

#### **FEATURES**

- Various thread sizes available
- High-quality threaded design
- Head height is equal to shank diameter
- More cost effective than titanium

# RS PRO M10 x 25mm Hex Socket Cap Screw Plain Stainless Steel

RS Stock No.: 660-4655



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.



### **Product Description**

Brought to you by RS Pro, a range of hex head socket cap screws. Due to their narrow head and lengthy body shape, they are perfect for use in difficult and hard to reach areas. All threaded socket screws are designed to be long lasting and efficient within their applications, especially these A4 stainless steel versions. All models are highly reliable and excellent quality

### **General Specifications**

Thread Size	M10
Head Shape	Hex Socket Cap
Material	Stainless Steel
Finish	Plain
Thread Type	Metric
Applications	Woodworking, Domestic applications, Fasteners and fixings, Machine tooling and repair, Security guarding, Panel Building

#### **Mechanical Specifications**

Length	25mm
Stainless Steel Type	316 A4
Thread Pitch	1.5mm
Thread Tolerance	6g

#### **Operation Environment Specifications**

Maximum Temperature	300°C
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# **Approvals**

**Compliance/Certifications**RoHS Certificate Of Compliance ,ISO4762, ANSI B18,DIN912





# **Socket Screws**



Please view our full range listing below for all A4 316 Stainless Steel Self-Colour Hexagon Socket Cap Head Screws:

Head Shape	Material	Material Thread Size		RS Part No.		
Hex Socket Cap	Stainless Steel	М3	6 mm	1871207		
Hex Socket Cap	Stainless Steel	М3	8 mm	1871213		
Hex Socket Cap	Stainless Steel	М3	10 mm	6604636		
Hex Socket Cap	Stainless Steel	М3	12 mm	1871229		
Hex Socket Cap	Stainless Steel	М3	16 mm	1871235		
Hex Socket Cap	Stainless Steel	М3	20 mm	3044429		
Hex Socket Cap	Stainless Steel	М3	25 mm	3044435		
Hex Socket Cap	Stainless Steel	М3	30 mm	3044615		
Hex Socket Cap	Stainless Steel	M4	8 mm	1871241		
Hex Socket Cap	Stainless Steel	M4	10 mm	6604639		
Hex Socket Cap	Stainless Steel	M4	12 mm	1871257		
Hex Socket Cap	Stainless Steel	M4	16 mm	1871263		
Hex Socket Cap	Stainless Steel	M4	20 mm	1871279		
Hex Socket Cap	Stainless Steel	M4	25 mm	1871285		
Hex Socket Cap	Stainless Steel	M4	30 mm	1871308		
Hex Socket Cap	Stainless Steel	M4	40 mm	3044609		
Hex Socket Cap	Stainless Steel	M4	50 mm	3044592		
How Socket Con	Ctainless Ctasl	ME	0	6604633		
Hex Socket Cap	Stainless Steel	M5	8 mm	6604633		
Hex Socket Cap	Stainless Steel	M5	10 mm	3044586		
Hex Socket Cap	Stainless Steel	M5	12 mm	1871314		
Hex Socket Cap	Stainless Steel	M5	16 mm	1871320		
Hex Socket Cap	Stainless Steel	M5	20 mm	1871336		
Hex Socket Cap	Stainless Steel	M5	25 mm	1871342		
Hex Socket Cap	Stainless Steel	M5	30 mm	1871364		
Hex Socket Cap	Stainless Steel	M5	40 mm	1871370		
Hex Socket Cap	Stainless Steel	M5	50 mm	3044570		
Hex Socket Cap	Stainless Steel	M5	60 mm	3044564		

# **Socket Screws**



Head Shape	Material	Thread Size	Length	RS Part No.	
Hex Socket Cap	Stainless Steel	M6	10 mm	6604642	
Hex Socket Cap	Stainless Steel	M6	12 mm	1871386	
Hex Socket Cap	Stainless Steel	M6	16 mm	1871392	
Hex Socket Cap	Stainless Steel	M6	20 mm	1871409	
Hex Socket Cap	Stainless Steel	M6	25 mm	1871421	
Hex Socket Cap	Stainless Steel	M6	30 mm	1871437	
Hex Socket Cap	Stainless Steel	M6	35 mm	1871443	
Hex Socket Cap	Stainless Steel	M6	40 mm	1871459	
Hex Socket Cap	Stainless Steel	M6	45 mm	6604645	
Hex Socket Cap	Stainless Steel	M6	50 mm	1871465	
Hex Socket Cap	Stainless Steel	M6	60 mm	3044558	
Hex Socket Cap	Stainless Steel	M8	16 mm	1871471	
Hex Socket Cap	Stainless Steel	M8	20 mm	1871487	
Hex Socket Cap	Stainless Steel	M8	25 mm	1871493	
Hex Socket Cap	Stainless Steel	M8	30 mm	1871500	
Hex Socket Cap	Stainless Steel	M8	35 mm	1871516	
Hex Socket Cap	Stainless Steel	M8	40 mm	1871522	
Hex Socket Cap	Stainless Steel	M8	45 mm	6604649	
Hex Socket Cap	Stainless Steel	M8	50 mm	1871538	
Hex Socket Cap	Stainless Steel	M8	60 mm	1871544	
Hex Socket Cap	Stainless Steel	M8	70 mm	6604658	
Hex Socket Cap	Stainless Steel	M8	80 mm	6604651	
Hex Socket Cap	Stainless Steel	M10	20 mm	3044542	
Hex Socket Cap	Stainless Steel	M10	25 mm	6604655	
Hex Socket Cap	Stainless Steel	M10	30 mm	3044520	
Hex Socket Cap	Stainless Steel	M10	40 mm	3044514	
Hex Socket Cap	Stainless Steel	M10	50 mm	3044508	
Hex Socket Cap	Stainless Steel	M10	70 mm	3044485	
Hex Socket Cap	Stainless Steel	M12	30 mm	3044463	
Hex Socket Cap	Stainless Steel	M12	40 mm	3044457	
Hex Socket Cap	Stainless Steel	M12	50 mm	3044441	







## Head Diameter d2 based on

Thread Size d1	M	36	(N	(39)	M	42	(M	(M45) M48		48	M56		M64	
Thread Pitch		4		4	4.	5	4	.5	5		5.5		6	
Thread Length b	8	4	ı	IA.	9	6	N	IA.	10	18	13	24	14	10
Head Dia. d2	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	53.54	54.46	57.54	58.46	62.54	63.46	66.54	67.46	71.54	72.46	83.46	84.54	95.46	96.54
ISO 4762 (1997)	53,54	54.46			62,54	63,46			71,54	72.46	83.46	84.54	95.46	96.54
ANSI B 18.3.1 M (1986)	53.37	54.45			62.31	63.46			71.27	72.46				
Head Height k	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	35.38	36.00	38.38	39.00	41.38	42.00	44.38	45.00	47.38	48.00	55.26	56.00	63.26	64.00
ISO 4762 (1997)	35.38	36.00			41.38	42.00			47.38	48.00	55.26	56.00	63.26	64.00
ANSI B 18.3.1 M (1986)	35.64	36.00			41.61	42.00			47.58	48.00				
Key Size nominal s	2	7		27	3	_		2	36			1	46	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	27.065	27.275	27.065	27.275	32.08	32.33	32.08	32.33	36.08	36.33	41.08	41.33	45.08	46.33
ISO 4762 (1997)	27.065	27.275			32.08	32.33			36.08	36.33	41.08	41.33	45.08	46.33
ANSI B 18.3.1 M (1986)	27.065	27.319			32.080	32.461			36.080	36.461				
Key Engagement t	m			min. min.			in.	min.		min.		min.		
DIN 912 (1983)		9		22		4	24		28		34		38	
ISO 4762 (1997)		9			2				28		34		38	
ANGI D 18.3.1 M (1986)	1	8			2	1			2	4				
		72	N	80	M M		M	100	2	4				
ANSI B 18.3.1 M (1986) Thread Size d1 Thread Pitch	M		N	80 6				100	2	4				
Thread Size d1 Thread Pitch	М	72		80 6 72		90			2	4				
Thread Size d1 Thread Pitch Thread Length b	М	72 6		6	M	90		6	2	4				
Thread Size d1 Thread Pitch Thread Length b Head Dia, d2 DIN 912 (1983)	M 1	72 56 max. 108.54	1	72 max. 120.54	Min. 19 min. 134.37	90 32 max. 135.63	2 min. 149.37	12 max. 150.63	2	4				
Thread Size d1 Thread Pitch Thread Length b Head Dia, d2 DIN 912 (1983) Head Height k	1: min. 107.46 min.	72 56 max. 108.54 max.	min. 119.46 min.	72 max. 120.54 max.	M: 19 min. 134.37 min.	90 22 max. 135.63 max.	2 mln. 149.37 mln.	12 max. 150.63 max.	2	14				
Thread Size d1 Thread Pitch Thread Length b Head Dia. d2 DIN 912 (1983) Head Height k DIN 912 (1983)	15 min. 107.46	72 56 max. 108.54	min. 119.46	72 max. 120.54	Min. 19 min. 134.37	90 32 max. 135.63	2 min. 149.37	12 max. 150.63	2	4				
Thread Size d1 Thread Pitch Thread Length b Head Dia. d2 DIN 912 (1983) Head Height k DIN 912 (1983)	13 min. 107.46 min. 71.26	72 56 max. 108.54 max.	min. 119.46 min.	72 max. 120.54 max.	M: 19 min. 134.37 min.	90 22 max. 135.63 max.	2 mln. 149.37 mln.	12 max. 150.63 max.	2	4				
Thread Size d1 Thread Pitch Thread Length b Head Dia. d2 DIN 912 (1983) Head Height k DIN 912 (1983) Key Size nominal s	11: min. 107.46 min. 71.26	72 5 56 max. 108.54 max. 72.00 5 max.	1 min. 119.46 min. 79.26 min.	72 max. 120.54 max. 80.00 35 max.	Min. 19 min. 134.37 min. 89.13 7 min.	90 52 max. 135.63 max. 90.00 5	2 min. 149.37 min. 99.13	12 max. 150.63 max. 100.00 5 max.	2	4				
Thread Size d1 Thread Pitch Thread Length b Head Dia, d2 DIN 912 (1983) Head Height k DIN 912 (1983) Key Size nominal s DIN 912 (1983)	min. 107.46 min. 71.26	72 56 56 max. 108.54 max. 72.00	1 min. 119.46 min. 79.26	72 max. 120.54 max. 80.00	Min. 19 min. 134.37 min. 89.13	90 5 32 max. 135.63 max. 90.00	2 min. 149.37 min. 99.13	max. 150.63 max. 100.00	2	4				
Thread Size d1 Thread Pitch Thread Pitch Thread Length b Head Dia. d2 DIN 912 (1983) Head Height k DIN 912 (1983) Key Size nominal s DIN 912 (1983) Key Engagementt	13 min. 107.46 min. 71.26 5 min. 55.10	72 5 5 56 max. 108.54 max. 72.00 5 max. 55.40 In.	1 min. 119.45 min. 79.26 min. 65.10 m	6 72 max. 120.54 max. 80.00 35 max. 65.40	Min. 134.37 min. 89.13 7 min. 75.10 mi	90 32 max. 135.63 max. 90.00 5 max. 75.40 n.	2 min. 149.37 mln. 99.13 8 mln. 85.12 m	6 12 max. 150.63 max. 100.00 5 max. 85.47	2	4				
Thread Size d1 Thread Pitch Thread Pitch Thread Length b Head Dia. d2 DIN 912 (1983) Head Height k DIN 912 (1983) Key Size nominal s DIN 912 (1983) Key Engagementt	13 min. 107.46 min. 71.26 5 min. 55.10	72 5 5 56 max. 108.54 max. 72.00 5 max. 55.40	1 min. 119.45 min. 79.26 min. 65.10 m	6 72 max. 120.54 max. 80.00 35 max. 65.40	Min. 19 min. 134.37 min. 89.13 7 min. 75.10	90 32 max. 135.63 max. 90.00 5 max. 75.40 n.	2 min. 149.37 mln. 99.13 8 mln. 85.12 m	6 12 max. 150.63 max. 100.00 5 max. 85.47	2	4				
Thread Size d1 Thread Pitch Thread Pitch Thread Length b Head Dia. d2 DIN 912 (1983) Head Height k DIN 912 (1983) Key Size nominal s DIN 912 (1983) Key Engagementt DIN 912 (1983)	11: min. 107.46 min. 71.26 5 min. 55.10	72 5 5 56 max. 108.54 max. 72.00 5 max. 55.40 In.	1 min. 119.46 min. 79.26 min. 65.10	6 72 max. 120.54 max. 80.00 35 max. 65.40	Min. 134.37 min. 89.13 7 min. 75.10 mi	90 30 32 2 2 2 35.63 3 35.63 3 36.00 5 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00	2 min. 149.37 min. 99.13 8 min. 85.12	6 12 max. 150.63 max. 100.00 5 max. 85.47		A4-50	A2  /	A4-70	A2 IA	M4-80
Thread Size di Thread Pitch Thread Length b Head Dia. d2 DIN 912 (1983) Head Height k DIN 912 (1983) Key Size nominal s DIN 912 (1983) Key Engagement t DIN 912 (1983) Property Clase Tensile Strength	11.7.46 min. 71.26 5 min. 55.10	72 5 5 56 max. 108.54 max. 72.00 5 max. 55.40 in.	1 min. 119.45 min. 79.26 min. 65.10 m	6 72 max. 120.54 max. 80.00 35 max. 65.40 nin.	Min. 134.37 min. 134.37 min. 89.13 7 min. 75.10 mi 5	90 30 32 2 2 2 35.63 3 35.63 3 36.00 5 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 3 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00 5 36.00	2 min. 149.37 min. 99.13 min. 85.12 m	6 12 max. 150.63 max. 100.00 35 max. 85.47 in.	A2 1/			A4-70 00 psi	A2 IA	
Thread Size d1	11: min. 107.46 min. 71.26 5 min. 55.10 m	72 55 56 max. 108.54 max. 72.00 5 max. 55.40 in.	1 min. 119.46 min. 79.26 min. 65.10 m	6 72 max. 120.54 max. 80.00 35 max. 65.40 iln.	Min. 134.37 min. 134.37 min. 89.13 7 min. 75.10 mi 5	90 5 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 min. 149.37 min. 99.13 8 min. 85.12 m 6 10 15080 1363	6 12 max. 150.63 max. 100.00 (5 max. 85.47 in. 60 00 psi 00 psi 00 psi	A2 I/ 7250 3045	A4-50 00 psi 50 psi	1015 6525	00 psi 50 psi	11600 8700	00 psl 0 psl
Thread Size di Thread Pitch Thread Length b Head Dia. d2 DIN 912 (1983) Head Height k DIN 912 (1983) Key Size nominal s DIN 912 (1983) Key Engagement t DIN 912 (1983) Property Class Tensile Strength	11: min. 107.46 min. 71.26 5 min. 55.10 m	72 5 56 max. 108.54 max. 72.00 5 max. 55.40 in. 3	1 min. 119.45 min. 79.26 min. 65.10 m	6 72 max. 120.54 max. 80.00 s5 max. 65.40 his 16 mm 00 psi	M: 6 19 min. 134.37 min. 89.13 7 min. 75.10 mi 5 8.8≥d 12038	90 5 62 max. 135.63 max. 90.00 5 max. 75.40 n. 4 16mm 60 psi	2 min. 149.37 min. 99.13 8 min. 85.12 m 6	12 max. 150.63 max. 100.00 15 max. 85.47 lin.	A2 // 7250	A4-50 00 psi	1015	00 psi	11600	00 psl

Property Class	Steel	Steel	Stainless Steel		
Property Class	12.9	8.8 & 10.9	A2 & A4		
Finish	F	umace Black	Plain		
Thread Tolerance	5q6q	60			

Diameters & Lengths With ( ) are not recommended for new design M1.4, 2.6, 39 and 45 are no longer included in DIN 912.

The basic difference between DIN 912-12.9 (1983) / ISO 4762-12.9 (1997) and ANSI B 18.3.M (1986) is both DIN and ISO have a thread tolerance of Sg6g, while ANSI has a thread tolerance of 4g6g, which may not be readily available on a worldwide basis

ANSI B 18.3.1 M is only available in Property Class 12.9.

For More Detailed Information, Please Refer To Complete DIN, ISO, or ANSI Standard, Which Are The Governing Standards.

DIN 912 (1983) / ISO 4762 (1997) / ANSI B 18.3.1M (1982) - LGF 05/01/08

See Next Page For Additional Information