



# HEAVY HEX BOLTS - WEIGHT PER 100 PIECES

(Approximate Weight of 100 Steel Bolts in Pounds)

| LENGTH | DIAMETER |      |      |      |      |       |       |       |       |       |      |
|--------|----------|------|------|------|------|-------|-------|-------|-------|-------|------|
|        | 1/2      | 5/8  | 3/4  | 7/8  | 1    | 1 1/8 | 1 1/4 | 1 3/8 | 1 1/2 | 1 3/4 | 2    |
| 1      | 10.6     | 18.3 | —    | —    | —    | —     | —     | —     | —     | —     | —    |
| 1 1/4  | 11.7     | 20.0 | —    | —    | —    | —     | —     | —     | —     | —     | —    |
| 1 1/2  | 12.8     | 21.7 | 33.9 | 49.5 | 69.6 | —     | —     | —     | —     | —     | —    |
| 1 3/4  | 14.1     | 23.5 | 36.5 | 53.0 | 74.2 | —     | —     | —     | —     | —     | —    |
| 2      | 15.5     | 25.6 | 39.0 | 56.6 | 78.8 | —     | —     | —     | —     | —     | —    |
| 2 1/4  | 16.8     | 27.7 | 42.0 | 60.1 | 83.4 | —     | —     | —     | —     | —     | —    |
| 2 1/2  | 18.2     | 29.8 | 45.0 | 64.2 | 88.0 | 115   | 152   | 183   | 230   | 339   | 469  |
| 2 3/4  | 19.5     | 31.9 | 48.1 | 68.3 | 94.0 | 121   | 159   | 191   | 241   | 353   | 488  |
| 3      | 20.9     | 34.0 | 51.1 | 72.4 | 99.0 | 128   | 167   | 200   | 252   | 367   | 506  |
| 3 1/4  | 22.2     | 36.0 | 54.1 | 76.6 | 104  | 134   | 175   | 211   | 262   | 382   | 525  |
| 3 1/2  | 23.6     | 38.1 | 57.1 | 80.7 | 110  | 141   | 183   | 221   | 275   | 396   | 544  |
| 3 3/4  | 24.9     | 40.2 | 60.1 | 84.8 | 115  | 148   | 192   | 232   | 287   | 411   | 563  |
| 4      | 26.2     | 42.3 | 63.2 | 88.9 | 120  | 155   | 200   | 242   | 300   | 428   | 582  |
| 4 1/4  | 27.6     | 44.4 | 66.2 | 93.0 | 126  | 162   | 209   | 253   | 312   | 445   | 601  |
| 4 1/2  | 28.9     | 46.5 | 69.2 | 98.0 | 131  | 168   | 217   | 263   | 325   | 462   | 623  |
| 4 3/4  | 30.3     | 48.6 | 72.2 | 102  | 137  | 175   | 225   | 274   | 337   | 479   | 646  |
| 5      | 31.6     | 50.7 | 75.2 | 106  | 142  | 182   | 234   | 284   | 350   | 496   | 668  |
| 5 1/4  | 33.0     | 52.8 | 78.3 | 110  | 147  | 189   | 242   | 295   | 362   | 513   | 690  |
| 5 1/2  | 34.3     | 54.9 | 81.3 | 114  | 153  | 196   | 251   | 305   | 375   | 530   | 712  |
| 5 3/4  | 35.7     | 57.0 | 84.3 | 118  | 158  | 202   | 259   | 315   | 387   | 547   | 735  |
| 6      | 37.0     | 59.1 | 87.3 | 122  | 163  | 209   | 267   | 326   | 400   | 564   | 757  |
| 6 1/4  | 38.1     | 60.8 | 89.9 | 126  | 168  | 215   | 275   | 335   | 411   | 578   | 776  |
| 6 1/2  | 39.4     | 62.9 | 92.9 | 130  | 173  | 222   | 283   | 346   | 432   | 595   | 798  |
| 6 3/4  | 40.8     | 65.0 | 96.0 | 134  | 179  | 229   | 291   | 356   | 436   | 612   | 820  |
| 7      | 42.1     | 67.1 | 99.0 | 138  | 184  | 235   | 300   | 367   | 448   | 630   | 842  |
| 7 1/4  | 43.5     | 69.2 | 102  | 142  | 189  | 242   | 308   | 377   | 461   | 647   | 865  |
| 7 1/2  | 44.8     | 71.3 | 105  | 146  | 195  | 249   | 317   | 388   | 473   | 663   | 887  |
| 7 3/4  | 46.2     | 73.4 | 108  | 151  | 200  | 256   | 325   | 398   | 486   | 681   | 909  |
| 8      | 47.5     | 75.5 | 111  | 155  | 206  | 263   | 333   | 409   | 498   | 698   | 923  |
| 8 1/2  | 50.2     | 79.7 | 117  | 163  | 216  | 276   | 350   | 429   | 523   | 732   | 976  |
| 9      | 52.9     | 83.9 | 123  | 171  | 227  | 290   | 367   | 451   | 548   | 766   | 1020 |
| 9 1/2  | 55.6     | 88.1 | 129  | 179  | 238  | 303   | 384   | 471   | 573   | 801   | 1065 |
| 10     | 58.3     | 92.3 | 135  | 188  | 249  | 317   | 401   | 493   | 598   | 834   | 1110 |
| 10 1/2 | 61.0     | 96.4 | 142  | 196  | 259  | 331   | 417   | 513   | 623   | 869   | 1154 |
| 11     | 63.6     | 100  | 148  | 204  | 270  | 344   | 434   | 535   | 648   | 902   | 1198 |
| 11 1/2 | 66.3     | 105  | 154  | 212  | 281  | 358   | 451   | 555   | 673   | 936   | 1244 |
| 12     | 69.0     | 109  | 160  | 221  | 291  | 371   | 468   | 577   | 698   | 970   | 1287 |
| 12 1/2 | 71.7     | 113  | 166  | 229  | 302  | 385   | 484   | 597   | 723   | 1005  | 1331 |
| 13     | 74.4     | 117  | 172  | 237  | 313  | 399   | 501   | 619   | 748   | 1039  | 1376 |
| 13 1/2 | 77.1     | 121  | 178  | 245  | 324  | 412   | 518   | 639   | 773   | 1073  | 1420 |
| 14     | 79.8     | 126  | 184  | 254  | 334  | 426   | 535   | 661   | 798   | 1105  | 1465 |
| 14 1/2 | 82.5     | 130  | 190  | 262  | 345  | 449   | 552   | 682   | 823   | 1124  | 1510 |
| 15     | 85.2     | 134  | 196  | 270  | 356  | 453   | 568   | 703   | 848   | 1175  | 1554 |
| 15 1/2 | 87.9     | 138  | 202  | 278  | 367  | 467   | 585   | 724   | 873   | 1209  | 1600 |
| 16     | 90.5     | 142  | 208  | 286  | 377  | 480   | 602   | 744   | 898   | 1243  | 1645 |

WEIGHT CONVERSION TABLE

| MATERIALS                             | CONVERSION FACTOR | MATERIALS             | CONVERSION FACTOR | MATERIALS                                | CONVERSION FACTOR |
|---------------------------------------|-------------------|-----------------------|-------------------|------------------------------------------|-------------------|
| Type 304 Stainless Steel.....         | 1.011             | Phosphor Bronze.....  | 1.124             | Inconel*.....                            | 1.085             |
| Type 410 Stainless Steel.....         | 0.989             | Manganese Bronze..... | 1.067             | Aluminum.....                            | 0.353             |
| Leaded Brass (Free Cutting Brass).... | 1.085             | Aluminum Bronze.....  | 1.042             | Titanium Alloy.....                      | 0.576             |
| Cold Heading Brass (Yellow Brass).... | 1.082             | Copper.....           | 1.145             | Hastelloy C**.....                       | 1.146             |
| Naval Brass.....                      | 1.074             | Cupro Nickel.....     | 1.141             | Hastelloy B**.....                       | 1.187             |
| Low Silicon Bronze.....               | 1.117             | Monel Metal*.....     | 1.127             | *TRADEMARK OF INTERNATIONAL NICKEL CORP. |                   |
| High Silicon Bronze.....              | 1.088             | K-Monel Metal*.....   | 1.082             | **TRADEMARK OF CABOT CORP.               |                   |

NOTE: The weights listed above are estimated on regular steel. To obtain the approximate weight for heavy hex bolts in another material, multiply the weight per 100 pieces shown above by the conversion factor for the desired material listed in the "Weight Conversion Table"