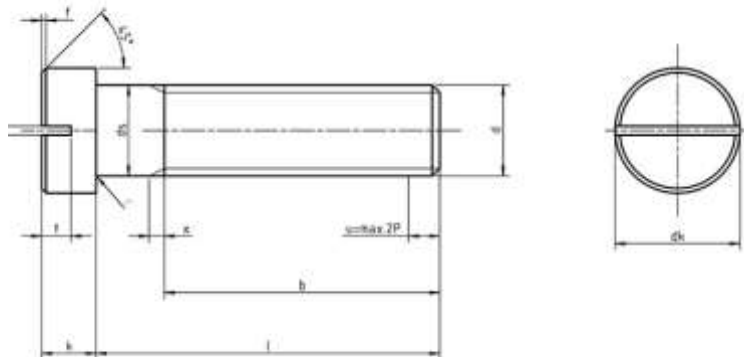


Metric DIN 920 Slotted Pan Head Screws with Small Head

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Dimensions of Metric DIN 920 slotted pan head screws with small head

Thread d		M1	M1.2	M1.4	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10
P		0.3	0.25	0.3	0.35	0.4	0.45	0.5	0.7	0.8	1	1.3	1.5
b	+2P	full	full	full	5	6	7.5	9	12	15	18	24	30
	0												
dk	nominal = max.	1.6	1.8	2	2.3	2.8	3.5	4	5.5	6.5	8	10	13
	min.	1.5	1.66	1.86	2.16	2.7	3.32	3.8	5.3	6.3	7.8	9.8	12.7
ds	nominal = max.	1	1.2	1.4	1.6	2	2.5	3	4	5	6	8	10
	min.	0.9	1.06	1.26	1.46	1.9	2.36	2.9	3.8	4.8	5.8	7.8	9.78
f	approx.	0.2	0.2	0.25	0.25	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.1
k	nominal	0.7	0.8	0.9	1	1.2	1.5	1.8	2.4	2.7	3.1	3.8	4.6
	max.	0.8	0.92	1.02	1.12	1.3	1.62	1.9	2.5	2.8	3.3	4	4.75
	min.	0.6	0.68	0.78	0.88	1.1	1.38	1.7	2.3	2.6	3	3.7	4.45
n	nominal	0.2	0.25	0.25	0.3	0.3	0.4	0.5	0.6	0.8	1	1.2	1.6
	min.	0.3	0.31	0.31	0.36	0.4	0.46	0.6	0.7	0.9	1.1	1.3	1.66
	max.	0.4	0.45	0.45	0.5	0.5	0.6	0.7	0.8	1	1.2	1.5	1.91
r	max.	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4
t	min.	0.4	0.4	0.45	0.5	0.6	0.75	0.9	1.2	1.3	1.5	1.9	2.3
	max.	0.5	0.55	0.6	0.7	0.8	0.95	1.2	1.5	1.6	1.9	2.4	2.8

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Metric DIN 920 slotted pan head screws with small head have pan head (cheese head) screws with a slightly lower profile and significantly smaller diameter head than a standard pan /cheese head and would typically be used in applications where space restrictions exist. Aspen Fasteners offers one of the most complete ranges of metric screws and other inch and metric industrial fasteners for immediate delivery from stock. The following sizes of DIN 920 slotted pan head screws with small head are available for immediate shipping from stock: Diameters ranging from M2 to M8 with lengths up to 25mm in stainless steel A2. View parts by clicking on the following link: [DIN 920 slotted pan head screws with small head](#)

DIN (**D**eutsches **I**nstitut für **N**ormung - German Institute for Standardization) standards are issued for a variety of components including industrial fasteners as Metric DIN 920 slotted pan head screws with small head. The DIN standards remain common in Germany, Europe and globally even though the transition to ISO standards is taking place. DIN standards continue to be used for parts which do not have ISO equivalents or for which there is no need for standardization.

1) Mechanical properties of stainless steel for metric DIN 920 slotted pan head screws with small head

Stainless steels can be divided into three groups of steel - austenitic, ferritic and martensitic. Austenitic steel is by far the most common type (>90% of commercial fasteners). The steel groups and strength classes are designated by a four-digit sequence of letters and numbers (eg A2-70) as shown in the following table. DIN EN ISO 3506 governs screws and nuts made from stainless steel.

Steel group	Steel grade	Strength class	Screws, Nuts and Bolts			
			Tensile strength N/mm ²	Tensile strength PSI	Dia range	Nut Load N/mm ²
Austenitic	A2 and A4	50	500	70,000	<=M39	500
		70	700	100,000	<=M20	700
		80	800	118,000	<=M20	800

The tensile stress is calculated with reference to the tensile stress area (see DIN EN ISO 3506-1979). Nuts to be paired with same grade of stainless steel screws

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Steel group	Property Strength class	Made From	Characteristics
Austenitic	50	A1, A2	Soft; cold worked, turned and soft pressed fasteners
	70	A2, A4	Cold worked, normal strength formed fasteners
	80	A2, A4	Extreme cold worked, high strength, special applications

2) Chemical composition of stainless steel metric DIN 920 slotted pan head screws with small head

Grade	USA Grade	Material designation	Material no.	C %	Si ≤ %	Mn ≤ %	Cr %	Mo %	Ni %
A 2	304	X 5Cr Ni 1810	1.4301	≤ 0.07	1.0	2.0	17.5 to 19.5	-	8.0 to 10.5
		X 2 Cr Ni 1811	1.4306	≤ 0.03	1.0	2.0	18.0 to 20.0	-	10 to 12.0
		X 8 Cr Ni 19/10	1.4303	≤ 0.07	1.0	2.0	17.0 to 19.0	-	11.0 to 13.0
A 4	316	X 5 Cr Ni Mo 1712	1.4401	≤ 0.07	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10.0 to 13.0
		X 2 Cr Ni Mo 1712	1.4404	≤ 0.03	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10 to 13

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3) Chemical composition of steel metric DIN 920 slotted pan head screws with small head

PROPERTY CLASS	MATERIAL AND TREATMENT	CHEMICAL COMPOSITION LIMITS %				TEMPERING TEMP °C MIN.
		C		P	S	
		min.	max.	max.	max.	
4.6, 4.8, 5.8, 6.8	Low or medium carbon steel	-	0.55	0.05	0.06	-
8.8	Medium carbon steel quenched, tempered	0.25	0.55	0.04	0.05	425
9.8	Medium carbon steel quenched, tempered	0.25	0.55	0.04	0.05	425
10.9	Medium carbon steel additives e.g. boron, Mn, Cr or Alloy steel - quenched, tempered	0.20	0.55	0.04	0.05	425
12.9	Alloy steel - quenched, tempered	0.20	0.50	0.035	0.035	380

4) Mechanical properties of steel for metric DIN 920 slotted pan head screws with small head

MECHANICAL PROPERTY		PROPERTY CLASS								
		4.8	5.6	5.8	6.8	8.8		9.8	10.9	12.9
						Up to M 16	Over M 16			
Tensile Strength (Rm, N/mm ²)	nom.	400	500		600	800		900	1000	1200
	min.	420	500	520	600	800	830	900	1040	1220
Vickers Hardness	min.	130	155	160	190	250	255	290	320	385
	max.	250				320	336	360	380	435
Brinell Hardness	min.	124	147	152	181	319	242	266	295	353
	max.	238				385	319	342	363	412
Rockwell Hardness	min. HR	71	79	82	89	-				
	HRC	-	-	-	-	20	23	28	32	39
	HR	95			99	-				
	max. HRC	-	-	-	-	32	34	37	39	44
Yield Stress Rel. N/mm ²	nom.	320	300	400	480	-				
	min.	340	300	420	480	-				
Stress at permanent set limit N/mm ²	nom.	-				640		720	900	1080
	min.	-				640	660	720	940	1100

Disclaimer

Dimensional data and technical information for Metric DIN 920 slotted pan head screws with small head was obtained from publicly available sources and not acquired through standards agencies. It has been completed and compiled for reference purposes only; where discrepancies are found they are subject to change without notice. Aspen Fasteners makes no warranties or representations regarding the accuracy and validity of the compiled information and data. Contact the relevant standards authorities for accurate and detailed information.

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