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ROUND NUTS - SPECIFICATIONS.(U)

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FOREIGN TECHNOLOGY DIVISION



ROUND NUTS - SPECIFICATIONS



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# EDITED TRANSLATION

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ROUND NUTS - SPECIFICATIONS

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U. S. BOARD ON GEOGRAPHIC NAMES TRANSLITERATION SYSTEM

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

\*ye initially, after vowels, and after ь, ь; e elsewhere.  
When written as ë in Russian, transliterate as yë or ë.

RUSSIAN AND ENGLISH TRIGONOMETRIC FUNCTIONS

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

Russian      English

rot      curl  
lg      log

ROUND NUTS - SPECIFICATIONS

State Standard (GOST #11873-66)

The present standard is known for round nuts with radially positioned holes, with holes at the end "for the wrench", and slotted.

1. Specifications.

1.1. The recommended brands of materials and nut coatings must correspond to those indicated in table 1 of GOST 1759-62.

1.2. Steel nuts with radially positioned holes and with holes at the end for the wrench should be heat treated. Hardness - HRC 36 - 42.

1.3. In steel slotted nuts only the slots should be heat treated. Hardness - not less than HRC 36.

1.4. According to the buyer, it is permitted to treat steel slotted nuts with volumetric heat treatment. Hardness - HRC 26-32.

1.5. According to the requirement of the buyer, steel nuts can come without heat treatment.

1.6. On the surface of the nuts, flaws, fine cracks, scabs, burrs, traces of rust, and dents are not permitted.  
notches,

1.7. Dents and burrs on the surface of the threads which prevent screwing on are not permitted. Scabs and chipping on the surface

of the threads are not permitted if they exceed the limits of the average diameter of the thread in depth and if the total length of the scabs and chipping does not exceed half of a convolution according to length.

1.8. According to the requirements of the buyer, the nuts must be demagnetized.

#### Testing Methods

2.1. For a control check by the user of compliance of production with the requirements of the present standard, the rules for selecting specimens and testing methods, which are given below, must be employed.

2.2. From each group presented to be turned over we will select from various places up to 10% of the nuts presented to be turned over for checking of external appearance and dimensions, but not less than 50 pieces.

2.3. From the nuts checked according to para. 2.2, we will select 2%, but not less than 3 pieces for checking hardness, and 3%, but not less than 5 pieces - for checking play.

2.4. With the acquisition of unsatisfactory test results, if only on one of the indicators, we will conduct repetitive tests on it on double the amount of samples taken from the same group of arti-

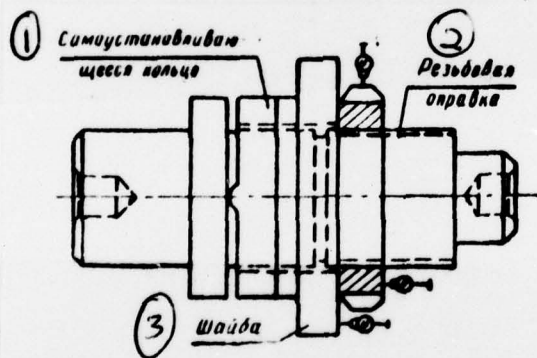
cles. Results of the repetitive tests are final.

2.5. A check of the nuts' dimensions is conducted by limit gages, templates, or universal measuring instruments.

2.6. Tests for hardness - according to GOST #9013-59.

2.7. A check of play of the ends and on the surface of the outer diameter is conducted by an indicator with the use of threading mandrel.

An arbitrary check on the fittings must be conducted (see diagram), in which regard the thread of the mandrel must be made with an accuracy accepted for accomplishment of the passing side of the working gages by which a check of the nuts' thread is conducted.



Key to figure: 1) self-adjusting ring; 2) screw mandrel; 3) washer

2.8. The quality of the material of the nuts is checked by the plant-manufacturer according to the material's contractor certificate, and by the plant-user - according to the documentation of

the plant-manufacturer. In questionable cases, the buyer is given the right to require checks on the quality of the material according to the corresponding standards.

#### Packing and Marking

3.1. The letter "P" must be marked on the increased-accuracy slotted nuts.

3.2. Nuts should be packed in wood boxes which will ensure safety and quality of the articles during transport.

3.3. Slotted nuts of increased accuracy must be wrapped in waterproof paper and packed in cardboard boxes or packs. Cardboard boxes and packs must be connected crosswise and packed in wood boxes.

3.4. The remaining requirements for packing and marking are given in GOST # 1471-54, pp. 12, 14, and 16-23.

1 МЕЖДУНАРОДНАЯ СИСТЕМА ЕДИНИЦ (СИ)

Наименование величины	Единица измерения	Сокращ. обозначение	Наименование величины	Единица измерения	Сокращ. обозначение
<b>5 ОСНОВНЫЕ ЕДИНИЦЫ</b>					
длина	метр	м	Работа, энергия, количество теплоты	джоуль (1 м) <sup>2</sup> :(1 с) <sup>2</sup>	дж
МАССА	килограмм	кг	Мощность	ватт (1 м) <sup>2</sup> :(1 с) <sup>3</sup>	вт
ВРЕМЯ	секунда	с	Количество электричества, электрический заряд	кулон (1 а) <sup>2</sup> :(1 с)	к
СИЛА ЭЛЕКТРИЧЕСКОГО ТОКА	ампер	а	Электрическое напряжение, разность электрических потенциалов	вольт (1 м) <sup>2</sup> :(1 а)	в
ТЕРМОДИНАМИЧЕСКАЯ ТЕМПЕРАТУРА	градус Кельвина	К	Электрическое сопротивление	ом (1 м) <sup>2</sup> :(1 а)	ом
СИЛА СВЕТА	свеча	св	Электрическая емкость	фарада (1 м) <sup>2</sup> :(1 а)	ф
<b>18 ДОПОЛНИТЕЛЬНЫЕ ЕДИНИЦЫ</b>					
Плоский угол	радиан	рад	Поток магнитной индукции	вебер (1 м) <sup>2</sup> :(1 а)	вб
Телесный угол	стерадиан	стерад	Индуктивность	генри (1 м) <sup>2</sup> :(1 а)	гн
<b>23 ПРОИЗВОДНЫЕ ЕДИНИЦЫ</b>					
Площадь	квадратный метр	м <sup>2</sup>	Теплоемкость системы	джоуль на градус	дж/град
Объем	кубический метр	м <sup>3</sup>	Теплопроводность	ватт на метр-градус	вт/м-град
Плотность (объемная масса)	килограмм на кубический метр	кг/м <sup>3</sup>	Световой поток	люмен (1 стер)	лм
Скорость	метр в секунду	м/с	Частота	герц (1 м) <sup>2</sup> :(1 м) <sup>2</sup>	гц
Угловая скорость	радиан в секунду	рад/с	Повращение	люкс (1 м) <sup>2</sup> :(1 м) <sup>2</sup>	лк
Сила	ньютон (1 кг) <sup>2</sup> :(1 с) <sup>2</sup>	н			
Давление	ньютон на квадратный метр	н/м <sup>2</sup>			

64 ПРИСТАВКИ ДЛЯ ОБРАЗОВАНИЯ НАИМЕНОВАНИЙ КРАТНЫХ И ДОЛНЫХ ЕДИНИЦ

Множитель, на который умножается единица	Приставка	Сокращ. обозначение	Множитель, на который умножается единица	Приставка	Сокращ. обозначение
1 000 000 000 000 = 10 <sup>12</sup>	тера	Т	0,1 = 10 <sup>-1</sup>	деци	д
1 000 000 000 = 10 <sup>9</sup>	гига	Г	0,01 = 10 <sup>-2</sup>	санти	с
1 000 000 = 10 <sup>6</sup>	мега	М	0,001 = 10 <sup>-3</sup>	милли	м
1 000 = 10 <sup>3</sup>	кило	к	0,000001 = 10 <sup>-6</sup>	микро	мк
100 = 10 <sup>2</sup>	гекто	г	0,00000001 = 10 <sup>-8</sup>	нано	н
10 = 10 <sup>1</sup>	дека	да	0,0000000001 = 10 <sup>-10</sup>	пико	п

Key to this table on next page.

Key: 1) International System of Units (SI). 2) name of value. 3) unit of measurement. 4) abbreviation. 5) basic units. 6) length. 7) weight. 8) time. 9) force of electrical current. 10) thermodynamic temperature. 11) light force. 12) meter. 13) kilogram. 14) second. 15) ampere. 16) Kelvin degree. 17) candle. 18) additional units. 19) planar angle. 20) solid angle. 21) radian. 22) steradian. 23) derived units. 24) area. 25) volume. 26) density (volumetric mass) 27) velocity. 28) angular velocity. 29) force. 30) pressure. 31) square meter. 32) cubic meter. 33)  $\text{kg/m}^3$ . 34) m/s. 35) radian per second. 36) Newton. 37) Newton per square meter. 38) work, energy and amount of heat. 39) power. 40) amount of electricity, electrical charge. 41) electrical voltage, difference in electrical potentials. 42) electrical resistance. 43) electrical capacitance. 44) flow of magnetic induction. 45) inductiveness. 46) heat capacity of the system. 47) heat conductivity. 48) light flow. 49) brightness. 50) intensity of illumination. 51) joule. 52) watt. 53) coulomb. 54) volt. 55) ohm. 56) farad. 57) weber. 58) henry. 59) joule/degree. 60) watt per meter-degree. 61) lumen. 62) nit. 63) lux. 64) prefixes for formation of the named multiple and fractional units. 65) factor by which we multiply the unit. 66) prefix. 67) tera. 68) giga. 69) mega. 70) kilo. 71) hecto. 72) deca. 73) deci. 74) centi. 75) milli. 76) micro. 77) nano. 78) pico.

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C509 BALLISTIC RES LABS	1	E408 AFWL	1
C510 AIR MOBILITY R&D LAB/FIO	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
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P005 DOE	1		
P050 CIA/CRS/ADD/SD	1		
NAVORDSTA (50L)	1		
NASA/KSI	1		
AFIT/LD	1		