

## FEATURES

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

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

RS Stock No.: 232-8271



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, an extensive range of button head socket screws. Made from high-quality stainless steel and utilising a hex cap for a simple and effective installation. These screws are perfect for various applications, such as machine repairs or construction. Great quality socket screws ensure peace of mind with a durable and robust build. All models are highly reliable and excellent quality.

## General Specifications

<b>Thread Size</b>	M6
<b>Head Shape</b>	Hex Socket Button
<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>	316 A4
<b>Thread Pitch</b>	1mm
<b>Head Diameter Range</b>	10.07mm to 10.50mm
<b>Head Height Range</b>	3mm to 3.30mm
<b>Key Size Nominal Range</b>	4.020mm to 4.084mm
<b>Key Engagement</b>	2.08
<b>Thread Tolerance</b>	6g

## Operation Environment Specifications

Maximum Temperature	300°C
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## Approvals

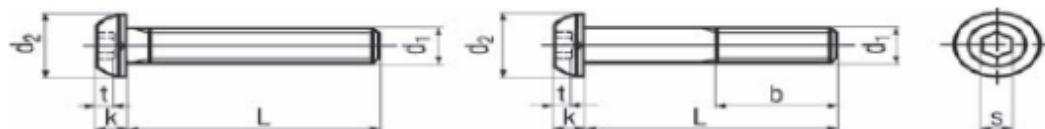
Compliance/Certifications	ROHS Certificate Of Compliance , ISO7380, ANSI B18
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Please view our full range listing below for all A4, 316 Stainless Steel Self-Colour Hexagon Socket Button Head Screws.

Head Shape	Material	Stainless Steel Type	Thread Size	Length	RS Part No.
Hex Socket Button	Stainless Steel	A4, 316	M3	8 mm	2328142
Hex Socket Button	Stainless Steel	A4, 316	M3	10 mm	2328158
Hex Socket Button	Stainless Steel	A4, 316	M3	12 mm	2328164
Hex Socket Button	Stainless Steel	A4, 316	M4	8 mm	2328170
Hex Socket Button	Stainless Steel	A4, 316	M4	10 mm	2328186
Hex Socket Button	Stainless Steel	A4, 316	M4	12 mm	2328209
Hex Socket Button	Stainless Steel	A4, 316	M4	16 mm	2328215
Hex Socket Button	Stainless Steel	A4, 316	M5	10 mm	2328221
Hex Socket Button	Stainless Steel	A4, 316	M5	12 mm	2328237
Hex Socket Button	Stainless Steel	A4, 316	M5	16 mm	2328243
Hex Socket Button	Stainless Steel	A4, 316	M5	20 mm	2328265
Hex Socket Button	Stainless Steel	A4, 316	M5	25 mm	3044643
Hex Socket Button	Stainless Steel	A4, 316	M5	30 mm	3044659
Hex Socket Button	Stainless Steel	A4, 316	M5	40 mm	3044766
Hex Socket Button	Stainless Steel	A4, 316	M5	50 mm	3044744

Hex Socket Button	Stainless Steel	A4, 316	M6	12 mm	2328271
Hex Socket Button	Stainless Steel	A4, 316	M6	16 mm	2328287
Hex Socket Button	Stainless Steel	A4, 316	M6	20 mm	2328293
Hex Socket Button	Stainless Steel	A4, 316	M6	25 mm	2328300
Hex Socket Button	Stainless Steel	A4, 316	M6	30 mm	3044738
Hex Socket Button	Stainless Steel	A4, 316	M6	40 mm	3044722
Hex Socket Button	Stainless Steel	A4, 316	M6	50 mm	3044716
Hex Socket Button	Stainless Steel	A4, 316	M6	60 mm	3044700
Hex Socket Button	Stainless Steel	A4, 316	M8	12 mm	2328322
Hex Socket Button	Stainless Steel	A4, 316	M8	16 mm	2328338
Hex Socket Button	Stainless Steel	A4, 316	M8	20 mm	2328344
Hex Socket Button	Stainless Steel	A4, 316	M8	25 mm	2328350
Hex Socket Button	Stainless Steel	A4, 316	M8	30 mm	3044687
Hex Socket Button	Stainless Steel	A4, 316	M8	40 mm	3044671
Hex Socket Button	Stainless Steel	A4, 316	M8	50 mm	3044665
Hex Socket Button	Stainless Steel	A4, 316	M8	60 mm	3044772



Thread Size d1		M3	M4	M5	M6	M8	M10	M12	M16
Thread Pitch		0.5	0.7	0.8	1	1.25	1.5	1.75	2
~ISO 7380	min.	5.4	7.24	9.14	10.07	13.57	17.07	20.48	27.48
Head Dia. d2	max.	5.7	7.60	9.50	10.50	14.00	17.50	21.00	28.00
ANSI B 18.3.4M	min.	5.4	7.24	9.14	10.07	13.57	17.07	20.48	27.48
Head Dia. d2	max.	5.7	7.60	9.50	10.50	14.00	17.50	21.00	28.00
~ISO 7380	min.	1.40	1.95	2.50	3.00	4.10	5.20	6.24	8.44
Head Height k	max.	1.65	2.20	2.75	3.30	4.40	5.50	6.60	8.80
ANSI B 18.3.4M	min.	1.43	1.95	2.50	3.00	4.05	5.20	6.24	8.44
Head Height k	max.	1.65	2.20	2.75	3.30	4.40	5.50	6.60	8.80
~ISO 7380	Nominal Size	2	2.5	3	4	5	6	8	10
Key Size s	min.	2.020	2.52	3.020	4.020	5.020	6.020	8.025	10.025
	max.	2.045	2.56	3.071	4.084	5.084	6.095	8.115	10.115
ANSI B 18.3.4M	Nominal Size	2	2.5	3	4	5	6	8	10
Key Size s	min.	2.020	2.52	3.020	4.020	5.020	6.020	8.025	10.025
	max.	2.045	2.56	3.071	4.084	5.084	6.095	8.115	10.115
~ISO 7380 Key Engagement t	min.	1.04	1.3	1.56	2.08	2.60	3.12	4.16	5.20
ANSI B 18.3.4M Key Engagement t	min.	1.04	1.3	1.56	2.08	2.60	3.12	4.16	5.20

Nominal Length	~ ISO 7380		<Length Tolerance>								ANSI B 18.3.4M	
	min	max	M3	M4	M5	M6	M8	M10	M12	M16	min	max
6	5.76	6.24									5.7	6.3
8	7.71	8.29									7.7	8.3
10	9.71	10.29									9.7	10.3
12	11.65	12.35									11.7	12.3
16	15.65	16.35									15.7	16.3
20	19.58	20.42									19.5	20.5
25	24.58	25.42									24.5	25.5
30	29.58	30.42									29.5	30.5
35	34.5	35.5									34.5	35.5
40	39.5	40.5									39.5	40.5
45	44.5	45.5									44.5	45.5
50	49.5	50.5									49.5	50.5
55	54.4	55.6									54.5	55.5
60	59.4	60.6									59.5	60.5

Nominal Lengths above the stepped line Full Thread

Nominal Lengths below the stepped line, the thread length at the discretion of the manufacturer, may be between a minimum of 2d+12mm and a maximum which is within 2 P of the head.

~ISO 7380	Neither standard is 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.
ANSI B 18.3.4M	

~ISO 7380			ANSI B 18.3.4M	
Material	Steel	Stainless Steel	Material	Steel
Property Class	10.9	A2 & A4	Property Class	12.9
Finish	Furnace Black	Plain	Finish	Furnace Black
Thread Tolerance	6g	6g	Thread Tolerance	4g6g

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