

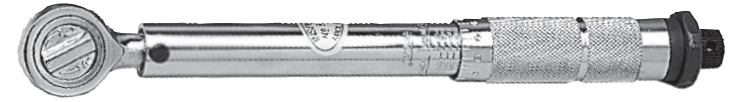
## CONVERSION TABLES

| Inch Pounds (in.lbs) | Kilo-gram Meters (Kgm or mkg) | Newton Meters (Nm) | Newton Meters (Nm) | Inch Pounds (in.lbs) | Kilo-gram Meters (Kgm or mkg) | Kilo-gram Meters (Kgm or mkg) | Newton Meters (Nm) | Inch Pounds (in.lbs) |
|----------------------|-------------------------------|--------------------|--------------------|----------------------|-------------------------------|-------------------------------|--------------------|----------------------|
| 60                   | 0.69                          | 6.78               | 10                 | 88.56                | 1.02                          | 1                             | 9.81               | 86.76                |
| 120                  | 1.38                          | 13.56              | 20                 | 177.00               | 2.04                          | 2                             | 19.61              | 173.64               |
| 180                  | 2.07                          | 20.34              | 30                 | 265.56               | 3.06                          | 3                             | 29.42              | 260.40               |
| 240                  | 2.76                          | 27.12              | 40                 | 354.00               | 4.08                          | 4                             | 39.23              | 347.16               |
| 300                  | 3.46                          | 33.90              | 50                 | 442.56               | 5.10                          | 5                             | 49.04              | 434.04               |
| 360                  | 4.15                          | 40.68              | 60                 | 531.12               | 6.12                          | 6                             | 58.84              | 520.80               |
| 420                  | 4.84                          | 47.46              | 70                 | 619.56               | 7.14                          | 7                             | 68.65              | 607.56               |
| 480                  | 5.53                          | 54.24              | 80                 | 708.12               | 8.16                          | 8                             | 78.46              | 694.44               |
| 540                  | 6.22                          | 61.02              | 90                 | 796.56               | 9.18                          | 9                             | 88.26              | 781.20               |
| 600                  | 6.91                          | 67.80              | 100                | 885.12               | 10.20                         | 10                            | 98.07              | 867.96               |
| 660                  | 7.60                          | 74.58              | 110                | 973.68               | 11.22                         | 11                            | 107.88             | 954.84               |
| 720                  | 8.29                          | 81.36              | 120                | 1,062.12             | 12.24                         | 12                            | 117.68             | 1,041.60             |
| 780                  | 8.98                          | 88.14              | 130                | 1,150.68             | 13.26                         | 13                            | 127.49             | 1,128.36             |
| 840                  | 9.67                          | 94.92              | 140                | 1,239.12             | 14.28                         | 14                            | 137.30             | 1,215.24             |
| 900                  | 10.37                         | 101.70             | 150                | 1,327.68             | 15.30                         | 15                            | 147.11             | 1,302.00             |
| 960                  | 11.06                         | 108.48             | 160                | 1,416.24             | 16.32                         | 16                            | 156.91             | 1,388.88             |
| 1,020                | 11.75                         | 115.26             | 170                | 1,504.68             | 17.34                         | 17                            | 166.72             | 1,475.64             |
| 1,080                | 12.44                         | 122.04             | 180                | 1,593.24             | 18.36                         | 18                            | 176.53             | 1,562.40             |
| 1,140                | 13.13                         | 128.82             | 190                | 1,681.68             | 19.38                         | 19                            | 186.33             | 1,649.16             |
| 1,200                | 13.82                         | 135.60             | 200                | 1,770.24             | 20.40                         | 20                            | 196.14             | 1,736.04             |
| 1,260                | 14.51                         | 142.38             | 210                | 1,858.80             | 21.42                         | 21                            | 205.95             | 1,822.80             |
| 1,320                | 15.20                         | 149.16             | 220                | 1,947.24             | 22.44                         | 22                            | 215.75             | 1,909.56             |
| 1,380                | 15.89                         | 155.94             | 230                | 2,035.80             | 23.46                         | 23                            | 225.57             | 1,996.44             |
| 1,440                | 16.58                         | 162.72             | 240                | 2,124.24             | 24.48                         | 24                            | 235.37             | 2,083.20             |
| 1,500                | 17.28                         | 169.50             | 250                | 2,212.80             | 25.50                         | 25                            | 245.18             | 2,170.08             |
| 1,560                | 17.97                         | 176.28             | 260                | 2,301.36             | 26.52                         | 26                            | 254.98             | 2,256.96             |
| 1,620                | 18.66                         | 183.06             | 270                | 2,389.80             | 27.54                         | 27                            | 264.79             | 2,343.60             |
| 1,680                | 19.35                         | 189.84             | 280                | 2,478.36             | 28.56                         | 28                            | 274.60             | 2,430.48             |
| 1,740                | 20.04                         | 196.62             | 290                | 2,566.92             | 29.58                         | 29                            | 284.41             | 2,517.24             |
| 1,800                | 20.73                         | 203.40             | 300                | 2,655.48             | 30.60                         | 30                            | 294.22             | 2,604.00             |
| 1,860                | 21.42                         | 210.18             | 310                | 2,744.04             | 31.62                         | 31                            | 304.03             | 2,690.76             |
| 1,920                | 22.11                         | 216.96             | 320                | 2,832.60             | 32.64                         | 32                            | 313.84             | 2,777.52             |
| 1,980                | 22.80                         | 223.74             | 330                | 2,921.16             | 33.66                         | 33                            | 323.65             | 2,864.28             |
| 2,040                | 23.49                         | 230.52             | 340                | 3,009.72             | 34.68                         | 34                            | 333.46             | 2,951.04             |
| 2,100                | 24.19                         | 237.30             | 350                | 3,099.60             | 35.70                         | 35                            | 343.35             | 3,036.60             |
| 2,160                | 24.88                         | 244.08             | 360                | 3,188.16             | 36.72                         | 36                            | 353.16             | 3,123.36             |
| 2,220                | 25.57                         | 250.86             | 370                | 3,276.72             | 37.74                         | 37                            | 362.97             | 3,210.12             |
| 2,280                | 26.26                         | 257.64             | 380                | 3,365.28             | 38.76                         | 38                            | 372.78             | 3,296.88             |
| 2,340                | 26.95                         | 264.42             | 390                | 3,453.84             | 39.78                         | 39                            | 382.59             | 3,383.64             |
| 2,400                | 27.64                         | 271.20             | 400                | 3,542.40             | 40.80                         | 40                            | 392.40             | 3,470.40             |
| 2,460                | 28.33                         | 277.98             | 410                | 3,630.96             | 41.82                         | 41                            | 402.21             | 3,557.16             |
| 2,520                | 29.02                         | 284.76             |                    |                      |                               |                               |                    |                      |
| 2,580                | 29.71                         | 291.54             |                    |                      |                               |                               |                    |                      |
| 2,640                | 30.40                         | 298.32             |                    |                      |                               |                               |                    |                      |
| 2,700                | 31.09                         | 305.10             |                    |                      |                               |                               |                    |                      |
| 2,760                | 31.78                         | 311.88             |                    |                      |                               |                               |                    |                      |
| 2,820                | 32.47                         | 318.66             |                    |                      |                               |                               |                    |                      |
| 2,880                | 33.16                         | 325.44             |                    |                      |                               |                               |                    |                      |
| 2,940                | 33.85                         | 332.22             |                    |                      |                               |                               |                    |                      |
| 3,000                | 34.54                         | 339.00             |                    |                      |                               |                               |                    |                      |
| 3,120                | 35.88                         | 352.56             |                    |                      |                               |                               |                    |                      |
| 3,240                | 37.26                         | 366.12             |                    |                      |                               |                               |                    |                      |
| 3,360                | 38.64                         | 379.68             |                    |                      |                               |                               |                    |                      |
| 3,480                | 40.02                         | 393.24             |                    |                      |                               |                               |                    |                      |
| 3,600                | 41.40                         | 406.80             |                    |                      |                               |                               |                    |                      |

## CONVERSION FORMULAS

|                       |                      |
|-----------------------|----------------------|
| 1 CMKG = 13.883 IN-OZ | 1 dNm = 14.161 IN-OZ |
| 1 CMKG = 0.8677 IN-LB | 1 Nm = 8.8507 IN-LB  |
| 1 MKG = 7.233 FT-LB   | 1 Nm = 0.73756 FT-LB |
| 1 CMKG = 1 CMKG       | 1 KpM = 1 MKG        |
| 1 FT-LB = 12 IN-LB    | 1 MKG = 9.80665 Nm   |

## ADJUSTMENT OF TORQUE SETTING



### HOW TO USE YOUR NEW TORQUE WRENCH

- Balancing wrench in hand with graduations visible unlock knurled handle by turning lock nut counter clockwise. (see fig. 1)
- Set amount of torque required by turning knurled handle to read exact amount on case graduations. Example: 504 in. lbs.
  - Turn knurled handle until the zero graduation on the beveled edge of the knurled handle is lined up with the vertical mark on the case and is even with the 480 in. lbs. graduations.
  - Turn knurled handle clockwise until the "2" graduation on the beveled edge of the handle is in line with the vertical line on the case.
  - Lock handle securely by turning lock nut clockwise. Wrench is now set at 504 in. lbs. and is ready to use. (see fig. 2)
- When setting for metric (KpM), use same procedures as setting for in. lbs.
- Install the proper socket or attachment to the square drive and apply to nut or bolt and pull handle until you feel and/or hear wrench click. Release pull and wrench automatically resets for next operation.

**CAUTION:**  
DO NOT CONTINUE TO PULL AFTER WRENCH RELEASES. USE SPECIAL CARE AT LOW TORQUE SETTINGS THAT PULL STOPS WHEN WRENCH CLICKS.

- If wrench has not been used or has been in storage for some time, operate it several times at a low torque setting which permits special internal lubricants to recoat internal working parts
- When wrench is not in use, keep adjustment at lowest torque setting.
- Do not turn handle below lowest torque setting.

- Do not continue pulling on the wrench after pre-set torque has been reached and the wrench has released. Pressure must be taken off the handle and the wrench allowed to automatically reset itself, continuing to apply pressure after the wrench has released, will result in damage to the part being torqued by applying more than the specified amount of torque.
- Tool is rugged and designed for shop use, but is also a precision measuring instrument and should be treated as such.
- Clean wrench by wiping: Do not immerse in any type of cleaner which may affect special high pressure lube with which the wrench is packed at the factory.
- This torque wrench was calibrated and tested before leaving the factory and is accurate to  $\pm 4\%$ .

**THIS IS A PRECISION MEASURING INSTRUMENT, CALIBRATION AND SERVICING MUST BE DONE REGULARLY AND IS THE OWNERS RESPONSIBILITY.**

Fig. 1

Fig. 2



LOCK NUT ▲