November 1986

UDC 621.882.342

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Knurled nuts :

DIN 6303

Rändelmutter

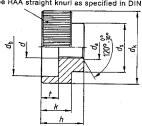
Supersedes January 1971 edition.

in keeping with current practice in standards published by the international Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

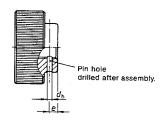
1 Dimensions

Dimensions in mm

Type A, without pin hole Type RAA straight knurl as specified in DIN 82







Thread size d		M 5	M 6	M8 .	M 10
∻ P¹)		0,8	1 .	1,25	1,5
d _a	min.	5	6	8	10
	max.	5,75	6,75	8,75	10,8
d_{b}	min. = nominal size	15	18	24	- 30
	max.	15,43	18,43	24,52	30,52
dh	Nominal size ²)	1,5	1,5	. 2	3
	Nominal size	20	24	30	36
d_k	max.	20,24	24,42	30,42	36,5
	min.	19,58	23,58	29,58	35,5
d_s	max. = nominal size	14	16	20	28
	min.	13,57	15,57	- 19,48	27,48
е		2,5	2,5	3	4
h	max. = nominal size	12	14	17	20
	min.	11,57	13,57	16,57	19,48
k	max. = nominal size	8	10	12	14
	min.	7,64	9,64	11,57	13,57
t	max. = nominal size	5	6	7	8
	max.	5,3	6,3	7,36	8,36
ssocia arallel		DIN 7 - 1,5 m6 × 14	DIN 7 - 1,5 m6 × 16	DIN 7 - 2 m6 × 20	DIN 7 - 3 m6 × 2

P = pitch of thread (coarse pitch thread).

2) After drilling, the finished drilled hole shall lie within tolerance zone H7.

Continued on pages 2 and 3

³⁾ Other equivalent fasteners, such as grooved pins and spring-type straight pins may equally be used instead of parallet pins. Alternatively, set screws may be permanently connected with knurled nuts by welding or any other appropriate assembly method.

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2 Technical delivery conditions

Material General requirements		Steel	Stainless steel	Non-ferrous metal	
		As specified in DIN 267 Part 1.			
Thread	Tolerance class	6H			
	Standard	DIN 13 Part 15			
Mechanical properties 3)	Property class (material)	St = steel 1)	A1-50 C4-50	CuZn ⇒ copper-zinc	
	Standard	DIN 1651	DIN 267 Part 11	DIN 267 Part 18	
Permissible dimensional deviations and	Product grade	A			
deviations of form	Standard	ISO 4759 Part 1			
		As processed.	Bright.	Bright.	
Surface finish 4)		DIN 267 Part 20 shall apply with regard to permissible surface discontinuities. DIN 267 Part 9 shall apply with regard to electroplating. DIN 50942 shall apply with regard to phosphating of metals.			
Acceptance inspection		DIN 267 Part 5 shall apply with regard to acceptance inspection ⁵).			

¹⁾ St = 9SMnPb28K as specified in DIN 1651 or an equivalent steel in terms of strength. This material shall also be used in cases where property class 5 is given in existing documentation.

3 Designation

Designation of an M5 type A knurled nut made of steel (St):

Knurled nut DIN 6303-AM5-St

The DIN 4000 - 2 - 7 tabular layout of article characteristics shall apply to knurled nuts conforming to this standard.

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.

⁴⁾ R_z 25 shall apply for the surface roughness in general, R_z 40 for the surface of thread flanks.

⁵⁾ AQL (acceptable quality level) 1 shall apply for major characteristics and AQL 1,5 for minor characteristics, thread size d And tacceptaine quality levely contain apply for inagon characteristics, diameter of the head, d_k , collar diameter, d_s , and heights

DIN6303-86 (1728x2274x2 tiff) [3]

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	Standards referred to						
	DIN	7	Parallel pins				
	DIN	13 Part 15	ISO metric screw threads; fundamental deviations and tolerances for screw threads of 1 mm diameter and larger				
	DIN	82	Straight knurls				
	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 9	Fasteners; technical delivery conditions; components with electroplated coatings				
	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	4000 Part 2	Tabular layouts of article characteristics for bolts, screws and nuts				
DIN 50942		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

DIN 6303: 12.31, 05.40, 01.71.

Amendments

The following amendments have been made in comparison with the January 1971 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.

International Patent Classification

F16B 37/00