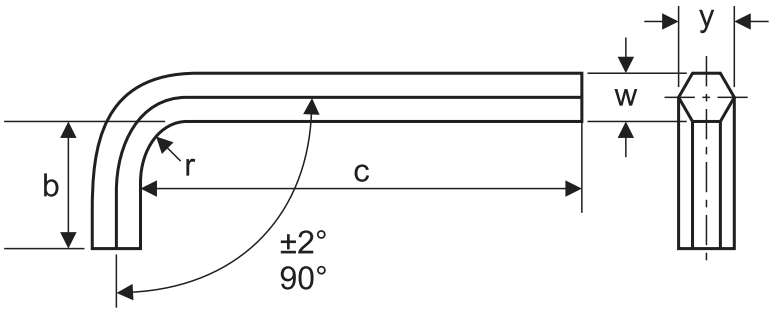


## DIN 911 Hexagon Wrench Keys (Metric)

| Socket size | Hexagon width across flats w | | Hexagon width across corners y | | Length of short arm b | | Length oflong arm c | | | | Radius of bend r | Torsion shear strength minimum | Torsion yield strength minimum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Short Series | | Long Series | | | | |
| | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | min. | Nm | Nm |
| 0.71 | 0.711 | 0.682 | 0.798 | 0.762 | 8 | 3 | 34 | 28 | 69 | 63 | 1.5 | 0.13 | 0.12 |
| 0.89 | 0.899 | 0.864 | 0.998 | 0.960 | 11 | 6 | 34 | 28 | 71 | 65 | 1.5 | 0.27 | 0.24 |
| 1.27 | 1.270 | 1.231 | 1.422 | 1.372 | 16 | 11 | 44 | 39 | 75 | 69 | 1.5 | 0.79 | 0.68 |
| 1.50 | 1.500 | 1.455 | 1.690 | 1.640 | 14 | 13 | 45 | 43 | 78 | 78 | 1.5 | 1.20 | 1.02 |
| 2.00 | 2.000 | 1.955 | 2.250 | 2.200 | 16 | 15 | 50 | 48 | 83 | 81 | 2.0 | 3.00 | 2.70 |
| 2.50 | 2.500 | 2.455 | 2.820 | 2.770 | 18 | 17 | 56 | 53 | 90 | 87 | 2.5 | 6.20 | 5.40 |
| 3.00 | 3.000 | 2.940 | 3.399 | 3.340 | 20 | 18 | 63 | 60 | 100 | 97 | 3.0 | 10.50 | 9.10 |
| 4.00 | 4.000 | 3.940 | 4.532 | 4.470 | 25 | 23 | 70 | 66 | 106 | 102 | 4.0 | 24.90 | 21.70 |
| 5.00 | 5.000 | 4.840 | 5.690 | 5.630 | 28 | 26 | 80 | 76 | 118 | 114 | 5.0 | 48.80 | 42.50 |
| 6.00 | 6.000 | 5.192 | 6.828 | 6.760 | 32 | 30 | 90 | 86 | 140 | 136 | 6.0 | 83.50 | 72.80 |
| 8.00 | 8.000 | 7.920 | 9.136 | 9.030 | 36 | 34 | 100 | 95 | 160 | 155 | 8.0 | 199.00 | 173.00 |
| 10.00 | 10.000 | 9.920 | 11.470 | 11.340 | 40 | 38 | 112 | 106 | 170 | 164 | 10.0 | 386.00 | 336.00 |
| 12.00 | 12.000 | 11.920 | 13.764 | 13.590 | 45 | 43 | 125 | 119 | 212 | 206 | 12.0 | 634.00 | 551.00 |
| 14.00 | 14.000 | 13.900 | 16.058 | 15.880 | 56 | 53 | 140 | 133 | 236 | 229 | 14.0 | 995.00 | 867.00 |
| 17.00 | 17.000 | 16.800 | 19.499 | 19.300 | 63 | 60 | 160 | 152 | 250 | 242 | 17.0 | 1710.00 | 1490.00 |
| 19.00 | 19.000 | 18.900 | 21.793 | 21.580 | 70 | 67 | 180 | 171 | 280 | 271 | 19.0 | 2380.00 | 2070.00 |

## DIN 911 Hexagon Wrench Keys (Imperial)

| Socket size | Hexagon width across flats w | | Hexagon width across corners y | | Length of short arm b | | Length oflong arm c | | | | Radius of bend r | Torsion shear strength minimum | Torsion yield strength minimum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Short Series | | Long Series | | | | |
| | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | min. | lb. in. | lb. in. |
| 0.028 | 0.0280 | 0.0275 | 0.0314 | 0.0300 | 0.312 | 0.125 | 1.312 | 1.125 | 2.688 | 2.500 | 0.062 | 1.2 | 1.1 |
| 0.035 | 0.0350 | 0.0345 | 0.0393 | 0.0378 | 0.438 | 0.250 | 1.312 | 1.125 | 2.766 | 2.578 | 0.062 | 2.4 | 2.1 |
| 0.050 | 0.0500 | 0.0490 | 0.0560 | 0.0540 | 0.625 | 0.438 | 1.750 | 1.562 | 2.938 | 2.750 | 0.062 | 7.0 | 6.0 |
| 1/16 | 0.0625 | 0.0615 | 0.0701 | 0.0680 | 0.656 | 0.468 | 1.844 | 1.656 | 3.094 | 2.906 | 0.062 | 12.0 | 11.0 |
| 5/64 | 0.0781 | 0.0771 | 0.0880 | 0.0859 | 0.703 | 0.516 | 1.969 | 1.781 | 3.281 | 3.094 | 0.078 | 26.0 | 23.0 |
| 3/32 | 0.0938 | 0.0927 | 0.1058 | 0.1035 | 0.750 | 0.562 | 2.094 | 1.906 | 3.469 | 3.281 | 0.094 | 46.0 | 40.0 |
| 7/64 | 0.1094 | 0.1079 | 0.1238 | 0.1210 | 0.797 | 0.609 | 2.219 | 2.031 | 3.656 | 3.469 | 0.109 | 73.0 | 63.0 |
| 1/8 | 0.1250 | 0.1235 | 0.1418 | 0.1390 | 0.844 | 0.656 | 2.344 | 2.156 | 3.844 | 3.656 | 0.125 | 108.0 | 94.0 |
| 9/64 | 0.1406 | 0.1391 | 0.1593 | 0.1566 | 0.891 | 0.703 | 2.469 | 2.281 | 4.031 | 3.844 | 0.141 | 154.0 | 134.0 |
| 5/32 | 0.1562 | 0.1547 | 0.1774 | 0.1745 | 0.938 | 0.750 | 2.594 | 2.406 | 4.219 | 4.031 | 0.156 | 210.0 | 183.0 |
| 3/16 | 0.1875 | 0.1860 | 0.2135 | 0.2105 | 1.031 | 0.844 | 2.844 | 2.656 | 4.594 | 4.406 | 0.188 | 364.0 | 317.0 |
| 7/32 | 0.2187 | 0.2172 | 0.2490 | 0.2460 | 1.125 | 0.938 | 3.094 | 2.906 | 4.969 | 4.781 | 0.219 | 580.0 | 502.0 |
| 1/4 | 0.2500 | 0.2485 | 0.2845 | 0.2815 | 1.219 | 1.031 | 3.344 | 3.156 | 5.344 | 5.156 | 0.250 | 860.0 | 750.0 |
| 5/16 | 0.3125 | 0.3110 | 0.3570 | 0.3531 | 1.344 | 1.156 | 3.844 | 3.656 | 6.094 | 5.906 | 0.312 | 1685.0 | 1465.0 |
| 3/8 | 0.3750 | 0.3735 | 0.4285 | 0.4238 | 1.469 | 1.281 | 4.344 | 4.156 | 6.844 | 6.656 | 0.375 | 2900.0 | 2520.0 |
| 7/16 | 0.4375 | 0.4355 | 0.5005 | 0.4944 | 1.594 | 1.406 | 4.844 | 4.656 | 7.594 | 7.406 | 0.438 | 4400.0 | 3860.0 |
| 1/2 | 0.5000 | 0.4975 | 0.5715 | 0.5650 | 1.719 | 1.531 | 5.344 | 5.156 | 8.344 | 8.156 | 0.500 | 6600.0 | 5750.0 |
| 9/16 | 0.5625 | 0.5600 | 0.6420 | 0.6356 | 1.844 | 1.656 | 5.844 | 5.656 | 9.904 | 8.906 | 0.562 | 9200.0 | 8000.0 |
| 5/8 | 0.6250 | 0.6225 | 0.7146 | 0.7080 | 1.969 | 1.781 | 6.344 | 6.156 | 9.844 | 9.656 | 0.625 | 12650.0 | 11000.0 |
| 3/4 | 0.7500 | 0.7470 | 0.8580 | 0.8512 | 2.219 | 2.031 | 7.344 | 7.156 | 11.344 | 11.156 | 0.750 | 20800.0 | 18100.0 |
| 7/8 | 0.8750 | 0.8720 | 1.0020 | 0.9931 | 2.469 | 2.284 | 8.344 | 8.156 | 12.844 | 12.656 | 0.875 | 29200.0 | 25400.0 |
| 1 | 1.0000 | 0.9970 | 1.1470 | 1.1350 | 2.719 | 2.531 | 9.344 | 9.156 | 14.344 | 14.156 | 1.000 | 43700.0 | 38000.0 |
| 1.1/4 | 1.2500 | 1.2430 | - | - | 3.250 | 2.750 | 11.500 | 11.000 | - | - | 1.250 | 71900.0 | 62500.0 |
| 1.1/2 | 1.5000 | 1.4930 | - | - | 3.750 | 3.250 | 13.500 | 13.000 | - | - | 1.500 | 12400.0 | 108000.0 |
| 1.3/4 | 1.7500 | 1.7430 | - | - | 4.250 | 3.750 | 15.500 | 15.000 | - | - | 1.750 | 198000.0 | 172000.0 |
| 2 | 2.0000 | 1.9930 | - | - | 4.750 | 4.250 | 17.500 | 17.000 | - | - | 2.000 | 276000.0 | 240000.0 |