DIN547-86 (1728x2293x2 tiff)

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<u>. </u>	Round	nuts w	/ith dr	illed h	ioles ir	n one	face			<u>IN</u> 47
weiloc	hmuttern						Superse	edes Nov	ember 19	70 editio
n keepi as bee	ng with current practice in st in used throughout as the c	andards p lecimal m	oublished arker.	by the int	ernational	Organiza	tion for Sti	andardiza	tion (ISO)	,a com
			Din	nensions	in mm					
Round r lesigne ype fac	ope and field of appli nuts with drilled holes in one d to be used for various pur ce wrench as specified in C ig forces or a specific resis	e face are poses,as NN 3116 a	for instan Ind are in	ce in elec tended to	trical engi be used	neerino T	hev can h	e tinhten/	ad by maa	neofan
2 Dir	mensions									
		1 1		∇						
		1200 ¥ge	ď	\mathbf{O}					up to M3 exceedin o M10	
	Thread size d	M 2	5 M 2,5	M 3	(M 3,5)	,		for sizes	exceedin	
P 1)		0,4	0.45	0,5	0,6	0,7	= <u> -0,3</u> <u>M 5</u> 0,8	for sizes M3 up to	exceedin o M 10	9
P 1) d _z		0,4 2	0.45 2,5	0,5 3	0,6 3,5	0,7 4	= <u>-0,3</u> <u>M 5</u> 0,8 5	for sizes M3 up to M6 1 6	exceedin 0 M 10 M 8 1,25 8	g M 10 1,5 10
	min. max.	0,4 2 2,3	0,45 2,5 2,9	0,5 3 3,5	0,6 3,5 4	0,7 4 4,6	= <u> -0,3</u> M 5 0,8 5 5,75	for sizes M 3 up to M 6 1 6 6,75	exceedin o M 10 M 8 1,25 8 8,75	g M 10 1,5 10 10,8
		0,4 2 2,3 1	0.45 2,5 2,9 1.2	0,5 3 3,5 1,5	0,6 3,5 4 1,5	0,7 4 4,6 1,5	= <u>-</u> -0,3 <u>M 5</u> 0,8 <u>5</u> 5,75 2	for sizes M 3 up to M 6 1 6 6,75 2,5	exceedin o M 10 M 8 1,25 8 8,75 3	9 M 10 1,5 10 10,8 3,5
d _a d _h	min. max. min. = nominal size	0,4 2 2,3	0,45 2,5 2,9	0,5 3 3,5	0,6 3,5 4	0,7 4 4,6	= -0,3 M 5 0,8 5 5,75 2 2,14	for sizes M 3 up to 1 6 6,75 2,5 2,64	exceedin o M 10 M 8 1,25 8 8,75 3 3,14	9 M 10 1,5 10 10,8 3,5 3,68
da	min. max. min. = nominal size max.	0,4 2 2,3 1 1,14	0.45 2,5 2,9 1.2 1,34	0,5 3 3,5 1,5 1,64	0,6 3.5 4 1,5 1,64	0,7 4 4,6 1,5 1,64	= <u>-</u> -0,3 <u>M 5</u> 0,8 <u>5</u> 5,75 2	for sizes M 3 up to M 6 1 6 6,75 2,5	exceedin o M 10 M 8 1,25 8 8,75 3	9 M 10 1,5 10 10,8 3,5
d _a d _h	min. max. min. = nominal size max. max. = nominal size	0,4 2 2,3 1 1,14 5,5	0,45 2,5 2,9 1,2 1,34 7	0,5 3 3,5 1,5 1,64 8	0,6 3,5 4 1,5 1,64 9	0,7 4 4,6 1,5 1,64 10	= <u>1</u> -03 M 5 0,8 5 5,75 2 2,14 12	for sizes M 3 up to 1 6 6,75 2,5 2,64 14	exceedin M B 1,25 8 8,75 3 3,14 18	9 M 10 1,5 10 10,8 3,5 3,68 22
d _a d _h	min. max. min. = nominal size max. max. = nominal size min.	0,4 2 2,3 1 1,14 5,5 5,2	0.45 2,5 2,9 1,2 1,34 7 6,64	0,5 3 3,5 1,5 1,64 8 7,64	0,6 3,5 4 1,5 1,64 9 8,64	0,7 4 4,6 1,5 1,64 10 9,64	= <u>1</u> -03 M 5 0,8 5 5,75 2 2,14 12 11,57	for sizes M 3 up to 1 6 6,75 2,5 2,64 14 13,57	exceedin M 10 M 125 8 8,75 3 3,14 18 17,57	9 M 10 1,5 10 10,8 3,5 3,68 22 21,48
d _a d _h d _k	min. max. min. = nominal size max. max. = nominal size min. Nominal size max. min.	0.4 2 2.3 1 1,14 5.5 5.2 4 4,15 3,85	0.45 2,5 2,9 1.2 1,34 7 6,64 5 5,15 4,85	0,5 3 3,5 1,5 1,64 8 7,64 5,5	0,6 3,5 4 1,5 1,64 9 8,64 6	0,7 4 4,6 1,5 1,64 10 9,64 7	M 5 0,8 5 5,75 2 2,14 12 11,57 8	for sizes M 3 up to 1 6 6,75 2,5 2,64 14 13,57 10	exceedin M 10 M 10 1,25 8 8,75 3 3,14 18 17,57 13	9 M 10 1.5 10 10,8 3,5 3,68 22 21,48 15
d _a d _h d _k	min. max. max. max. max. = nominal size max. = nominal size min. Nominal size max.	0,4 2 2,3 1 1,14 5,5 5,2 4 4,15 3,85 2	0,45 2,5 2,9 1,2 1,34 7 6,64 5 5,15 4,85 2,2	0,5 3 3,5 1,5 1,64 8 7,64 5,5 5,65	0,6 3.5 4 1,5 1,64 9 8,64 6 6 6,15	0,7 4 4,6 1,5 1,64 10 9,64 7 7,18	M 5 0,8 5 5,75 2 2,14 12 11,57 8 8,18	M 6 1 6 6,75 2,5 2,64 14 13,57 10 10,18	exceedin M 10 1,25 8 8,75 3,14 18 17,57 13 13,18	9 M 10 1.5 10 10.8 3.5 3.68 22 21.48 15 15,18
d _a d _h d _k e	min. max. min. = nominal size max. mex. = nominal size min. Nominal size max. min. max. = nominal size man.	0.4 2 2.3 1 1,14 5.5 5.2 4 4,15 3,85	0.45 2,5 2,9 1.2 1,34 7 6,64 5 5,15 4,85	0,5 3 3,5 1,5 1,64 8 7,64 5,5 5,65 5,35 2,5 2,5 2,25	0,6 3.5 4 1,5 1,64 9 8,64 6 6,15 5,85	0,7 4 4,6 1,5 1,64 10 9,64 7 7,18 6,82	M 5 0,8 5 5,75 2 2,14 12 11,57 8 8,18 7,82	M 6 1 6 6,75 2,5 2,5 14 13,57 10 10,18 9,82	exceedin M 10 M 25 8 8,75 3 3,14 18 17,57 13 13,18 12,82	9 M 10 1.5 10 10.8 3.5 3.68 22 21.48 15 15.18 14.82
d _a d _h d _k e	min. max. min. = nominal size max. max. = nominal size min. Nominal size min. Nominal size min. max. = nominal size min. max. = nominal size min. min. min. min. min. min. min.	0,4 2 2,3 1 1,14 5,5 5,2 4 4,15 3,85 2	0,45 2,5 2,9 1,2 1,34 7 6,64 5 5,15 4,85 2,2 1,95	0,5 3 3,5 1,5 1,64 8 7,64 5,5 5,65 5,35 2,5 2,25 2,25 1,3	0,6 3.5 4 1,5 1,64 9 8,64 6 6,15 5,85 3 2,75 1,8	0,7 4 4,6 1,5 1,64 10 9,64 7 7,18 6,82 3,5 3,2 1,8	M 5 0,8 5 5,75 2 2,14 12 11,57 8 8,18 7,82 4,2	M 6 1 6 6,75 2,5 2,64 14 13,57 10 10,18 9,82 5	exceedin M 10 M 25 8 8,75 3 3,14 18 17,57 13 13,18 12,82 6,5	9 M 10 1,5 10 10,8 3,5 3,68 22 21,48 15 15,18 14,82 8
d _a d _h d _k e m t Mass	min. max. min. = nominal size max. mex. = nominal size min. Nominal size max. min. max. = nominal size man.	0,4 2 2,3 1 1,14 5,5 5,2 4 4,15 3,85 2 1,75	0,45 2,5 2,9 1,2 1,34 7 6,64 5 5,15 4,85 2,2 1,95	0,5 3 3,5 1,5 1,64 8 7,64 5,5 5,65 5,35 2,5 2,5 2,25	0,6 3.5 4 1,5 1,64 9 8,64 6 6,15 5,85 3 2,75	0,7 4 4,6 1,5 1,64 10 9,64 7 7,18 6,82 3,5 3,2	M 5 0,8 5 5,75 2 2,14 12 11,57 8 8,18 7,82 4,2 3,9	M 6 1 6 6,75 2,5 2,64 14 13,57 10 10,18 9,82 5 4,7	exceedin M 10 M 25 8 8,75 3 3,14 18 17,57 13 13,18 12,82 6,5 6,14	9 M 10 1,5 10 10,8 3,5 3,68 22 21,48 15,18 14,82 8 7,64

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3 Technical delivery conditions

Material		Steel	Stainless steel	Non-ferrous metal		
General requireme	nts	As specified in DIN 267 Part 1.				
Thread	Tolerance class	6H DIN 13 Part 15				
	Standard					
Mechanical properties 3)	Property class (material)	St = steel 1)	A1-50 C4-50	CuZn = copper-zinc alloy ²)		
	Standard	DIN 1651	DIN 267 Part 11	DIN 267 Part 18		
Permissible dimensional deviations and	Product grade	A ⁴)				
deviations of form	Standard	ISO 4759 Part 1				
		As processed.	Bright.	Bright.		
Surface finish		Din 201 Fail 3	ply with regard to permissil shall apply with regard to apply with regard to phos	a algotrapieties		
Acceptance inspec	tion	DIN 267 Part 5 shall apply with regard to acceptance inspection ⁵).				

cases where property class 5 is given in existing documentation,

2) CuZn = CU2 or CU3 (as specified in DIN 267 Part 18), at the manufacturer's discretion.

3) Other property classes or materials shall be subject to agreement.

 A₂ 25 shall apply for the surface roughness, R₂ 16 for thread flanks of sizes not exceeding M 5, R₂ 40 for thread flanks of sizes exceeding M 5.
AOI (constraint)

5) AQL (acceptable quality level) 1 shall apply for major characteristics and AQL 1,5 for minor characteristics, thread size d, hole diameter d_h and the distance from the hole, e, being regarded as major characteristics, external diameter d_k, height of the nut, m, and depth of the hole, t, as minor characteristics.

4 Designation

Designation of an M5 round nut with drilled hole in one face, made of steel (St):

Round nut DIN 547-M5-St

The DIN 4000-2-7 tabular layout of article characteristics shall apply for round nuts with drilled holes in one face.

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Standards referred to

Dirit	10 Fall 15	ISO metric screw threads; fundamental deviations and tolerances for screw threads of 1 mm and larger
DIN	267 Part 1	Fasteners; technical delivery conditions; general requirements
DIN	267 Part 5	Fasteners; technical delivery conditions; acceptance inspection (modified version of ISO 3269, 1984 edition)
DIN	267 Part 11	Fasteners; technical delivery conditions (with additions to ISO 3506); corrosion-resistant stainless steel fasteners
DIN	267 Part 18	Fasteners; technical delivery conditions; components made of non-ferrous metals
DIN	267 Part 20	Fasteners; technical delivery conditions; surface discontinuities on nuts
DIN	1651	Free cutting steels; technical delivery conditions
DIN	3116	Pin type face wrenches
DIN	4000 Part 2	Tabular layouts of article characteristics for bolts, studs and nuts
DIN	50942	Phosphating of metals; principles, symbols and test methods
ISO	4759 Part 1	Tolerances for fasteners; bolts, screws and nuts with thread diameters between 1.6 (inclusive) and 150 mm (inclusive) and product grades A, B and C

Previous editions

08.22, 11.22, 07.39x, 04.49, 02.54x, 11.70.

Amendments

The following amendments have been made in comparison with the November 1970 edition.

- a) The content of the standard has been editorially revised and aligned with the basic standards concerned.
- b) The technical delivery conditions have been amended.
- c) The previous design m as specified in DIN 267 Part 2, April 1968 edition, has been replaced by product grade A as specified in ISO 4759 Part 1.
- d) Limiting dimensions calculated from the permissible tolerances have been included.
- e) Property class 5 as specified in DIN 267 Part 4 has been replaced by the indication of "St = steel".
- f) Sizes M 1.7, M 2.3 and M 2.6 have been deleted. However, to cater for documents already in existence and spare parts requirements, they can still be ordered in accordance with the November 1970 edition of the present standard.

International Patent Classification

F16 B 37/00