

## FEATURES

- Can be used instead of hex bolt when there is less clearance
- Head height is equal to shank diameter
- Socket Head Cap Screw – strongest of all head styles
- Various thread sizes available

## RS PRO M6 x 12mm Hex Socket Cap Screw Plain Stainless Steel

RS Stock No.: 281-108



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

The RS PRO hexagon head socket cap screws have a narrow head and are perfect for use in hard to reach areas. The fasteners are useful in machine repair and maintenance and in many sectors. As these socket cap screws are made from A2 (304) stainless steel, they are ideal for use in the food and beverage industry. A2 stainless steel provides good corrosion resistance and is more affordable than A4 (316) stainless steel.

## General Specifications

<b>Thread Size</b>	M6
<b>Head Shape</b>	Hex Socket Cap
<b>Material</b>	Stainless Steel
<b>Finish</b>	Plain
<b>Thread Type</b>	Metric
<b>Applications</b>	Woodworking, Domestic applications, Fasteners and fixings, Machine tooling and repair, Security guarding, Panel Building

## Mechanical Specifications

<b>Length</b>	12mm
<b>Stainless Steel Type</b>	304 A2
<b>Thread Pitch</b>	1mm
<b>Head Diameter Range</b>	9.74mm to 10.22mm
<b>Head Height Range</b>	5.7mm to 6mm
<b>Key Size Nominal Range</b>	5.02mm to 5.14mm
<b>Key Engagement</b>	3mm

## Approvals

### Compliance/Certifications

RoHS Certificate Of Compliance ,DIN912 , ISO4762, ANSI B18



Please view our full range listing below for all A2 304 Stainless Steel Hexagon Cap Socket Screws:

Head Shape	Material	Thread Size	Length	RS Part No.
Hex Socket Cap	Stainless Steel	M3	6 mm	280981
Hex Socket Cap	Stainless Steel	M3	8 mm	280997
Hex Socket Cap	Stainless Steel	M3	10 mm	7976266
Hex Socket Cap	Stainless Steel	M3	12 mm	281007
Hex Socket Cap	Stainless Steel	M3	16 mm	281013
Hex Socket Cap	Stainless Steel	M3	20 mm	293319
Hex Socket Cap	Stainless Steel	M3	25 mm	293325
Hex Socket Cap	Stainless Steel	M3	30 mm	293331

Hex Socket Cap	Stainless Steel	M4	8 mm	281029
Hex Socket Cap	Stainless Steel	M4	10 mm	7976260
Hex Socket Cap	Stainless Steel	M4	12 mm	281035
Hex Socket Cap	Stainless Steel	M4	16 mm	281041
Hex Socket Cap	Stainless Steel	M4	20 mm	290102
Hex Socket Cap	Stainless Steel	M4	25 mm	281057
Hex Socket Cap	Stainless Steel	M4	30 mm	290118
Hex Socket Cap	Stainless Steel	M4	40 mm	293347
Hex Socket Cap	Stainless Steel	M5	10 mm	281063
Hex Socket Cap	Stainless Steel	M5	12 mm	281079
Hex Socket Cap	Stainless Steel	M5	16 mm	281085
Hex Socket Cap	Stainless Steel	M5	20 mm	281091
Hex Socket Cap	Stainless Steel	M5	25 mm	290124
Hex Socket Cap	Stainless Steel	M5	30 mm	290130
Hex Socket Cap	Stainless Steel	M5	40 mm	293353
Hex Socket Cap	Stainless Steel	M5	50 mm	293369

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Head Shape	Material	Thread Size	Length	RS Part No.
Hex Socket Cap	Stainless Steel	M6	10mm	7976279
Hex Socket Cap	Stainless Steel	M6	12 mm	281108
Hex Socket Cap	Stainless Steel	M6	16 mm	281114
Hex Socket Cap	Stainless Steel	M6	20 mm	281120
Hex Socket Cap	Stainless Steel	M6	25 mm	281136
Hex Socket Cap	Stainless Steel	M6	30 mm	290146
Hex Socket Cap	Stainless Steel	M6	35 mm	293375
Hex Socket Cap	Stainless Steel	M6	40 mm	293381
Hex Socket Cap	Stainless Steel	M6	45 mm	293397
Hex Socket Cap	Stainless Steel	M6	50 mm	293404
Hex Socket Cap	Stainless Steel	M6	60 mm	293410

Hex Socket Cap	Stainless Steel	M8	16 mm	281142
Hex Socket Cap	Stainless Steel	M8	20 mm	281158
Hex Socket Cap	Stainless Steel	M8	25 mm	281164
Hex Socket Cap	Stainless Steel	M8	30 mm	281170
Hex Socket Cap	Stainless Steel	M8	35 mm	293426
Hex Socket Cap	Stainless Steel	M8	40 mm	290152
Hex Socket Cap	Stainless Steel	M8	45 mm	7976272
Hex Socket Cap	Stainless Steel	M8	50 mm	293432
Hex Socket Cap	Stainless Steel	M8	60 mm	293448
Hex Socket Cap	Stainless Steel	M10	16 mm	293454
Hex Socket Cap	Stainless Steel	M10	20 mm	293460
Hex Socket Cap	Stainless Steel	M10	25 mm	7976276
Hex Socket Cap	Stainless Steel	M10	30 mm	293476
Hex Socket Cap	Stainless Steel	M10	35 mm	7976285
Hex Socket Cap	Stainless Steel	M10	40 mm	293482
Hex Socket Cap	Stainless Steel	M10	50 mm	293498
Hex Socket Cap	Stainless Steel	M10	60 mm	293505
Hex Socket Cap	Stainless Steel	M10	70 mm	288935

Please view our full range listing below for all A2 304 Stainless Steel Hexagon Cap Socket Screws:

Head Shape	Material	Thread Size	Length	RS Part No.
Hex Socket Cap	Stainless Steel	M12	20 mm	288941
Hex Socket Cap	Stainless Steel	M12	30 mm	288957
Hex Socket Cap	Stainless Steel	M12	40 mm	288963
Hex Socket Cap	Stainless Steel	M12	50 mm	288979
Hex Socket Cap	Stainless Steel	M12	60 mm	288985
Hex Socket Cap	Stainless Steel	M12	70 mm	288991



SOCKET HEAD CAP SCREWS DIN 912/ ISO 4762 / ANSI B 18.3.1 M



Head Diameter d2 max. allows for Knurled Head

Thread Size d1	(M1.4)		M1.6		M2		M2.5		M2.6		M3		M4	
Thread Pitch	0.3		0.35		0.4		0.45		0.45		0.5		0.7	
Thread Length b	14		15		16		17		NA		18		20	
Head Dia. d2	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	2.46	2.74	2.86	3.14	3.62	3.98	4.32	4.68	4.82	5.18	5.32	5.68	6.78	7.22
ISO 4762 (1997)			2.86	3.14	3.62	3.98	4.32	4.68			5.32	5.68	6.78	7.22
ANSI B 18.3.1 M (1986)			2.87	3.14	3.65	3.98	4.33	4.68			5.32	5.68	6.80	7.22
Head Height k	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	1.26	1.40	1.46	1.60	1.86	2.00	2.36	2.50	2.46	2.60	2.86	3.00	3.82	4.00
ISO 4762 (1997)			1.46	1.60	1.86	2.00	2.36	2.50			2.86	3.00	3.82	4.00
ANSI B 18.3.1 M (1986)			1.52	1.60	1.91	2.00	2.40	2.50			2.89	3.00	3.88	4.00
Key Size nominal s	1.3		1.5		1.5		2		2		2.5		3	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	1.32	1.36	1.52	1.56	1.52	1.56	2.02	2.06	2.02	2.06	2.52	2.58	3.02	3.08
ISO 4762 (1997)			1.52	1.56	1.52	1.56	2.02	2.06			2.52	2.58	3.02	3.08
ANSI B 18.3.1 M (1986)			1.520	1.545	1.520	1.545	2.020	2.045			2.52	2.56	3.020	3.071
Key Engagement t	min.		min.		min.		min.		min.		min.		min.	
DIN 912 (1983)	0.6		0.7		1		1.10		1.2		1.3		2	
ISO 4762 (1997)			0.7		1		1.10				1.3		2	
ANSI B 18.3.1 M (1986)			0.8		1		1.25				1.5		2	

Thread Size d1	M5		M6		M8		M10		M12		(M14)		M16	
Thread Pitch	0.8		1		1.25		1.5		1.75		2		2	
Thread Length b	22		24		28		32		36		40		44	
Head Dia. d2	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	8.28	8.72	9.78	10.22	12.73	13.27	15.73	16.27	17.73	18.27	20.67	21.33	23.67	24.33
ISO 4762 (1997)	8.28	8.72	9.78	10.22	12.73	13.27	15.73	16.27	17.73	18.27	20.67	21.33	23.67	24.33
ANSI B 18.3.1 M (1986)	8.27	8.72	9.74	10.22	12.70	13.27	15.67	16.27	17.63	18.27	20.6	21.33	23.58	24.33
Head Height k	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	4.82	5.00	5.7	6.0	7.64	8.00	9.64	10.00	11.57	12.00	13.57	14.00	15.57	16.00
ISO 4762 (1997)	4.82	5.00	5.7	6.0	7.64	8.00	9.64	10.00	11.57	12.00	13.57	14.00	15.57	16.00
ANSI B 18.3.1 M (1986)	4.86	5.00	5.85	6.00	7.83	8.00	9.81	10.00	11.79	12.00	13.77	14.00	15.76	16.00
Key Size nominal s	4		5		6		8		10		12		14	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	4.020	4.095	5.02	5.14	6.02	6.14	8.025	8.175	10.025	10.175	12.032	12.212	14.032	14.212
ISO 4762 (1997)	4.020	4.095	5.02	5.14	6.02	6.14	8.025	8.175	10.025	10.175	12.032	12.212	14.032	14.212
ANSI B 18.3.1 M (1986)	4.020	4.084	5.020	5.084	6.020	6.095	8.025	8.115	10.025	10.127	12.032	12.146	14.032	14.159
Key Engagement t	min.		min.		min.		min.		min.		min.		min.	
DIN 912 (1983)	2.5		3		4		5		6		7		8	
ISO 4762 (1997)	2.5		3		4		5		6		7		8	
ANSI B 18.3.1 M (1986)	2.5		3		4		5		6		7		8	

Thread Size d1	(M18)		M20		(M22)		M24		(M27)		M30		M33	
Thread Pitch	2.5		2.5		2.5		3		3		3.5		3.5	
Thread Length b	48		52		56		60		66		72		78	
Head Dia. d2	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	26.67	27.33	29.67	30.33	32.61	33.39	35.61	36.39	39.61	40.39	44.61	45.39	49.61	50.39
ISO 4762 (1997)			29.67	30.33			35.61	36.39			44.61	45.39		
ANSI B 18.3.1 M (1986)			29.53	30.33			35.48	36.39			44.42	45.39		
Head Height k	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	17.57	18.00	19.48	20.00	21.48	22.00	23.48	24.00	26.48	27.00	29.48	30.00	32.38	33.00
ISO 4762 (1997)			19.48	20.00			23.48	24.00			29.48	30.00		
ANSI B 18.3.1 M (1986)			19.73	20.00			23.70	24.00			29.67	30.00		
Key Size nominal s	14		17		17		19		19		22		24	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	14.032	14.212	17.05	17.23	17.05	17.23	19.065	19.275	19.065	19.275	22.065	22.275	24.065	24.275
ISO 4762 (1997)			17.05	17.23			19.065	19.275			22.065	22.275		
ANSI B 18.3.1 M (1986)			17.050	17.216			19.065	19.243			22.065	22.319		
Key Engagement t	min.		min.		min.		min.		min.		min.		min.	
DIN 912 (1983)	9		10		11		12		13.5		15.5		18	
ISO 4762 (1997)			10				12				15.5			
ANSI B 18.3.1 M (1986)			10				12				15.0			

