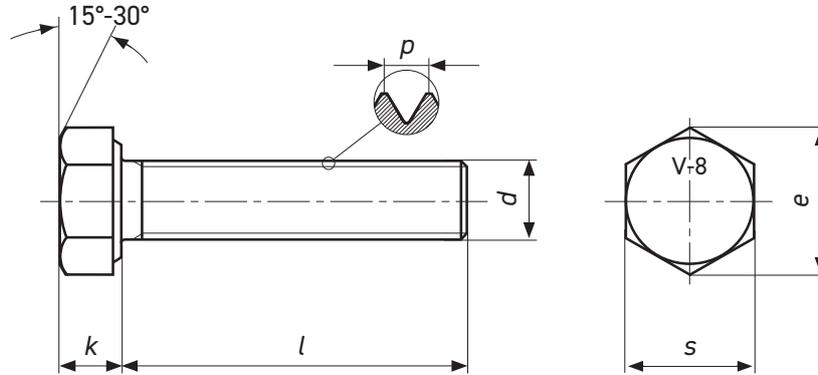


# FULL THREAD HEXAGON HEAD SCREWS

ISO METRIC COARSE THREAD

ISO UNI DIN  
4017\* 5739 933



| MATERIAL              | STEEL  | STAINLESS STEEL  | BRASS  |
|-----------------------|--|--|--|
| MECHANICAL PROPERTIES | ACCORDING TO ISO 898-1   | ACCORDING TO ISO 3506-1  |  |
| TENSILE STRENGTH      |  |  | 250 ÷ 400 N/mm <sup>2</sup>  |
| CLASS                 | <div style="display: flex; gap: 5px;"> <div style="background-color: #28a745; color: white; padding: 2px 5px;">4.8</div> <div style="background-color: #dc3545; color: white; padding: 2px 5px;">8.8</div> </div> <div style="display: flex; gap: 5px; margin-top: 5px;"> <div style="background-color: #007bff; color: white; padding: 2px 5px;">10.9</div> <div style="background-color: #ffc107; padding: 2px 5px;">12.9</div> </div> | <div style="display: flex; gap: 5px;"> <div style="background-color: #6c757d; color: white; padding: 2px 5px;">A2-70</div> </div> <div style="display: flex; gap: 5px; margin-top: 5px;"> <div style="background-color: #ffc107; padding: 2px 5px;">A4-70</div> <div style="background-color: #ffc107; padding: 2px 5px;">A4-80</div> </div> | <div style="background-color: #dc3545; color: white; padding: 5px 10px; text-align: center; font-weight: bold;">OT</div> |
| TOLLERANCES           | ACCORDING TO ISO 4759-1<br>CAT A-B-C   | ACCORDING TO ISO 4759-1<br>CAT A-B-C   | ACCORDING TO ISO 4759-1<br>CAT A-B-C   |
| AVAILABLE TREATMENT   | Plain, Black, White zinc plated or Yellow zinc plated according to RoHS Hot dip galvanized. Other coatings on request  |  |  |

|              |       |       |       |       |       |       |       |       |       |       |       |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <i>d</i>     | M3    | M4    | M5    | M6    | M7    | M8    | M10   | M12   | M14   | M16   | M18   |
| <i>p</i>     | 0,5   | 0,7   | 0,8   | 1     | 1     | 1,25  | 1,5   | 1,75  | 2     | 2     | 2,5   |
| <i>s*</i>    | 5,5   | 7     | 8     | 10    | 11    | 13    | 17/16 | 19/18 | 22/21 | 24    | 27    |
| <i>k</i>     | 2     | 2,8   | 3,5   | 4     | 4,8   | 5,3   | 6,4   | 7,5   | 8,8   | 10    | 11,5  |
| <i>e min</i> | 5,88  | 7,66  | 8,79  | 11,05 | 12,12 | 14,38 | 18,9  | 21,1  | 24,49 | 26,75 | 30,14 |
| <i>d</i>     | M20   | M22   | M24   | M27   | M30   | M33   | M36   | M39   | M42   | M45   | M48   |
| <i>p</i>     | 2,5   | 2,5   | 3     | 3     | 3,5   | 3,5   | 4     | 4     | 4,5   | 4,5   | 5     |
| <i>s*</i>    | 30    | 32/34 | 36    | 41    | 46    | 50    | 55    | 60    | 65    | 70    | 80    |
| <i>k</i>     | 12,5  | 14    | 15    | 17    | 18,7  | 21    | 22,5  | 25    | 26    | 28    | 33    |
| <i>e min</i> | 33,53 | 35,72 | 39,98 | 45,2  | 50,85 | 55,37 | 60,79 | 66,49 | 72,02 | 76,95 | 82,6  |

The ISO standard differs from DIN and UNI standards for the sizes "s" and "e" in the diameters M10, M12, M14, M22.  
The first hex key value refers to UNI and DIN, while the second value refers to ISO.  
**Other materials available on request.**



| d   | M3   | M4   | M5    | M6   | M7   | M8   | M10   | M12  | M14  | M16  | M18  | M20 | M22 | M24 | M27 | M30  | M33  | M36  | M39  | M42  | M45  | M48  |  |
|-----|------|------|-------|------|------|------|-------|------|------|------|------|-----|-----|-----|-----|------|------|------|------|------|------|------|--|
| 6   | 0,67 | 1,34 |       |      |      |      |       |      |      |      |      |     |     |     |     |      |      |      |      |      |      |      |  |
| 8   | 0,71 | 1,49 | 2,38  | 3,74 |      | 8,5  |       |      |      |      |      |     |     |     |     |      |      |      |      |      |      |      |  |
| 10  | 0,75 | 1,64 | 2,63  | 4,08 | 6,53 | 9,1  | 16,2  |      |      |      |      |     |     |     |     |      |      |      |      |      |      |      |  Kg |
| 12  | 0,92 | 1,80 | 2,87  | 4,42 | 6,92 | 9,8  | 17,2  | 24,9 |      |      |      |     |     |     |     |      |      |      |      |      |      |      |  |
| 14  | 1    | 1,95 | 3,12  | 4,77 | 7,39 | 10,4 | 18,2  | 26,3 |      |      |      |     |     |     |     |      |      |      |      |      |      |      |  |
| 16  | 1,08 | 2,10 | 3,37  | 5,11 | 7,86 | 11,1 | 19,2  | 27,7 | 44   |      |      |     |     |     |     |      |      |      |      |      |      |      |  |
| 18  |      | 2,26 | 3,62  | 5,46 | 8,41 | 11,7 | 20,2  | 29,1 | 46   |      |      |     |     |     |     |      |      |      |      |      |      |      |  |
| 20  | 1,25 | 2,41 | 3,87  | 5,8  | 8,91 | 12,3 | 21,2  | 31   | 48   | 63,5 | 88   |     |     |     |     |      |      |      |      |      |      |      |  |
| 22  |      | 2,56 | 4,12  | 6,15 | 9,35 | 12,9 | 22,2  | 33   | 50   | 66,2 |      |     |     |     |     |      |      |      |      |      |      |      |  |
| 25  | 1,46 | 2,80 | 4,49  | 6,65 | 10,1 | 13,9 | 23,7  | 34,1 | 53   | 70,2 | 95,8 | 124 |     |     |     |      |      |      |      |      |      |      |  |
| 28  |      |      |       | 7,15 |      | 14,9 | 25,2  |      |      |      |      |     |     |     |     |      |      |      |      |      |      |      |  |
| 30  | 1,67 | 3,19 | 5,11  | 7,51 | 11,4 | 15,5 | 26,2  | 37,7 | 57,9 | 76,9 | 104  | 134 | 168 | 214 |     |      |      |      |      |      |      |      |  |
| 35  | 1,88 | 3,57 | 5,73  | 8,37 | 12,6 | 17,1 | 28,7  | 41,3 | 62,9 | 83,5 | 112  | 145 | 181 | 229 |     |      |      |      |      |      |      |      |  |
| 40  | 2,09 | 3,96 | 6,35  | 9,23 | 13,9 | 18,7 | 31,2  | 44,9 | 67,9 | 90,2 | 120  | 155 | 193 | 244 |     | 448  |      |      |      |      |      |      |  |
| 45  | 2,30 | 4,34 | 6,99  | 10,1 | 15,1 | 20,3 | 33,7  | 48,5 | 72,9 | 97,1 | 128  | 165 | 206 | 259 |     | 472  |      |      |      |      |      |      |  |
| 50  | 2,52 | 4,73 | 7,59  | 11,0 | 16,4 | 21,8 | 36,2  | 52   | 77,9 | 103  | 136  | 176 | 219 | 274 | 377 | 496  |      | 797  |      |      |      |      |  |
| 55  |      | 5,11 | 8,19  | 11,9 | 17,6 | 23,4 | 38,7  | 55,6 | 82,9 | 110  | 145  | 186 | 232 | 289 | 397 | 519  |      | 822  |      |      |      |      |  |
| 60  |      | 5,50 | 8,80  | 12,7 | 18,8 | 25,0 | 41,3  | 58,2 | 87,8 | 117  | 153  | 196 | 244 | 304 | 416 | 543  | 688  | 851  |      |      |      |      |  |
| 65  |      |      | 9,40  | 13,6 | 20,1 | 26,6 | 43,8  | 62,8 | 92,8 | 123  | 161  | 207 | 257 | 319 | 435 | 566  | 717  | 886  |      |      |      |      |  |
| 70  |      |      | 10,00 | 14,4 | 21,3 | 28,2 | 46,3  | 66,4 | 97,8 | 130  | 169  | 217 | 269 | 334 | 454 | 590  | 746  | 910  |      |      |      |      |  |
| 75  |      |      |       | 15,3 | 22,6 | 29,8 | 48,8  | 70   | 102  | 137  | 177  | 227 | 282 | 348 | 473 | 614  | 775  | 950  |      |      |      |      |  |
| 80  |      |      | 11,21 | 16,2 | 23,8 | 31,4 | 51,3  | 73,6 | 107  | 144  | 186  | 238 | 295 | 363 | 492 | 637  | 806  | 990  | 1240 | 1460 |      |      |  |
| 85  |      |      |       | 17,0 | 25,1 | 33,0 | 53,8  | 77,2 | 112  | 150  | 194  | 247 | 308 | 378 | 512 | 661  | 837  | 1020 | 1280 | 1500 |      |      |  |
| 90  |      |      |       | 17,9 | 26,3 | 34,6 | 56,3  | 80,8 | 117  | 157  | 202  | 258 | 321 | 393 | 531 | 685  | 866  | 1060 | 1320 | 1550 |      |      |  |
| 95  |      |      |       | 18,8 | 27,5 | 35,2 | 59,8  | 84,4 | 122  | 164  | 210  | 268 |     |     |     |      |      |      |      |      |      |      |  |
| 100 |      |      |       | 19,6 | 28,8 | 37,7 | 61,3  | 88   | 127  | 170  | 218  | 279 | 346 | 423 | 569 | 732  | 920  | 1140 | 1400 | 1650 | 1980 | 2320 |  |
| 110 |      |      |       | 21,3 |      | 40,9 | 66,4  | 95,2 | 137  | 184  | 235  | 300 | 371 | 453 | 608 | 779  | 978  | 1200 | 1480 | 1740 | 2090 | 2450 |  |
| 120 |      |      |       | 23,0 |      | 43,6 | 71,4  | 102  | 147  | 197  | 251  | 320 | 397 | 483 | 647 | 827  | 1040 | 1260 | 1560 | 1840 | 2190 | 2570 |  |
| 130 |      |      |       |      |      | 46,4 | 76,4  | 109  | 157  | 210  | 268  | 340 | 421 | 513 | 685 | 874  | 1090 | 1330 | 1650 | 1930 | 2300 | 2690 |  |
| 140 |      |      |       |      |      | 49,1 | 81,4  | 116  | 167  | 224  | 284  | 361 | 448 | 543 | 724 | 921  | 1150 | 1400 | 1730 | 2020 | 2410 | 2820 |  |
| 150 |      |      |       |      |      | 51,8 | 86,4  | 123  | 177  | 237  | 300  | 381 | 473 | 572 | 762 | 969  | 1210 | 1470 | 1810 | 2120 | 2520 | 2940 |  |
| 160 |      |      |       |      |      | 54,6 | 91,4  | 130  | 187  | 251  | 316  | 402 | 498 | 602 | 801 | 1010 | 1270 | 1540 | 1890 | 2210 | 2630 | 3060 |  |
| 170 |      |      |       |      |      | 57,3 | 96,4  | 137  | 197  | 264  | 332  | 422 | 523 | 632 | 839 | 1060 | 1330 | 1610 | 1970 | 2300 | 2740 |      |  |
| 180 |      |      |       |      |      | 60,0 | 101,4 | 144  | 207  | 278  | 348  | 442 | 548 | 662 | 875 | 1110 | 1390 | 1680 | 2050 | 2400 | 2850 | 3310 |  |
| 190 |      |      |       |      |      | 62,8 | 106,4 | 151  | 217  | 291  | 364  | 462 | 573 | 692 | 911 | 1160 | 1440 | 1740 | 2140 | 2500 | 2960 |      |  |
| 200 |      |      |       |      |      | 65,5 | 111,4 | 158  | 227  | 305  | 380  | 484 | 598 | 722 | 947 | 1210 | 1500 | 1810 | 2220 | 2590 | 3060 | 3560 |  |
| 210 |      |      |       |      |      |      |       |      |      |      |      |     |     |     |     |      |      |      |      |      |      |      | 2700   |

l = LENGTH

 **Weight for 1000 pcs**

(\*\*) According to the norm sizes above the black line are Class A and below Class B.

For stainless steel A2 products, multiply the weight values for 1,01, A4 by 1,013.

For the weights of the brass products multiply the values by 1,083.

The weights indicated are approximate. **Other sizes available on request.**

