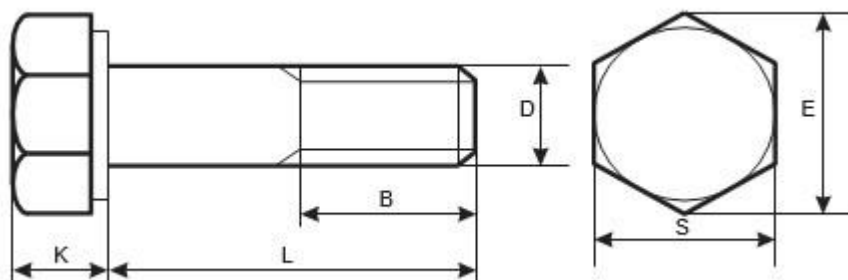




## Product Dimensions, Standards and Weights

## DIN 931 / ISO 4014 Technical Specifications

### Metric DIN 931 Hexagon Head Cap Screws/Bolts Part Thread



Dimensions of Metric DIN 931 Hexagon Head Cap Screws/Bolts Part Thread

| Thread D                                                                  | M4   | M5   | M6    | M8    | M10  | M12  | M14   | M16   | M18   | M20   | M22   | M24   |
|---------------------------------------------------------------------------|------|------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|
| <b>S</b><br><b>E</b><br><b>K</b>                                          | 7    | 8    | 10    | 13    | 17   | 19   | 22    | 24    | 27    | 30    | 32    | 36    |
|                                                                           | 7.74 | 8.87 | 11.05 | 14.38 | 18.9 | 21.1 | 24.49 | 26.75 | 30.14 | 33.14 | 35.72 | 39.98 |
|                                                                           | 2.8  | 3.5  | 4     | 5.5   | 7    | 8    | 9     | 10    | 12    | 13    | 14    | 15    |
| <b>B</b><br><b>L ≤ 125</b><br><b>25 &lt; L ≤ 200</b><br><b>L &gt; 200</b> | 14   | 16   | 18    | 22    | 26   | 30   | 34    | 38    | 42    | 46    | 50    | 54    |
|                                                                           | 20   | 22   | 24    | 28    | 32   | 36   | 40    | 44    | 48    | 52    | 56    | 60    |
|                                                                           |      |      |       |       | 45   | 49   | 53    | 57    | 61    | 65    | 69    | 73    |

| Thread D                                                                   | M27   | M30   | M33  | M36   | M39   | M42   | M45   | M48   |
|----------------------------------------------------------------------------|-------|-------|------|-------|-------|-------|-------|-------|
| <b>S</b>                                                                   | 41    | 46    | 50   | 55    | 60    | 65    | 70    | 75    |
| <b>E</b>                                                                   | 45.63 | 51.28 | 55.8 | 61.31 | 66.96 | 72.61 | 78.26 | 83.91 |
| <b>K</b>                                                                   | 17    | 19    | 21   | 23    | 25    | 26    | 28    | 30    |
| <b>B</b><br><b>L ≤ 125</b><br><b>125 &lt; L ≤ 200</b><br><b>L &gt; 200</b> | 60    | 66    | 72   | 78    | 84    | 90    | 96    | 102   |
|                                                                            | 66    | 72    | 78   | 84    | 90    | 96    | 102   | 108   |
|                                                                            | 79    | 85    | 91   | 97    | 103   | 109   | 115   | 121   |



## Weights of Metric DIN 931 Hexagon Head Cap Screws/Bolts Part Thread

| L (mm) | M4                      | M5   | M6   | M8   | M10  | M12  | M14  | M16 | M18 | M20 | M22 | M24 |
|--------|-------------------------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
|        | Weight in Kg(s)/1000pcs |      |      |      |      |      |      |     |     |     |     |     |
| 25     | 3.12                    |      |      |      |      |      |      |     |     |     |     |     |
| 30     |                         | 5.64 | 8.06 |      |      |      |      |     |     |     |     |     |
| 35     |                         | 6.42 | 9.13 | 18.2 |      |      |      |     |     |     |     |     |
| 40     |                         | 7.2  | 10.2 | 20.7 | 35   |      |      |     |     |     |     |     |
| 45     |                         | 7.98 | 11.3 | 22.2 | 38   | 53.6 |      |     |     |     |     |     |
| 50     |                         | 8.76 | 12.3 | 24.2 | 41.1 | 58.1 | 82.2 |     |     |     |     |     |
| 55     |                         | 9.54 | 13.4 | 25.8 | 43.8 | 62.6 | 88.3 | 115 |     |     |     |     |
| 60     |                         | 10.3 | 14.4 | 29.8 | 46.9 | 67   | 94.3 | 123 | 161 |     |     |     |
| 65     |                         | 11.1 | 15.5 | 29.8 | 50   | 70.3 | 100  | 131 | 171 | 219 |     |     |
| 70     |                         | 11.9 | 16.5 | 31.8 | 53.1 | 74.7 | 106  | 139 | 181 | 231 | 281 |     |
| 75     |                         | 12.7 | 17.6 | 33.7 | 56.2 | 79.1 | 112  | 147 | 191 | 243 | 296 | 264 |
| 80     |                         | 13.5 | 18.6 | 35.7 | 62.3 | 83.6 | 118  | 155 | 201 | 255 | 311 | 382 |
| 90     |                         |      | 20.8 | 39.6 | 68.5 | 92.4 | 128  | 171 | 220 | 279 | 341 | 428 |
| 100    |                         |      |      | 43.6 | 77.7 | 100  | 140  | 186 | 240 | 303 | 370 | 464 |
| 110    |                         |      |      | 47.5 | 83.9 | 109  | 152  | 202 | 260 | 327 | 400 | 500 |
| 120    |                         |      |      |      | 90   | 118  | 165  | 218 | 280 | 351 | 430 | 535 |
| 130    |                         |      |      |      | 96.2 | 127  | 175  | 230 | 295 | 365 | 450 | 560 |
| 140    |                         |      |      |      | 102  | 136  | 187  | 246 | 315 | 389 | 480 | 595 |
| 150    |                         |      |      |      | 108  | 145  | 199  | 262 | 335 | 423 | 510 | 630 |



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| Thread D | M27                     | M30  | M33  | M36  | M39  | M42  | M45  | M48  |
|----------|-------------------------|------|------|------|------|------|------|------|
| L (mm)   | Weight in Kg(s)/1000pcs |      |      |      |      |      |      |      |
| 80       | 511                     |      |      |      |      |      |      |      |
| 90       | 557                     | 712  |      |      |      |      |      |      |
| 100      | 603                     | 767  | 951  |      |      |      |      |      |
| 110      | 650                     | 823  | 1020 | 1250 | 1510 |      |      |      |
| 120      | 695                     | 880  | 1090 | 1330 | 1590 | 1900 | 2260 |      |
| 130      | 720                     | 920  | 1150 | 1400 | 1650 | 1980 | 2350 | 2780 |
| 140      | 765                     | 975  | 1220 | 1480 | 1740 | 2090 | 2480 | 2920 |
| 150      | 810                     | 1030 | 1290 | 1560 | 1830 | 2200 | 2600 | 3010 |
| 160      | 855                     | 1090 | 1350 | 1640 | 1930 | 2310 | 2730 | 3160 |
| 180      | 945                     | 1200 | 1480 | 1900 | 2120 | 2520 | 2980 | 3440 |
| 200      | 1030                    | 1310 | 1610 | 2060 | 2310 | 2740 | 3220 | 3720 |
| 220      | 1130                    | 1420 | 1750 | 2220 | 2500 | 2960 | 3470 | 4010 |
| 240      |                         | 1530 | 1880 | 2380 | 2700 | 3180 | 3720 | 4290 |
| 260      |                         | 1640 | 2020 | 2540 | 2900 | 3400 | 3970 | 4570 |
| 280      |                         | 1750 | 2160 | 2700 | 2700 | 3620 | 4220 | 1850 |
| 300      |                         | 1860 | 2300 | 2860 | 2860 | 3840 | 4470 | 5130 |



## Weights of Metric DIN 931 Hexagon Head Cap Screws/Bolts Part Thread

| Thread D | M12                     | M14 | M16 | M18 | M20 | M22  | M24  |
|----------|-------------------------|-----|-----|-----|-----|------|------|
| L (mm)   | Weight in Kg(s)/1000pcs |     |     |     |     |      |      |
| 160      | 153                     | 211 | 278 | 355 | 447 | 540  | 665  |
| 170      | 162                     | 223 | 294 | 375 | 470 | 570  | 700  |
| 180      | 171                     | 235 | 310 | 395 | 495 | 600  | 735  |
| 190      | 180                     | 247 | 326 | 415 | 520 | 630  | 770  |
| 200      | 189                     | 260 | 342 | 435 | 545 | 660  | 805  |
| 210      | 198                     | 273 | 358 | 455 | 570 | 690  |      |
| 220      | 207                     | 286 | 374 | 475 | 590 | 720  | 870  |
| 230      |                         |     | 390 | 495 | 615 | 750  | 905  |
| 240      |                         |     | 406 | 515 | 640 | 780  | 940  |
| 250      |                         |     | 422 | 535 | 665 | 810  | 975  |
| 260      |                         |     | 438 | 555 | 690 | 840  | 1010 |
| 280      |                         |     |     |     |     | 900  | 1080 |
| 300      |                         |     |     |     |     | 960  | 1150 |
| 320      |                         |     |     |     |     | 1020 | 1270 |
| 340      |                         |     |     |     |     | 1080 | 1340 |
| 350      |                         |     |     |     |     | 1110 | 1375 |
| 360      |                         |     |     |     |     | 1140 | 1410 |

Metric DIN 931 Hexagon Head Cap Screws/Bolts are externally threaded fasteners with a hexagonal washer faced head and a chamfered tip to facilitate mating with an internally threaded component. DIN 931 hex screws have a partially threaded shank and are manufactured to very strict tolerances. Unique Fasteners offers one of the most complete ranges of metric screws, bolts and other inch and metric industrial fasteners for immediate delivery from stock. The following sizes of metric DIN 931 Hexagon Head Cap Screws/Bolts are available for immediate shipping from stock: Diameters ranging from M5 to M52 in A2 and marine grade A4 stainless steel as well as aluminum, brass nylon and steel.

DIN (**D**eutsches **I**nstitut für **N**ormung - German Institute for Standardization) standards are issued for a variety of components including industrial fasteners as Metric DIN 931 Hexagon Head Cap Screws/Bolts. The DIN standards remain common in Germany, Europe and globally even though the transition to ISO standards is taking place. DIN standards continue to be used for parts which do not have ISO equivalents or for which there is no need for standardization. IN this case the ISO equivalent for DIN 931 is ISO 4014.