

Основные нормы взаимозаменяемости

ГОСТ  
24737—81

РЕЗЬБА ТРАПЕЦЕИДАЛЬНАЯ ОДНОЗАХОДНАЯ

Основные размеры

Взамен  
ГОСТ 24737—73 (в части  
основных размеров)Basic norms of interchangeability. Trapezoidal single-start screw thread.  
Basic dimensions

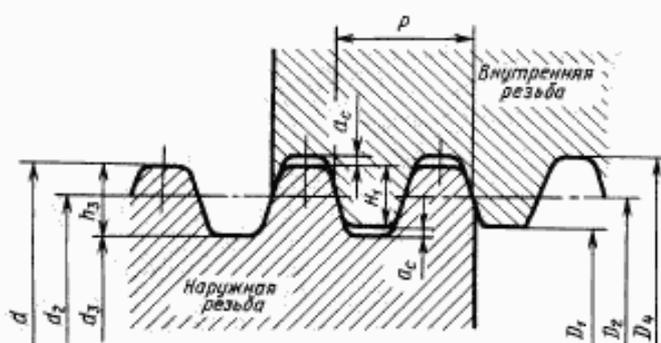
Постановлением Государственного комитета СССР по стандартам от 30 апреля 1981 г. № 2262 дата введения установлена

01.01.82

1. Настоящий стандарт распространяется на трапецеидальную однозаходную резьбу с профилем по ГОСТ 9484—81, диаметрами и шагами по ГОСТ 24737—81 и устанавливает номинальные диаметры резьбы.

Стандарт полностью соответствует СТ СЭВ 838—78.

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



$d$  — наружный диаметр наружной резьбы (винта);  $d_2$  — средний диаметр наружной резьбы;  $d_3$  — внутренний диаметр наружной резьбы;  $d_1$  — внутренний диаметр внутренней резьбы (гайки);  $D_2$  — средний диаметр внутренней резьбы;  $D_4$  — наружный диаметр внутренней резьбы;  $P$  — шаг резьбы;  $a_c$  — зазор по вершине резьбы;  $h_3$  — высота профиля наружной резьбы;  $H_1$  — рабочая высота профиля резьбы.

Значения диаметров вычислены по формулам:

$$\begin{aligned} D_1 &= d - 2H_1 = d - P; \\ D_4 &= d + 2a_c; \\ d_2 = D_2 &= d - H_1 = d - 0,5P; \\ d_3 &= d - 2h_3 \end{aligned}$$

Издание официальное

★

Перепечатка воспрещена

Переиздание.

98

мм

| Номинальный диаметр резьбы $d$ | Шаг $P$ | Диаметр резьбы |        |             |            |        |
|--------------------------------|---------|----------------|--------|-------------|------------|--------|
|                                |         | наружный       |        | средний     | внутренний |        |
|                                |         | $d$            | $D_e$  | $d_2 = D_1$ | $d_1$      | $D_1$  |
| 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 |

| Номинальный диаметр резьбы $d$ | Шаг $P$ | мм             |        |             |            |        |
|--------------------------------|---------|----------------|--------|-------------|------------|--------|
|                                |         | Диаметр резьбы |        |             |            |        |
|                                |         | наружный       |        | средний     | внутренний |        |
|                                |         | $d$            | $D_e$  | $d_2 = D_1$ | $d_3$      | $D_1$  |
| 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 |
| 75                             | 4       | 75,000         | 75,500 | 73,000      | 70,500     | 71,000 |
|                                | 10      | 75,000         | 76,000 | 70,000      | 64,000     | 65,000 |
|                                | 16      | 75,000         | 77,000 | 67,000      | 57,000     | 59,000 |
| 80                             | 4       | 80,000         | 80,500 | 78,000      | 75,500     | 76,000 |
|                                | 10      | 80,000         | 81,000 | 75,000      | 69,000     | 70,000 |
|                                | 16      | 80,000         | 82,000 | 72,000      | 62,000     | 64,000 |
| 85                             | 4       | 85,000         | 85,500 | 83,000      | 80,500     | 81,000 |
|                                | 5       | 85,000         | 85,500 | 82,500      | 79,500     | 80,000 |
|                                | 12      | 85,000         | 86,000 | 79,000      | 72,000     | 73,000 |
|                                | 18      | 85,000         | 87,000 | 76,000      | 65,000     | 67,000 |
|                                | 20      | 85,000         | 87,000 | 75,000      | 63,000     | 65,000 |

| Номинальный диаметр резьбы $d$ | Шаг $P$ | мм             |         |             |            |         |
|--------------------------------|---------|----------------|---------|-------------|------------|---------|
|                                |         | Диаметр резьбы |         |             |            |         |
|                                |         | наружный       |         | средний     | внутренний |         |
|                                |         | $d$            | $D_4$   | $d_2 = D_2$ | $d_1$      | $D_1$   |
| 90                             | 4       | 90,000         | 90,500  | 88,000      | 85,500     | 86,000  |
|                                | 5       | 90,000         | 90,500  | 87,500      | 84,500     | 85,000  |
|                                | 12      | 90,000         | 91,000  | 84,000      | 77,000     | 78,000  |
|                                | 18      | 90,000         | 92,000  | 81,000      | 70,000     | 72,000  |
|                                | 20      | 90,000         | 92,000  | 80,000      | 68,000     | 70,000  |
| 95                             | 4       | 95,000         | 95,500  | 93,000      | 90,500     | 91,000  |
|                                | 5       | 95,000         | 95,500  | 92,500      | 89,500     | 90,000  |
|                                | 12      | 95,000         | 96,000  | 89,000      | 82,000     | 83,000  |
|                                | 18      | 95,000         | 97,000  | 86,000      | 75,000     | 77,000  |
|                                | 20      | 95,000         | 97,000  | 85,000      | 73,000     | 75,000  |
| 100                            | 4       | 100,000        | 100,500 | 98,000      | 95,500     | 96,000  |
|                                | 5       | 100,000        | 100,500 | 97,500      | 94,500     | 95,000  |
|                                | 12      | 100,000        | 101,000 | 94,000      | 87,000     | 88,000  |
|                                | 20      | 100,000        | 102,000 | 90,000      | 78,000     | 80,000  |
| 110                            | 4       | 110,000        | 110,500 | 108,000     | 105,500    | 106,000 |
|                                | 5       | 110,000        | 110,500 | 107,500     | 104,500    | 105,000 |
|                                | 12      | 110,000        | 111,000 | 104,000     | 97,000     | 98,000  |
|                                | 20      | 110,000        | 112,000 | 100,000     | 88,000     | 90,000  |
| 120                            | 6       | 120,000        | 121,000 | 117,000     | 113,000    | 114,000 |
|                                | 14      | 120,000        | 122,000 | 113,000     | 104,000    | 106,000 |
|                                | 16      | 120,000        | 122,000 | 112,000     | 102,000    | 104,000 |
|                                | 22      | 120,000        | 122,000 | 109,000     | 96,000     | 98,000  |
|                                | 24      | 120,000        | 122,000 | 108,000     | 94,000     | 96,000  |
| 130                            | 6       | 130,000        | 131,000 | 127,000     | 123,000    | 124,000 |
|                                | 14      | 130,000        | 132,000 | 123,000     | 114,000    | 116,000 |
|                                | 16      | 130,000        | 132,000 | 122,000     | 112,000    | 114,000 |
|                                | 22      | 130,000        | 132,000 | 119,000     | 106,000    | 108,000 |
|                                | 24      | 130,000        | 132,000 | 118,000     | 104,000    | 106,000 |
| 140                            | 6       | 140,000        | 141,000 | 137,000     | 133,000    | 134,000 |
|                                | 14      | 140,000        | 142,000 | 133,000     | 124,000    | 126,000 |
|                                | 16      | 140,000        | 142,000 | 132,000     | 122,000    | 124,000 |
|                                | 24      | 140,000        | 142,000 | 128,000     | 114,000    | 116,000 |
| 150                            | 6       | 150,000        | 151,000 | 147,000     | 143,000    | 144,000 |
|                                | 16      | 150,000        | 152,000 | 142,000     | 132,000    | 134,000 |
|                                | 24      | 150,000        | 152,000 | 138,000     | 124,000    | 126,000 |
| 160                            | 6       | 160,000        | 161,000 | 157,000     | 153,000    | 154,000 |
|                                | 8       | 160,000        | 161,000 | 156,000     | 151,000    | 152,000 |
|                                | 16      | 160,000        | 162,000 | 152,000     | 142,000    | 144,000 |
|                                | 24      | 160,000        | 162,000 | 148,000     | 134,000    | 136,000 |
|                                | 28      | 160,000        | 162,000 | 146,000     | 130,000    | 132,000 |
| 170                            | 6       | 170,000        | 171,000 | 167,000     | 163,000    | 164,000 |
|                                | 8       | 170,000        | 171,000 | 166,000     | 161,000    | 162,000 |
|                                | 16      | 170,000        | 172,000 | 162,000     | 152,000    | 154,000 |
|                                | 24      | 170,000        | 172,000 | 158,000     | 144,000    | 146,000 |
|                                | 28      | 170,000        | 172,000 | 156,000     | 140,000    | 142,000 |
| 180                            | 8       | 180,000        | 181,000 | 176,000     | 171,000    | 172,000 |
|                                | 18      | 180,000        | 182,000 | 171,000     | 160,000    | 162,000 |
|                                | 20      | 180,000        | 182,000 | 170,000     | 158,000    | 160,000 |
|                                | 28      | 180,000        | 182,000 | 166,000     | 150,000    | 152,000 |
|                                | 32      | 180,000        | 182,000 | 164,000     | 146,000    | 148,000 |

| мм                             |         |                |         |             |            |         |
|--------------------------------|---------|----------------|---------|-------------|------------|---------|
| Номинальный диаметр резьбы $d$ | Шаг $P$ | Диаметр резьбы |         |             |            |         |
|                                |         | наружный       |         | средний     | внутренний |         |
|                                |         | $d$            | $D_e$   | $d_2 = D_1$ | $d_3$      | $D_1$   |
| 190                            | 8       | 190,000        | 191,000 | 186,000     | 181,000    | 182,000 |
|                                | 18      | 190,000        | 192,000 | 181,000     | 170,000    | 172,000 |
|                                | 20      | 190,000        | 192,000 | 180,000     | 168,000    | 170,000 |
|                                | 32      | 190,000        | 192,000 | 174,000     | 156,000    | 158,000 |
| 200                            | 8       | 200,000        | 201,000 | 196,000     | 191,000    | 192,000 |
|                                | 10      | 200,000        | 201,000 | 195,000     | 189,000    | 190,000 |
|                                | 18      | 200,000        | 202,000 | 191,000     | 180,000    | 182,000 |
|                                | 20      | 200,000        | 202,000 | 190,000     | 178,000    | 180,000 |
|                                | 32      | 200,000        | 202,000 | 184,000     | 166,000    | 168,000 |
| 210                            | 8       | 210,000        | 211,000 | 206,000     | 201,000    | 202,000 |
|                                | 10      | 210,000        | 211,000 | 205,000     | 199,000    | 200,000 |
|                                | 20      | 210,000        | 212,000 | 200,000     | 180,000    | 190,000 |
|                                | 32      | 210,000        | 212,000 | 194,000     | 176,000    | 178,000 |
|                                | 36      | 210,000        | 212,000 | 192,000     | 172,000    | 174,000 |
| 220                            | 8       | 220,000        | 221,000 | 216,000     | 211,000    | 212,000 |
|                                | 10      | 220,000        | 221,000 | 215,000     | 209,000    | 210,000 |
|                                | 20      | 220,000        | 222,000 | 210,000     | 198,000    | 200,000 |
|                                | 32      | 220,000        | 222,000 | 204,000     | 186,000    | 188,000 |
|                                | 36      | 220,000        | 222,000 | 202,000     | 182,000    | 184,000 |
| 230                            | 8       | 230,000        | 231,000 | 226,000     | 221,000    | 222,000 |
|                                | 20      | 230,000        | 232,000 | 220,000     | 208,000    | 210,000 |
|                                | 36      | 230,000        | 232,000 | 212,000     | 192,000    | 194,000 |
| 240                            | 8       | 240,000        | 241,000 | 236,000     | 231,000    | 232,000 |
|                                | 12      | 240,000        | 241,000 | 234,000     | 227,000    | 228,000 |
|                                | 22      | 240,000        | 242,000 | 229,000     | 216,000    | 218,000 |
|                                | 24      | 240,000        | 242,000 | 228,000     | 214,000    | 216,000 |
|                                | 36      | 240,000        | 242,000 | 222,000     | 202,000    | 204,000 |
|                                | 40      | 240,000        | 242,000 | 220,000     | 198,000    | 200,000 |
| 250                            | 12      | 250,000        | 251,000 | 244,000     | 237,000    | 238,000 |
|                                | 22      | 250,000        | 252,000 | 239,000     | 226,000    | 228,000 |
|                                | 24      | 250,000        | 252,000 | 238,000     | 224,000    | 226,000 |
|                                | 40      | 250,000        | 252,000 | 230,000     | 208,000    | 210,000 |
| 260                            | 12      | 260,000        | 261,000 | 254,000     | 247,000    | 248,000 |
|                                | 22      | 260,000        | 262,000 | 249,000     | 236,000    | 238,000 |
|                                | 24      | 260,000        | 262,000 | 248,000     | 234,000    | 236,000 |
|                                | 40      | 260,000        | 262,000 | 240,000     | 218,000    | 220,000 |
| 270                            | 12      | 270,000        | 271,000 | 264,000     | 257,000    | 258,000 |
|                                | 24      | 270,000        | 272,000 | 258,000     | 244,000    | 246,000 |
|                                | 40      | 270,000        | 272,000 | 250,000     | 228,000    | 230,000 |
| 280                            | 12      | 280,000        | 281,000 | 274,000     | 267,000    | 268,000 |
|                                | 24      | 280,000        | 282,000 | 268,000     | 254,000    | 256,000 |
|                                | 40      | 280,000        | 282,000 | 260,000     | 238,000    | 240,000 |
| 290                            | 12      | 290,000        | 291,000 | 284,000     | 277,000    | 278,000 |
|                                | 24      | 290,000        | 292,000 | 278,000     | 264,000    | 266,000 |
|                                | 44      | 290,000        | 292,000 | 268,000     | 244,000    | 246,000 |
| 300                            | 12      | 300,000        | 301,000 | 294,000     | 287,000    | 288,000 |
|                                | 24      | 300,000        | 302,000 | 288,000     | 274,000    | 276,000 |
|                                | 40      | 300,000        | 302,000 | 280,000     | 258,000    | 260,000 |
|                                | 44      | 300,000        | 302,000 | 278,000     | 254,000    | 256,000 |
| 320                            | 12      | 320,000        | 321,000 | 314,000     | 307,000    | 308,000 |
|                                | 48      | 320,000        | 322,000 | 296,000     | 270,000    | 272,000 |

| Номиналь-<br>ный<br>диаметр<br>резьбы $d$ | Шаг<br>$P$ | мм             |         |             |            |         |
|---|------------|----------------|---------|-------------|------------|---------|
|   |            | Диаметр резьбы |         |             |            |         |
|   |            | наружный       |         | средний     | внутренний |         |
|   |            | $d$            | $D_e$   | $d_2 = D_2$ | $d_1$      | $D_1$   |
| 340                                       | 12         | 340,000        | 341,000 | 334,000     | 327,000    | 328,000 |
|   | 48         | 340,000        | 342,000 | 316,000     | 290,000    | 292,000 |
| 360                                       | 12         | 360,000        | 361,000 | 354,000     | 347,000    | 348,000 |
|   | 48         | 360,000        | 362,000 | 336,000     | 310,000    | 312,000 |
| 380                                       | 12         | 380,000        | 381,000 | 374,000     | 367,000    | 368,000 |
|   | 48         | 380,000        | 382,000 | 356,000     | 330,000    | 332,000 |
| 400                                       | 12         | 400,000        | 401,000 | 394,000     | 387,000    | 388,000 |
|   | 48         | 400,000        | 402,000 | 376,000     | 350,000    | 352,000 |
| 420                                       | 16         | 420,000        | 422,000 | 412,000     | 402,000    | 404,000 |
| 440                                       | 16         | 440,000        | 442,000 | 432,000     | 422,000    | 424,000 |
| 460                                       | 16         | 460,000        | 462,000 | 452,000     | 442,000    | 444,000 |
| 480                                       | 16         | 480,000        | 482,000 | 472,000     | 462,000    | 464,000 |
| 500                                       | 16         | 500,000        | 502,000 | 492,000     | 482,000    | 484,000 |
| 520                                       | 20         | 520,000        | 522,000 | 510,000     | 498,000    | 500,000 |
| 540                                       | 20         | 540,000        | 542,000 | 530,000     | 518,000    | 520,000 |
| 560                                       | 20         | 560,000        | 562,000 | 550,000     | 538,000    | 540,000 |
| 580                                       | 20         | 580,000        | 582,000 | 570,000     | 558,000    | 560,000 |
| 600                                       | 24         | 600,000        | 602,000 | 588,000     | 574,000    | 576,000 |
| 620                                       | 24         | 620,000        | 622,000 | 608,000     | 594,000    | 596,000 |
| 640                                       | 24         | 640,000        | 642,000 | 628,000     | 614,000    | 616,000 |