## HEX CAP SCREWS



| Nominal Diameter |  | D |  | WF |  |  | WC |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Body Diameter |  | Width Across <br> Flats |  |  | Width <br> Across Corners |  |
| Fractional | Decimal | Max | Min | Basic | Max | Min | Max | Min |
| 1/4 | 0.2500 | 0.2500 | 0.2450 | 7/16 | 0.438 | 0.428 | 0.505 | 0.488 |
| 5/16 | 0.3125 | 0.3125 | 0.3065 | 1/2 | 0.500 | 0.489 | 0.577 | 0.557 |
| 3/8 | 0.3750 | 0.3750 | 0.3690 | 9/16 | 0.562 | 0.551 | 0.650 | 0.628 |
| 7/16 | 0.4375 | 0.4375 | 0.4305 | 5/8 | 0.625 | 0.612 | 0.722 | 0.698 |
| 1/2 | 0.5000 | 0.5000 | 0.4930 | 3/4 | 0.750 | 0.736 | 0.866 | 0.840 |
| 9/16 | 0.5625 | 0.5625 | 0.5545 | 13/16 | 0.812 | 0.798 | 0.938 | 0.910 |
| 5/8 | 0.6250 | 0.6250 | 0.6170 | 15/16 | 0.938 | 0.922 | 1.083 | 1.051 |
| 3/4 | 0.7500 | 0.7500 | 0.7410 | 1-1/8 | 1.125 | 1.100 | 1.299 | 1.254 |
| 7/8 | 0.8750 | 0.8750 | 0.8660 | 1-5/16 | 1.312 | 1.285 | 1.516 | 1.465 |
| 1 | 1.0000 | 1.0000 | 0.9900 | 1-1/2 | 1.500 | 1.469 | 1.732 | 1.675 |
| 1-1/8 | 1.1250 | 1.1250 | 1.1140 | 1-11/16 | 1.688 | 1.631 | 1.949 | 1.859 |
| 1-1/4 | 1.2500 | 1.2500 | 1.2390 | 1-7/8 | 1.875 | 1.812 | 2.165 | 2.066 |
| 1-3/8 | 1.3750 | 1.3750 | 1.3630 | 2-1/16 | 2.062 | 1.994 | 2.382 | 2.273 |
| 1-1/2 | 1.5000 | 1.5000 | 1.4880 | 2-1/4 | 2.250 | 2.175 | 2.598 | 2.480 |
| 1-3/4 | 1.7500 | 1.7500 | 1.7380 | 2-5/8 | 2.625 | 2.538 | 3.031 | 2.893 |
| 2 | 2.0000 | 2.0000 | 1.9880 | 3 | 3.000 | 2.900 | 3.464 | 3.306 |
| 2-1/4 | 2.2500 | 2.2500 | 2.2380 | 3-3/8 | 3.375 | 3.262 | 3.897 | 3.719 |
| 2-1/2 | 2.5000 | 2.5000 | 2.4880 | 3-3/4 | 3.750 | 3.625 | 4.330 | 4.133 |
| 2-3/4 | 2.7500 | 2.7500 | 2.7380 | 4-1/8 | 4.125 | 3.988 | 4.763 | 4.546 |
| 3 | 3.0000 | 3.0000 | 2.9880 | 4-1/2 | 4.500 | 4.350 | 5.196 | 4.959 |

Note: L = Length of Screw


## HEX CAP SCREWS <br> Continued

| Nominal Diameter |  | H |  |  | J | Runout of Bearing Surface FIR | R |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Head Height |  |  | Wrenching Height |  | Radius of Fillet |
| Fractional | Decimal | Basic | Max | Min | Min | Max | Min |
| 1/4 | 0.2500 | 5/32 | 0.163 | 0.150 | 0.106 | 0.010 | 0.015 |
| 5/16 | 0.3125 | 13/64 | 0.211 | 0.195 | 0.140 | 0.011 | 0.015 |
| 3/8 | 0.3750 | 15/64 | 0.243 | 0.226 | 0.160 | 0.012 | 0.015 |
| 7/16 | 0.4375 | 9/32 | 0.291 | 0.272 | 0.195 | 0.013 | 0.015 |
| 1/2 | 0.5000 | 5/16 | 0.323 | 0.302 | 0.215 | 0.014 | 0.015 |
| 9/16 | 0.5625 | 23/64 | 0.371 | 0.348 | 0.250 | 0.015 | 0.020 |
| 5/8 | 0.6250 | 25/64 | 0.403 | 0.378 | 0.269 | 0.017 | 0.020 |
| 3/4 | 0.7500 | 15/32 | 0.483 | 0.455 | 0.324 | 0.020 | 0.020 |
| 7/8 | 0.8750 | 35/64 | 0.563 | 0.531 | 0.378 | 0.023 | 0.040 |
| 1 | 1.0000 | 39/64 | 0.627 | 0.591 | 0.416 | 0.026 | 0.060 |
| 1-1/8 | 1.1250 | 11/16 | 0.718 | 0.658 | 0.461 | 0.029 | 0.060 |
| 1-1/4 | 1.2500 | 25/32 | 0.813 | 0.749 | 0.530 | 0.033 | 0.060 |
| 1-3/8 | 1.3750 | 27/32 | 0.878 | 0.810 | 0.569 | 0.036 | 0.060 |
| 1-1/2 | 1.5000 | 15/16 | 0.974 | 0.902 | 0.640 | 0.039 | 0.060 |
| 1-3/4 | 1.7500 | 1-3/32 | 1.134 | 1.054 | 0.748 | 0.046 | 0.060 |
| 2 | 2.0000 | 1-7/32 | 1.263 | 1.175 | 0.825 | 0.052 | 0.060 |
| 2-1/4 | 2.2500 | 1-3/8 | 1.423 | 1.327 | 0.933 | 0.059 | 0.060 |
| 2-1/2 | 2.5000 | 1-17/32 | 1.583 | 1.479 | 1.042 | 0.065 | 0.060 |
| 2-3/4 | 2.7500 | 1-11/16 | 1.744 | 1.632 | 1.151 | 0.072 | 0.060 |
| 3 | 3.0000 | 1-7/8 | 1.935 | 1.815 | 1.290 | 0.079 | 0.060 |

Note: L = Length of Screw


| Nominal Diameter |  | D | WF |  |  | WC |  | H |  |  | R |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Body Dia | Width Across Flats |  |  | Width <br> Across <br> Corners |  | Head <br> Height |  |  | Radius of Fillet |  |
| Fractional | Decimal | Max | Basic | Max | Min | Max | Min | Basic | Max | Min | Max | Min |
| 1/4 | 0.2500 | 0.260 | 7/16 | 0.438 | 0.425 | 0.505 | 0.484 | 11/64 | 0.188 | 0.150 | 0.03 | 0.01 |
| 5/16 | 0.3125 | 0.324 | 1/2 | 0.500 | 0.484 | 0.577 | 0.552 | 7/32 | 0.235 | 0.195 | 0.03 | 0.01 |
| 3/8 | 0.3750 | 0.388 | 9/16 | 0.562 | 0.544 | 0.650 | 0.620 | 1/4 | 0.268 | 0.226 | 0.03 | 0.01 |
| 7/16 | 0.4375 | 0.452 | 5/8 | 0.625 | 0.603 | 0.722 | 0.687 | 19/64 | 0.316 | 0.272 | 0.03 | 0.01 |
| 1/2 | 0.5000 | 0.515 | 3/4 | 0.750 | 0.725 | 0.866 | 0.826 | 11/32 | 0.364 | 0.302 | 0.03 | 0.01 |
| 5/8 | 0.6250 | 0.642 | 15/16 | 0.938 | 0.906 | 1.083 | 1.033 | 27/64 | 0.444 | 0.378 | 0.06 | 0.02 |
| 3/4 | 0.7500 | 0.768 | 1-1/8 | 1.125 | 1.088 | 1.299 | 1.240 | 1/2 | 0.524 | 0.455 | 0.06 | 0.02 |
| 7/8 | 0.8750 | 0.895 | 1-5/16 | 1.312 | 1.269 | 1.516 | 1.447 | 37/64 | 0.604 | 0.531 | 0.06 | 0.02 |
| 1 | 1.0000 | 1.022 | 1-1/2 | 1.500 | 1.450 | 1.732 | 1.653 | 43/64 | 0.700 | 0.591 | 0.09 | 0.03 |
| 1-1/8 | 1.1250 | 1.149 | 1-11/16 | 1.688 | 1.631 | 1.949 | 1.859 | 3/4 | 0.780 | 0.658 | 0.09 | 0.03 |
| 1-1/4 | 1.2500 | 1.277 | 1-7/8 | 1.875 | 1.812 | 2.165 | 2.066 | 27/32 | 0.876 | 0.749 | 0.09 | 0.03 |
| 1-3/8 | 1.3750 | 1.404 | 2-1/16 | 2.062 | 1.994 | 2.382 | 2.273 | 29/32 | 0.940 | 0.810 | 0.09 | 0.03 |
| 1-1/2 | 1.5000 | 1.531 | 2-1/4 | 2.250 | 2.175 | 2.598 | 2.480 | 1 | 1.036 | 0.902 | 0.09 | 0.03 |
| 1-3/4 | 1.7500 | 1.785 | 2-5/8 | 2.625 | 2.538 | 3.031 | 2.893 | 1-5/32 | 1.196 | 1.054 | 0.12 | 0.04 |
| 2 | 2.0000 | 2.039 | 3 | 3.000 | 2.900 | 3.464 | 3.306 | 1-11/32 | 1.388 | 1.175 | 0.12 | 0.04 |
| 2-1/4 | 2.2500 | 2.305 | 3-3/8 | 3.375 | 3.262 | 3.897 | 3.719 | 1-1/2 | 1.548 | 1.327 | 0.19 | 0.06 |
| 2-1/2 | 2.5000 | 2.559 | 3-3/4 | 3.750 | 3.625 | 4.330 | 4.133 | 1-21/32 | 1.708 | 1.479 | 0.19 | 0.06 |
| 2-3/4 | 2.7500 | 2.827 | 4-1/8 | 4.125 | 3.988 | 4.763 | 4.546 | 1-13/16 | 1.869 | 1.632 | 0.19 | 0.06 |
| 3 | 3.0000 | 3.081 | 4-1/2 | 4.500 | 4.350 | 5.196 | 4.959 | 2 | 2.060 | 1.815 | 0.19 | 0.06 |
| 3-1/4 | 3.2500 | 3.335 | 4-7/8 | 4.875 | 4.712 | 5.629 | 5.372 | 2-3/16 | 2.251 | 1.936 | 0.19 | 0.06 |
| 3-1/2 | 3.5000 | 3.589 | 5-1/4 | 5.250 | 5.075 | 6.062 | 5.786 | 2-5/16 | 2.380 | 2.057 | 0.19 | 0.06 |
| 3-3/4 | 3.7500 | 3.858 | 5-5/8 | 5.625 | 5.437 | 6.495 | 6.198 | 2-1/2 | 2.572 | 2.241 | 0.19 | 0.06 |
| 4 | 4.000 | 4.111 | 6 | 6.000 | 5.800 | 6.928 | 6.612 | 2-11/16 | 2.764 | 2.424 | 0.19 | 0.06 |

Note: L = Length of Bolt

