

#### **FEATURES**

- Requires a Hex key / Allen key
- Also used in many internal joinery applications
- Have the marking on the head

# RS PRO M4 x 16mm Hex Socket Countersunk Screw Black, Self-Colour Steel

RS Stock No.: 281-445



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**

RS PRO hexagon socket countersunk screws are an excellent choice when you need a fastener to sit flush or below the surface of your material. These popular metric thread countersunk screws are produced in 10.9 grade steel and are designed for light duty applications where space is limited. These fasteners have a black finish which ensures an attractive, quality appearance and finish wherever they are used.

#### **General Specifications**

Thread Size	M4
Head Shape	Hex Socket Countersunk
Material	Steel
Finish	Furnace Black
Thread Type	Metric
Grade	10.9
Applications	Woodworking, Domestic applications, Fasteners and fixings, Machine tooling and repair, Security guarding, Panel Building

### **Mechanical Specifications**

Length	16mm
Thread Pitch	0.7mm
Head Diameter Range	7.64mm to 8.96mm
Head Height Range	2.3mm to 2.48mm
Key Size Nominal Range	2.5mm to 2.60mm
Key Engagement	1.56mm
Thread Tolerance	6g



### **Approvals**

Compliance/Certifications	RoHS Certificate Of Compliance	,DIN7991,	ISO10642
•	, ANSI B18	,	









Please view our full range listing below for all Steel Black Self-Colour, Hexagon Countersunk Socket Screws:

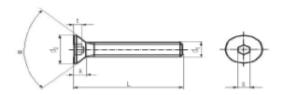
Head Shape	Material	Thread Size	Length	RS Part No.
Hex Socket Countersunk	Steel	M3	6 mm	281372
Hex Socket Countersunk	Steel	M3	8 mm	281388
Hex Socket Countersunk	Steel	M3	10 mm	281394
Hex Socket Countersunk	Steel	M3	12 mm	281401
Hex Socket Countersunk	Steel	M3	16 mm	292423
Hex Socket Countersunk	Steel	M3	20 mm	292439
Hex Socket Countersunk	Steel	M4	8 mm	281417
Hex Socket Countersunk	Steel	M4	10 mm	281423
Hex Socket Countersunk	Steel	M4	12 mm	281439
Hex Socket Countersunk	Steel	M4	16 mm	281445
Hex Socket Countersunk	Steel	M4	20 mm	292445
Hex Socket Countersunk	Steel	M4	25 mm	292451
Hex Socket Countersunk	Steel	M5	10 mm	281451
Hex Socket Countersunk	Steel	M5	12 mm	281467
Hex Socket Countersunk	Steel	M5	16 mm	281473
Hex Socket Countersunk	Steel	M5	20 mm	281489
Hex Socket Countersunk	Steel	M5	25 mm	292467
Hex Socket Countersunk	Steel	M5	30 mm	292473
Hex Socket Countersunk	Steel	M6	10 mm	281495
Hex Socket Countersunk	Steel	M6	16 mm	281502
Hex Socket Countersunk	Steel	M6	20 mm	281518
Hex Socket Countersunk	Steel	M6	25 mm	281524
Hex Socket Countersunk	Steel	M6	30 mm	292489
Hex Socket Countersunk	Steel	M6	35 mm	292495
Hex Socket Countersunk	Steel	M6	40 mm	8229142
Hex Socket Countersunk	Steel	M6	50 mm	8229145

# **Socket Screws**



Hex Socket Countersunk	Steel	M8	16 mm	281546
Hex Socket Countersunk	Steel	M8	20 mm	281552
Hex Socket Countersunk	Steel	M8	25 mm	281568
Hex Socket Countersunk	Steel	M8	30 mm	292502
Hex Socket Countersunk	Steel	M8	35 mm	292518
Hex Socket Countersunk	Steel	M8	40 mm	8229149
Hex Socket Countersunk	Steel	M8	50 mm	8229158
Hex Socket Countersunk	Steel	M8	75 mm	8229151

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



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

Thread Size 01	1	(M2)	(M2.5)	M3	M4	Mb	M6	MB	MIIU	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°
	For Lengths s125mm	10	11	12	14	16	18	22	26	30	34	38	42	46	50	54
DIN 7551 Thread Length Formula	For Lengths >125mms200mm						24	28	32	36	40	44	48	52	56	60
	For Lengths >200 mm								45	49	53	57	61	65	69	73
	ISO 10642 & ANS	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.										italia.				
DIN 7991	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
Head Dla. d2	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	min.			5.54	7.53	9.43	11.34	15.24	19.22	23.12	26.52	29.01		36.05		
Head Dia. d2	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	min.			5.35	7.80	9.75	11,70	15.65	19,50	23.40	26.18	23.76		34.60		
Head Dla. D2	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 B											tandard fo			K to exac	ny 30° iii
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 10	642 & A	NSI B18.	3.5M show	Head He	ight k as	a refere	ince poli	nt only	Refer to t	full ISO or	ANSI stan	dard for	more det	alls.	
			For Di	N 7991 / IS	O 10642	ANSI B1	8.3.5M,	the over	rall lengt	th of the s	crew Inci	udes the h	ead.			
D. 11. 2004	Nominal Size	1.3	1.5	2	2.5	3	4	5	6	8	10	10	12	12	14	14
DIN 7591 Key Size 8	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
ney age o	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
	Nominal Size			2	2.5	3	4	5	6	8	10	10		12		
ISO 10642 Key Size a	min.			2.02	2.52	3.02	4,020	5.02	6.02	8.025	10.025	10.025		12.032		
noy size s	max.			2.06	2.58	3.08	4.095	5.14	6.14	8.175	10.175	10.175		12.212		
	Nominal Size			2	2.5	3	4	5	6	8	10	10		12		
ANSI B18.3.5M Key Size s	min.			2.020	2.52	3.020	4.020	5.020	6.020	8.025	10.025	10.025		12.032		
ney size s	max.			2.045	2.56	3.071	4.084	5.084	6.095	8,115	10.115	10,115		12.142		
DIN 7351 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		

## **Socket Screws**



Length Tolerance	DIN 7991	N 7991 / ISO 10642 ANSI B18.3.5M		Length Tolerance	DIN 799 106		ANSI E	18.3.SM	
Nominal Length	min	max	min	max	Nominal Length	min	max	min	max
(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

	DIN 7	ANSI B18.3.5M	
Material	Steel	Stainless Steel	Steel
Property Class	10.9	A2 8.A4	12.9
Finish	Furnace Black	Plain	Furnace Black
Thread Tolerance	6g	6g	4g6g

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.

# **Socket Screws**

