



## UNC Hex Bolt Properties

# Hex Bolts

Tightening Torque

| UNC - RECOMMENDED TIGHTENING TORQUE |             |  |      |  |      |
|-------------------------------------|-------------|--|------|--|------|
| Nominal Size                        | TPI<br>(mm) | Recommended Tightening Torque<br>Grade 5 |      | Recommended Tightening Torque<br>Grade 8 |      |
|                                     |             | Nm                                       | lbft | Nm                                       | lbft |
| 1/4"                                | 20          | 9.5                                      | 7    | 14.0                                     | 10   |
| 5/16"                               | 18          | 20.0                                     | 15   | 28.5                                     | 21   |
| 3/8"                                | 16          | 36.0                                     | 27   | 51.5                                     | 38   |
| 7/16"                               | 14          | 59.0                                     | 43   | 81.0                                     | 60   |
| 1/2"                                | 13          | 90.0                                     | 66   | 125.0                                    | 92   |
| 9/16"                               | 12          | 129.0                                    | 95   | 180.0                                    | 133  |
| 5/8"                                | 11          | 176.0                                    | 130  | 248.0                                    | 183  |
| 3/4"                                | 10          | 312.0                                    | 230  | 441.0                                    | 325  |
| 7/8"                                | 9           | 502.0                                    | 370  | 709.0                                    | 523  |
| 1"                                  | 8           | 760.0                                    | 560  | 1064.0                                   | 785  |
| 1 1/8"                              | 7           | 935.5                                    | 690  | 1513.0                                   | 1116 |
| 1 1/4"                              | 7           | 1316.5                                   | 971  | 2135.0                                   | 1575 |
| 1 3/8"                              | 6           | 1727.0                                   | 1274 | 2800.0                                   | 2065 |
| 1 1/2"                              | 6           | 2291.0                                   | 1690 | 3715.0                                   | 2740 |





## UNF Hex Bolt Properties

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Tightening Torque

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|-------------------------------------|-------------|--|------|--|------|
| Nominal Size                        | TPI<br>(mm) | Recommended Tightening Torque<br>Grade 5 |      | Recommended Tightening Torque<br>Grade 8 |      |
|                                     |             | Nm                                       | lbft | Nm                                       | lbft |
| 1/4"                                | 28          | 11.0                                     | 8    | 16.0                                     | 12   |
| 5/16"                               | 24          | 23.0                                     | 17   | 31.0                                     | 23   |
| 3/8"                                | 24          | 41.0                                     | 30   | 58.0                                     | 43   |
| 7/16"                               | 20          | 65.0                                     | 48   | 91.0                                     | 67   |
| 1/2"                                | 20          | 100.0                                    | 74   | 141.0                                    | 104  |
| 9/16"                               | 18          | 142.0                                    | 105  | 202.0                                    | 149  |
| 5/8"                                | 18          | 203.0                                    | 150  | 281.0                                    | 207  |
| 3/4"                                | 16          | 352.5                                    | 260  | 492.0                                    | 363  |
| 7/8"                                | 14          | 556.0                                    | 410  | 782.0                                    | 577  |
| 1"                                  | 12          | 827.0                                    | 610  | 1165.0                                   | 859  |
| 1 SAE                               | 14          | 847.0                                    | 625  | 1197.0                                   | 883  |
| 1 1/8"                              | 12          | 1047.0                                   | 772  | 1697.5                                   | 1252 |
| 1 1/4"                              | 12          | 1458.0                                   | 1075 | 2365.0                                   | 1744 |
| 1 3/8"                              | 12          | 1965.0                                   | 1449 | 3187.5                                   | 2351 |
| 1 1/2"                              | 12          | 2578.0                                   | 1901 | 4180.0                                   | 3083 |

