm	4915108
Hex Socket Countersunk	Zinc Plated Steel	M5	10 mm	4839824
Hex Socket Countersunk	Zinc Plated Steel	M5	12 mm	4839830
Hex Socket Countersunk	Zinc Plated Steel	M5	16 mm	4839846
Hex Socket Countersunk	Zinc Plated Steel	M5	20 mm	4839852
Hex Socket Countersunk	Zinc Plated Steel	M5	25 mm	4915114
Hex Socket Countersunk	Zinc Plated Steel	M5	30 mm	4915120
Hex Socket Countersunk	Zinc Plated Steel	M6	10 mm	4915142
Hex Socket Countersunk	Zinc Plated Steel	M6	12 mm	4839868
Hex Socket Countersunk	Zinc Plated Steel	M6	16 mm	4839874
Hex Socket Countersunk	Zinc Plated Steel	M6	20 mm	4839896
Hex Socket Countersunk	Zinc Plated Steel	M6	25 mm	4839903
Hex Socket Countersunk	Zinc Plated Steel	M6	30 mm	4915158
Hex Socket Countersunk	Zinc Plated Steel	M6	35 mm	4915164
Hex Socket Countersunk	Zinc Plated Steel	M6	40 mm	4915170
Hex Socket Countersunk	Zinc Plated Steel	M6	50 mm	8229252
Hex Socket Countersunk	Zinc Plated Steel	M6	60 mm	8229256



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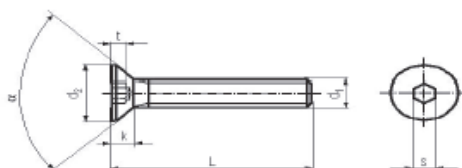
Please view our full range listing below for all Bright Zinc Plated Steel Hexagon Socket Countersunk Head Screws.

Head Shape	Material	Thread Size	Length	RS Part No.
Hex Socket Countersunk	Zinc Plated Steel	M8	12 mm	4839919
Hex Socket Countersunk	Zinc Plated Steel	M8	16 mm	4839925
Hex Socket Countersunk	Zinc Plated Steel	M8	20 mm	4839931
Hex Socket Countersunk	Zinc Plated Steel	M8	25 mm	4839953
Hex Socket Countersunk	Zinc Plated Steel	M8	30 mm	4839969
Hex Socket Countersunk	Zinc Plated Steel	M8	35 mm	4915186
Hex Socket Countersunk	Zinc Plated Steel	M8	40 mm	4915192
Hex Socket Countersunk	Zinc Plated Steel	M8	50 mm	8229265
Hex Socket Countersunk	Zinc Plated Steel	M8	60 mm	8229268
Hex Socket Countersunk	Zinc Plated Steel	M10	20 mm	8229262
Hex Socket Countersunk	Zinc Plated Steel	M10	25 mm	8229271
Hex Socket Countersunk	Zinc Plated Steel	M10	30 mm	8229274
Hex Socket Countersunk	Zinc Plated Steel	M10	35 mm	8229278
Hex Socket Countersunk	Zinc Plated Steel	M10	40 mm	8229287
Hex Socket Countersunk	Zinc Plated Steel	M10	50 mm	8229280
Hex Socket Countersunk	Zinc Plated Steel	M12	25 mm	8229284
Hex Socket Countersunk	Zinc Plated Steel	M12	30 mm	8229293
Hex Socket Countersunk	Zinc Plated Steel	M12	35 mm	8229296
Hex Socket Countersunk	Zinc Plated Steel	M12	40 mm	8229290
Hex Socket Countersunk	Zinc Plated Steel	M12	45 mm	8229300
Hex Socket Countersunk	Zinc Plated Steel	M12	50 mm	8229303



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FLAT HEAD SOCKET CAP SCREWS DIN 7991 / ISO 10642 / ANSI B18.3.5M



\*\*\*\*\*Notice\*\*\*\*\*  
Lindstrom Metric, LLC will supply all Flat Head Socket Cap Screws With Full Thread, not according to below formulas.

Thread Size d1	(M2)	(M2.5)	M3	M4	M5	M6	M8	M10	M12	(M14)	M16	(M18)	M20	(M22)	M24		
Thread Pitch	0.4	0.45	0.5	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3		
Head Angle a	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	60°	60°		
DIN 7991 Thread Length Formula	For Lengths ≤125mm		10	11	12	14	16	18	22	26	30	34	38	42	46	50	54
	For Lengths >125mm≤200mm							24	28	32	36	40	44	48	52	56	60
	For Lengths >200 mm								45	49	53	57	61	65	69	73	
ISO 10642 & ANSI B18.3.5M use a shank length / grip length formula to determine thread length. - Refer to full ISO or ANSI standard for more details.																	
DIN 7991 Head Dia. d2	min.	3.7	4.7	5.7	7.64	9.64	11.57	15.57	19.48	23.48	26.48	29.48	32.38	35.38	35.38	38.38	
	max. = nominal	4.0	5.0	6.0	8.00	10.00	12.00	16.00	20.00	24.00	27.00	30.00	33.00	36.00	36.00	39.00	
ISO 10642 Head Dia. d2	min.			5.54	7.53	9.43	11.34	15.24	19.22	23.12	26.52	29.01		36.05			
	max. = theoretical			6.72	8.96	11.20	13.44	17.92	22.40	26.88	30.80	33.60		40.32			
ANSI B18.3.5M Head Dia. D2	min.			5.35	7.80	9.75	11.70	15.65	19.50	23.40	26.18	23.76		34.60			
	max. = theoretical			6.72	8.96	11.20	13.44	17.92	22.40	26.88	30.24	33.60		40.32			
ISO 10642 & ANSI B18.3.5M use a theoretical value for the max head diameter, which represents the exact diameter of a hole countersunk to exactly 90° in which a screw having the maximum head size will fit flush. - Refer to full ISO or ANSI standard for more details.																	

DIN 7991 Head Height k	max.	1.2	1.5	1.7	2.3	2.8	3.3	4.4	5.5	6.5	7	7.5	8	8.5	13.1	14
ISO 10642 Head Height k	max. = reference			1.86	2.48	3.10	3.72	4.96	6.20	7.44	8.40	8.80		10.16		
ANSI B18.3.5M Head Height k	max. = reference			1.86	2.48	3.10	3.72	4.96	6.20	7.44	8.12	8.80		10.16		

ISO 10642 & ANSI B18.3.5M show Head Height k as a reference point only. - Refer to full ISO or ANSI standard for more details.

For DIN 7991 / ISO 10642 / ANSI B18.3.5M, the overall length of the screw includes the head.

DIN 7991 Key Size s	Nominal Size	1.3	1.5	2	2.5	3	4	5	6	8	10	10	12	12	14	14
	min.	1.275	1.545	2.02	2.52	3.02	4.02	5.02	6.02	8.025	10.025	10.025	12.032	12.032	14.032	14.032
max.	1.300	1.520	2.10	2.60	3.10	4.12	5.14	6.14	8.175	10.175	10.175	12.212	12.212	14.212	14.212	
ISO 10642 Key Size s	Nominal Size			2	2.5	3	4	5	6	8	10	10	12	12	14	14
	min.			2.02	2.52	3.02	4.020	5.02	6.02	8.025	10.025	10.025		12.032		
	max.			2.06	2.58	3.08	4.095	5.14	6.14	8.175	10.175	10.175		12.212		
ANSI B18.3.5M Key Size s	Nominal Size			2	2.5	3	4	5	6	8	10	10	12	12	14	14
	min.			2.020	2.52	3.020	4.020	5.020	6.020	8.025	10.025	10.025		12.032		
	max.			2.045	2.56	3.071	4.084	5.084	6.095	8.115	10.115	10.115		12.142		
DIN 7991 Key Engagement t	min.	0.75	0.8	0.950	1.55	2.05	2.25	3.2	4.1	4.3	4.5	5.0	5.2	5.6	8.44	9.87
ISO 10642 Key Engagement t	min.			1.100	1.50	1.90	2.20	3.0	3.6	4.3	4.5	4.8		5.6		
ANSI B18.3.5M Key Engagement t	min.			1.100	1.50	1.90	2.20	3.0	3.6	4.3	4.7	4.8		5.6		

Length Tolerance	DIN 7991 / ISO 10642		ANSI B18.3.5M		Length Tolerance		DIN 7991 / ISO 10642		ANSI B18.3.5M	
	min	max	min	max	Nominal Length	min	max	min	max	
Nominal Length										
(4)	3.76	4.24	3.7	4.3	30	29.58	30.42	29.5	30.5	
(5)	4.76	5.24	4.7	5.3	35	34.5	35.5	34.5	35.5	
(6)	5.76	6.24	5.7	6.3	40	39.5	40.5	39.5	40.5	
8	7.71	8.29	7.7	8.3	45	44.5	45.5	44.5	45.5	
10	9.71	10.29	9.7	10.3	50	49.5	50.5	49.5	50.5	
12	11.65	12.35	11.7	12.3	(55)	54.4	55.6	54.5	55.5	
(14)	13.65	14.35	13.7	14.3	60	59.4	60.6	59.5	60.5	
16	15.65	16.35	15.7	16.3	(65)	64.4	65.6	64.2	65.8	
(18)	17.65	18.35	17.5	18.5	70	69.4	70.6	69.2	70.8	
20	19.58	20.42	19.5	20.5	(75)	74.4	75.6	74.2	75.8	
(22)	21.58	22.42	21.5	22.5	80	79.4	80.6	79.2	80.8	
25	24.58	25.42	24.5	25.5	90	89.3	90.7	89.2	90.8	
(28)	27.58	28.42	27.5	28.5	100	99.3	100.7	99.2	100.8	

\*\*\*\*\*Notice\*\*\*\*\*  
Diameters and or Lengths shown with ( ) are not shown in some standards are not recommended for use in new design.

\*\*\*\*\*Notice\*\*\*\*\*  
DIN 7991, ISO 10642, and ANSI B18.3.5M are not intended for high strength applications. The only purpose of having them produced in property class 10.9 or 12.9 is to increase the wear resistance of the socket drive.

	DIN 7991 / ISO 10642		ANSI B18.3.5M
Material	Steel	Stainless Steel	Steel
Property Class	10.9	A2 & A4	12.9
Finish	Furnace Black	Plain	Furnace Black
Thread Tolerance	6g	6g	4g6g