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FOREIGN TECHNOLOGY DIV WRIGHT-PATTERSON AFB OHIO
HEXAGON SLOTTED AND CASTLE NUTS (HIGH PRECISION) DIMENSIONS. (U)
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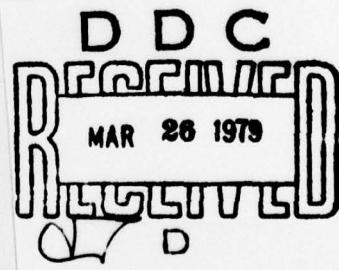
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FOREIGN TECHNOLOGY DIVISION



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HEXAGON SLOTTED AND CASTLE NUTS (HIGH PRECISION) DIMENSIONS



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EDITED TRANSLATION

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13 September 1978

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HEXAGON SLOTTED AND CASTLE NUTS (HIGH PRECISION)
DIMENSIONS

English pages: 4

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Country of Origin: USSR

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WP.AFB, OHIO.

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Date 13 Sept 1978

U. S. BOARD ON GEOGRAPHIC NAMES TRANSLITERATION SYSTEM

Block	Italic	Transliteration	Block	Italic	Transliteration
А а	А а	A, a	Р р	Р р	R, r
Б б	Б б	B, b	С с	С с	S, s
В в	В в	V, v	Т т	Т т	T, t
Г г	Г г	G, g	Ү ү	Ү ү	U, u
Д д	Д д	D, d	Ф ф	Ф ф	F, f
Е е	Е е	Ye, ye; E, e*	Х х	Х х	Kh, kh
Ж ж	Ж ж	Zh, zh	Ц ц	Ц ц	Ts, ts
З з	З з	Z, z	Ч ч	Ч ч	Ch, ch
И и	И и	I, i	Ш ш	Ш ш	Sh, sh
Й й	Й й	Y, y	Щ щ	Щ щ	Shch, shch
К к	К к	K, k	Ь ъ	Ь ъ	"
Л л	Л л	L, l	Ы ы	Ы ы	Y, y
М м	М м	M, m	Ӯ Ӯ	Ӯ Ӯ	'
Н н	Н н	N, n	Э э	Э э	E, e
О о	О о	O, o	Ӱ Ӱ	Ӱ Ӱ	Yu, yu
П п	П п	P, p	Я я	Я я	Ya, ya

*ye initially, after vowels, and after ъ, ѕ; e elsewhere.
When written as ё in Russian, transliterate as yё or ё.

RUSSIAN AND ENGLISH TRIGONOMETRIC FUNCTIONS

Russian	English	Russian	English	Russian	English
sin	sin	sh	sinh	arc sh	sinh ⁻¹
cos	cos	ch	cosh	arc ch	cosh ⁻¹
tg	tan	th	tanh	arc th	tanh ⁻¹
ctg	cot	cth	coth	arc cth	coth ⁻¹
sec	sec	sch	sech	arc sch	sech ⁻¹
cosec	csc	csch	csch	arc csch	csch ⁻¹

Russian	English
rot	curl
lg	log

GOST
5932-62*

instead of
GOST 5932-51
and GOST 5934-51

HEXAGON SLOTTED AND CASTLE NUTS (HIGH PRECISION)

DIMENSIONS

Confirmed by the Committee of Standards, Measures and Measuring Instruments attached to the Council of Ministers of the USSR, March 27, 1962. The period of the introduction is established from January 1, 1964.

Non-observance of the standard is punishable by law

- Dimensions of the nuts must correspond to those indicated on the drawing and in the table of the present standard.

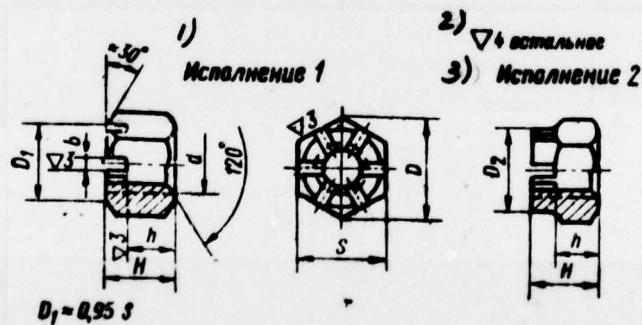


Figure: KEY: 1) Design 1; 2) Remaining; 3) Design 2.

Examples of symbols of the nut with diameter of the thread d = 12 mm, grade of strength 5, design 1, with a thread pitch of grade of fit 3, without coating:

Nut M12.5 GOST 5932-62

*Republication (Dec. 1971) with change No. 2 accepted in Aug. 1971.

The same in design 2, with a small thread pitch of grade of fit of 2a, with coating 01, with a thickness of 9 μm :

Nut 2M12X1.25.2a.5.019 GOST 5932-62

(Modified editing - "Information index of standards," No. 8, 1971).

2. Threads - in compliance with GOST 9150-59.

3. Tolerances of threads - in compliance with GOST 9253-59*: for threads with large pitches of the grade of fit 2 or 3, with small pitches - 2a or 3.

4. In the selection of pitches of threads, the large pitches should be preferred to the small ones, and the grade of fit of the thread 3 to grades of fit 2 and 2a.

5. Specifications - in compliance with GOST 1759-70.

(Modified editing - "Information index of standards," No. 8, 1971.

*GOST 1759-62 has been introduced since January 1, 1974.

Replacement

GOST 1759-70 is introduced instead of GOST 1759-62.

1)
мм

2) Номинальные диаметры резьбы d	4	5	6	8	10	12	(14)	16	(18)	20	(22)	24	(27)	30	36	42	48	
3) Шаг резьбы	4) Крупный	0,7	0,8	1	1,25	1,5	1,75	2	2	2,5	2,5	3	3	3,5	4	4,5	5	
	5) Мелкий	-	-	-	1	1,25	1,25	1,5	1,5	1,5	1,5	2	2	2	3	3	3	
6) Размер «под ключ» S	7) Номин.	7	8	10	14	17	19	22	24	27	30	32	36	41	46	55	75	
	8) Доп. откл.	-0,20	-0,24	-	-0,28	-	-	-	-	-0,34	-	-	-0,40	-	-	-	-	
9) Высота H	7) Номин.	5	6	7,5	9	11	14	16	19	20	22	25	26	28	32	38	41	50
	8) Доп. откл.	-0,48	-0,58	-	-0,70	-	-	-	-	-0,84	-	-	-1,00	-	-	-	-	
10) Диаметр описанной окружности D	7) Номин.	8,1	9,2	11,5	16,2	19,6	21,9	25,4	27,7	31,2	34,6	35,9	41,6	47,3	53,1	63,6	75,0	86,5
	8) Доп. откл.	-0,3	-0,4	-0,5	-0,7	-	-0,8	-	-0,9	-	-1,0	-1,1	-1,3	-1,4	-1,7	-1,8	-1,9	
11) Число прорезей														6				
12) Ширина прорези b	7) Номин.	1,2	1,4	2	2,5	2,8	4	5	6	6	8	10						
	8) Доп. откл.	+0,25	-0,08	-	-	-	-	+0,30	-0,10	-	-	-	+0,36	-0,10	-	-	-	
13) Расстояние от опорной поверхности до основания прорези и коронки h	7) Номин.	3,2	4	5	6	8	10	11	13	14	16	18	19	22	24	28	32	38
	8) Доп. откл.	-0,30	-	-0,36	-	-	-	-0,43	-	-	-	-	-0,52	-	-0,62	-	-	-
14) Диаметр коронки D_2	7) Номин.	-	-	-	-	17	20	22	25	28	30	34	36	42	50	58	66	
	8) Доп. откл.	-	-	-	-	-0,43	-	-0,52	-	-	-	-	-0,62	-	-0,74	-	-	-
15) Допускаемое смещение оси прорези	0,15	-	0,20	-	0,25	-	0,30	-	0,35	-	0,45	-	0,50	-	-	-	-	
16) Допускаемое смещение оси отверстия	0,25	-	0,30	-	0,40	-	0,50	-	0,60	-	0,80	-	0,70	-	-	-	-	
17) Размер шплинта (рекомендуемый) для гаек	в исполнении 1 1x12 1,2x12 1,8x12 2x20 2,5x20 3,5x32 4x36 4x40 5x45 5x50 6,3x60 6,3x70 8x80 8x90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	исполнение 2 - - - - - - 3,2x25 4x32 4x38 5x40 5x45 6,3x60 6,3x70 8x70 8x80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

18) Примечание. Размеры гаек, заключенные в скобки, по возможности не применять.

- KEY to Table: 1) mm; 2) Pitch of thread; 4) large; 5) small;
 6) Dimension "for wrench" S; 7) Rated; 8) Tolerances; 9) Height H; 10) Diameter of described circumference D; 11) Number of slots; 12) Width of slot b; 13) Distance from reference surface to base of slot and crown h; 14) Diameter of crown D_2 ; 15) Permissible shift in axis of slot; 16) Permissible shift in axis of hole; 17) Dimension of split pin (recommended) for the nuts;
 18) Note: As far as possible, do not use dimensions of the nuts included in parentheses.

SUPPLEMENT

Reference Table of Weight of Nuts (Design 1)

1) Номинальные диаметры резьбы <i>d</i> в мм	2) Масса 1000 шт. стальных гаек с крупным шагом резьбы в кг ~	1) Номинальные диаметры резьбы <i>d</i> в мм	2) Масса 1000 шт. стальных гаек с крупным шагом резьбы в кг ~
4	1,100	20	81,26
5	1,667	22	98,34
6	3,223	24	137,00
8	7,909	27	206,20
10	14,660	30	284,20
12	21,450	36	483,70
14	32,850	42	782,30
16	43,100	48	1215,00
18	59,180		

KEY: 1) Rated diameters of thread *d* in mm; 2) Weight of 1000 pieces of steel nuts with large thread pitch in kg ~.

Reference Table of Weight of Nuts (Design 2)

1) Номинальные диаметры резьбы <i>d</i> в мм	2) Масса 1000 шт. стальных гаек с крупным шагом резьбы в кг ~	1) Номинальные диаметры резьбы <i>d</i> в мм	2) Масса 1000 шт. стальных гаек с крупным шагом резьбы в кг ~
12	18,80	24	125,3
14	25,74	27	191,2
16	37,60	30	255,8
18	52,60	36	432,4
20	73,65	42	687,0
22	88,49	48	1070,0

KEY: 1) Rated diameters of thread *d* in mm; 2) Weight of 1000 pieces of steel nuts with large thread pitch in kg ~.

To determine the weight of the nuts from other materials, the values of the weight indicated in the table should be multiplied by the factors:

0.356 - for aluminum alloy;

1.080 - for brass.

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A210 DMAAC	2	E017 AF/RDXTR-W	1
B344 DIA/RDS-3C	9	E403 AFSC/INA	1
C043 USAMIIA	1	E404 AEDC	1
C509 BALLISTIC RES LABS	1	E408 AFWL	1
C510 AIR MOBILITY R&D LAB/F10	1	E410 ADTC	1
C513 PICATINNY ARSENAL	1	E413 ESD	2
C535 AVIATION SYS COMD	1	FTD	
C591 FSTC	5	CCN	1
C619 MIA REDSTONE	1	ASD/FTD/ NIIS	3
D008 NISC	1	NIA/PHS	1
H300 USAICE (USAREUR)	1	NIIS	2
P005 DOE	1		
P050 CIA/CRS/ADD/SD	1		
NAVORDSTA (50L)	1		
NASA/KSI	1		
AFIT/LD	1		