**ГОСТ 24737-81 Основные нормы взаимозаменяемости. Резьба трапецеидальная однозаходная. Основные размеры**

ГОСТ 24737-81

Группа Г13

МЕЖГОСУДАРСТВЕННЫЙ СТАНДАРТ

Основные нормы взаимозаменяемости

РЕЗЬБА ТРАПЕЦЕИДАЛЬНАЯ ОДНОЗАХОДНАЯ

Основные размеры

Basic norms of interchangeability. Trapezoidal single-start screw thread.
Basic dimensions

Дата введения 1982-01-01

ВВЕДЕН В ДЕЙСТВИЕ постановлением Государственного комитета СССР по стандартам от 30 апреля 1981 г. N 2262

ВЗАМЕН ГОСТ 24737-73 (в части основных размеров)

ПЕРЕИЗДАНИЕ

1. Настоящий стандарт распространяется на трапецеидальную однозаходную резьбу с профилем по [ГОСТ 9484-81](http://docs.cntd.ru/document/1200012235), диаметрами и шагами по [ГОСТ 24738-81](http://docs.cntd.ru/document/1200012254) и устанавливает номинальные диаметры резьбы.

Стандарт полностью соответствует СТ СЭВ 838-78.

2. Номинальные диаметры резьбы должны соответствовать указанным на чертеже и в таблице.



- наружный диаметр наружной резьбы (винта); - средний диаметр наружной резьбы;  - внутренний диаметр наружной резьбы;  - внутренний диаметр внутренней резьбы (гайки); - средний диаметр внутренней резьбы; \* - наружный диаметр внутренней резьбы;  - шаг резьбы; - зазор по вершине резьбы;  - высота профиля наружной резьбы;  - рабочая высота профиля резьбы

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
\* Вероятно, ошибка оригинала. Следует читать . - Примечание "КОДЕКС".

Значения диаметров вычислены по формулам:

;

;

;



мм

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
| Номинальный диаметр резьбы  | Шаг  | Диаметр резьбы |
|  |  | наружный | средний | внутренний |
|  |  |  |  | ГОСТ 24737-81 Основные нормы взаимозаменяемости. Резьба трапецеидальная однозаходная. Основные размеры |  |  |
| 8 | 1,5 | 8,000 | 8,300 | 7,250 | 6,200 | 6,500 |
|  | 2 | 8,000 | 8,500 | 7,000 | 5,500 | 6,000 |
| 9 | 1,5 | 9,000 | 9,300 | 8,250 | 7,200 | 7,500 |
|  | 2 | 9,000 | 9,500 | 8,000 | 6,500 | 7,000 |
| 10 | 1,5 | 10,000 | 10,300 | 9,250 | 8,200 | 8,500 |
|  | 2 | 10,000 | 10,500 | 9,000 | 7,500 | 8,000 |
| 11 | 2 | 11,000 | 11,500 | 10,000 | 8,500 | 9,000 |
|  | 3 | 11,000 | 11,500 | 9,500 | 7,500 | 8,000 |
| 12 | 2 | 12,000 | 12,500 | 11,000 | 9,500 | 10,000 |
|  | 3 | 12,000 | 12,500 | 10,500 | 8,500 | 9,000 |
| 14 | 2 | 14,000 | 14,500 | 13,000 | 11,500 | 12,000 |
|  | 3 | 14,000 | 14,500 | 12,500 | 10,500 | 11,000 |
| 16 | 2 | 16,000 | 16,500 | 15,000 | 13,500 | 14,000 |
|  | 4 | 16,000 | 16,500 | 14,000 | 11,500 | 12,000 |
| 18 | 2 | 18,000 | 18,500 | 17,000 | 15,500 | 16,000 |
|  | 4 | 18,000 | 18,500 | 16,000 | 13,500 | 14,000 |
| 20 | 2 | 20,000 | 20,500 | 19,000 | 17,500 | 18,000 |
|  | 4 | 20,000 | 20,500 | 18,000 | 15,500 | 16,000 |
| 22 | 2 | 22,000 | 22,500 | 21,000 | 19,500 | 20,000 |
|  | 3 | 22,000 | 22,500 | 20,500 | 18,500 | 19,000 |
|  | 5 | 22,000 | 22,500 | 19,500 | 16,500 | 17,000 |
|  | 8 | 22,000 | 23,000 | 18,000 | 13,000 | 14,000 |
| 24 | 2 | 24,000 | 24,500 | 23,000 | 21,500 | 22,000 |
|  | 3 | 24,000 | 24,500 | 22,500 | 20,500 | 21,000 |
|  | 5 | 24,000 | 24,500 | 21,500 | 18,500 | 19,000 |
|  | 8 | 24,000 | 25,000 | 20,000 | 15,000 | 16,000 |
| 26 | 2 | 26,000 | 26,500 | 25,000 | 23,500 | 24,000 |
|  | 3 | 26,000 | 26,500 | 24,500 | 22,500 | 23,000 |
|  | 5 | 26,000 | 26,500 | 23,500 | 20,500 | 21,000 |
|  | 8 | 26,000 | 27,000 | 22,000 | 17,000 | 18,000 |
| 28 | 2 | 28,000 | 28,500 | 27,000 | 25,500 | 26,000 |
|  | 3 | 28,000 | 28,500 | 26,500 | 24,500 | 25,000 |
|  | 5 | 28,000 | 28,500 | 25,500 | 22,500 | 23,000 |
|  | 8 | 28,000 | 29,000 | 24,000 | 19,000 | 20,000 |
| 30 | 3 | 30,000 | 30,500 | 28,500 | 26,500 | 27,000 |
|  | 6 | 30,000 | 31,000 | 27,000 | 23,000 | 24,000 |
|  | 10 | 30,000 | 31,000 | 25,000 | 19,000 | 20,000 |
| 32 | 3 | 32,000 | 32,500 | 30,500 | 28,500 | 29,000 |
|  | 6 | 32,000 | 33,000 | 29,000 | 25,000 | 26,000 |
|  | 10 | 32,000 | 33,000 | 27,000 | 21,000 | 22,000 |
| 34 | 3 | 34,000 | 34,500 | 32,500 | 30,500 | 31,000 |
|  | 6 | 34,000 | 35,000 | 31,000 | 27,000 | 28,000 |
|  | 10 | 34,000 | 35,000 | 29,000 | 23,000 | 24,000 |
| 36 | 3 | 36,000 | 36,500 | 34,500 | 32,500 | 33,000 |
|  | 6 | 36,000 | 37,000 | 33,000 | 29,000 | 30,000 |
|  | 10 | 36,000 | 37,000 | 31,000 | 25,000 | 26,000 |
| 38 | 3 | 38,000 | 38,500 | 36,500 | 34,500 | 35,000 |
|  | 6 | 38,000 | 39,000 | 35,000 | 31,000 | 32,000 |
|  | 7 | 38,000 | 39,000 | 34,500 | 30,000 | 31,000 |
|  | 10 | 38,000 | 39,000 | 33,000 | 27,000 | 28,000 |
| 40 | 3 | 40,000 | 40,500 | 38,500 | 36,500 | 37,000 |
|  | 6 | 40,000 | 41,000 | 37,000 | 33,000 | 34,000 |
|  | 7 | 40,000 | 41,000 | 36,500 | 32,000 | 33,000 |
|  | 10 | 40,000 | 41,000 | 35,000 | 29,000 | 30,000 |
| 42 | 3 | 42,000 | 42,500 | 40,500 | 38,500 | 39,000 |
|  | 6 | 42,000 | 43,000 | 39,000 | 35,000 | 36,000 |
|  | 7 | 42,000 | 43,000 | 38,500 | 34,000 | 35,000 |
|  | 10 | 42,000 | 43,000 | 37,000 | 31,000 | 32,000 |
| 44 | 3 | 44,000 | 44,500 | 42,500 | 40,500 | 41,000 |
|  | 7 | 44,000 | 45,000 | 40,500 | 36,000 | 37,000 |
|  | 8 | 44,000 | 45,000 | 40,000 | 35,000 | 36,000 |
|  | 12 | 44,000 | 45,000 | 38,000 | 31,000 | 32,000 |
| 46 | 3 | 46,000 | 46,500 | 44,500 | 42,500 | 43,000 |
|  | 8 | 46,000 | 47,000 | 42,000 | 37,000 | 38,000 |
|  | 12 | 46,000 | 47,000 | 40,000 | 33,000 | 34,000 |
| 48 | 3 | 48,000 | 48,500 | 46,500 | 44,500 | 45,000 |
|  | 8 | 48,000 | 49,000 | 44,000 | 39,000 | 40,000 |
|  | 12 | 48,000 | 49,000 | 42,000 | 35,000 | 36,000 |
| 50 | 3 | 50,000 | 50,500 | 48,500 | 46,500 | 47,000 |
|  | 8 | 50,000 | 51,000 | 46,000 | 41,000 | 42,000 |
|  | 12 | 50,000 | 51,000 | 44,000 | 37,000 | 38,000 |
| 52 | 3 | 52,000 | 52,500 | 50,500 | 48,500 | 49,000 |
|  | 8 | 52,000 | 53,000 | 48,000 | 43,000 | 44,000 |
|  | 12 | 52,000 | 53,000 | 46,000 | 39,000 | 40,000 |
| 55 | 3 | 55,000 | 55,500 | 53,500 | 51,500 | 52,000 |
|  | 8 | 55,000 | 56,000 | 51,000 | 46,000 | 47,000 |
|  | 9 | 55,000 | 56,000 | 50,500 | 45,000 | 46,000 |
|  | 12 | 55,000 | 56,000 | 49,000 | 42,000 | 43,000 |
|  | 14 | 55,000 | 57,000 | 48,000 | 39,000 | 41,000 |
| 60 | 3 | 60,000 | 60,500 | 58,500 | 56,500 | 57,000 |
|  | 8 | 60,000 | 61,000 | 56,000 | 51,000 | 52,000 |
|  | 9 | 60,000 | 61,000 | 55,500 | 50,000 | 51,000 |
|  | 12 | 60,000 | 61,000 | 54,000 | 47,000 | 48,000 |
|  | 14 | 60,000 | 62,000 | 53,000 | 44,000 | 46,000 |
| 65 | 4 | 65,000 | 65,500 | 63,000 | 60,500 | 61,000 |
|  | 10 | 65,000 | 66,000 | 60,000 | 54,000 | 55,000 |
|  | 16 | 65,000 | 67,000 | 57,000 | 47,000 | 49,000 |
| 70 | 4 | 70,000 | 70,500 | 68,000 | 65,500 | 66,000 |
|  | 10 | 70,000 | 71,000 | 65,000 | 59,000 | 60,000 |
|  | 16 | 70,000 | 72,000 | 62,000 | 52,000 | 54,000 |
|  |  |  |  |  |  |  |

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