******TOOL MODEL: 4TTL W/ HEX LINK**

**PRESSURE/TORQUE CONVERSION CHART**

**Standard Torque Chart ( For Serial Number F3496 & Higher)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PRESSURE IN PSI** | **FT. LBS.** | **TORQUE IN KGM** | **NM** | **PRESSURE IN BAR** |
| 1500  1600  1800  2000 | 580  618  694  770 | 80  85  96  106 | 786  838  941  1044 | 104  110  124  138 |
| 2200  2400  2600  2800  3000 | 847  924  1001  1078  1155 | 117  128  138  149  160 | 1148  1253  1357  1461  1566 | 152  165  179  193  207 |
| 3200  3400  3600  3800  4000 | 1232  1309  1386  1463  1540 | 170  181  192  202  213 | 1670  1774  1879  1983  2088 | 220  234  248  262  276 |
| 4200  4400  4600  4800  5000 | 1624  1708  1792  1876  1960 | 225  236  248  259  271 | 2201  2315  2429  2543  2657 | 290  303  317  331  345 |
| 5200  5400  5600  5800  6000 | 2031  2102  2173  2244  2315 | 281  291  301  310  320 | 2753  2849  2946  3042  3138 | 358  372  386  400  414 |
| 6200  6400  6600  6800  7000 | 2392  2469  2546  2623  2700 | 331  341  352  363  373 | 3243  3347  3451  3556  3660 | 427  441  455  468  482 |
| 7200  7400  7600  7800  8000 | 2777  2854  2931  3008  3085 | 384  395  405  416  427 | 3765  3869  3973  4078  4182 | 496  510  524  538  552 |
| 8200  8400  8600  8800  9000 | 3163  3241  3319  3397  3475 | 437  448  459  470  481 | 4288  4393  4499  4605  4711 | 565  579  593  607  620 |
| 9200  9400  9600  9800  10000 | 3551  3627  3703  3779  3855 | 491  502  512  523  533 | 4814  4917  5020  5123  5226 | 634  648  662  676  690 |

\* ISO DOCUMENT 9000 REV. 8/6/1998

# IMPORTANT SAFETY INSTRUCTIONS

**WARNING**: Your **TORC TORQUE MACHINE** is a power tool, and as with any power tool, certain safety precautions should be observed to avoid accidents or personal injury. The following tips will assist you.

* **READ ALL INSTRUCTIONS.**
* **KEEP WORK AREA CLEAN AND WELL LIT.**
* **CONSIDER WORK AREA ENVIRONMENT.** Electrical Pumps should never be used in an atmosphere which can be

considered potentially volatile. If there is any doubt, use an air pump. Also note: metal to metal contact can cause sparks, precautions should be taken.

* **AVOID PREMATURE TOOL STARTING.** The Pump Remote Control is for the **TOOL OPERATOR** only.
* **STAY CLEAR DURING OPERATION**. In most cases, the tool will allow “hands free” operation. If the tool must be held or steadied during operation, use alternative means of securing the tool to the application
* **GUARD AGAINST ELECTRIC SHOCK**. Ensure the pump is properly grounded and the proper voltage is being used.
* **STORE IDLE TOOLS**. When not in use, tools and accessories should be properly stored to avoid deterioration.
* **USE THE RIGHT TOOL.** Don’t force small tools or attachments to do the job of a larger tool. Don’t use a tool for purposes not intended.
* **PROPER SAFETY ATTIRE.** When handling/operating hydraulic equipment use work gloves, hard hats, safety shoes and other applicable clothing.
* **USE SAFETY GLASSES.**
* **MOVING EQUIPMENT.** Do not use hydraulic hoses, uni-swivels, pump power or remote cords as means of moving the equipment.
* **MAINTAIN TOOLS WITH CARE.** For top performance, inspect tools, powerpack and accessories for visual damage frequently and always prior to use. Always follow instruction for proper tool and pump maintenance. Refer to the Operations Maintenance Section for further clarification
* **STAY ALERT.** Watch what you are doing. Use Common sense. Do not use power equipment under the influence of any mood altering substances.
* **PRIOR TO OPERATION:**

Ensure that all hydraulic connections are securely connected and there is no leakage.

Verify that the Hydraulic hoses are not kinked or otherwise damaged.

Ensure the square drive and its retainer are fully and securely engaged.

Be certain that all connectors, elbows, fitting and swivels are not bent, loose or damaged.

* **PRIOR TO USE:**

Check sockets for size, quality and flaws. (Do not use if questionable) Cycle tool to ensure proper function.

Locate a solid, secure reaction point.

Be sure the reaction arm retaining clamp is fully engaged. Be sure the hydraulic hoses are free of the reaction point.

Pressurize the system momentarily; if the tool tends to “ride up” or to “creep”, stop and re-adjust the reaction arm to a more solid and secure position.

**NOTE**: Remain clear of the reaction arm during operation and never put body parts between reaction arm and reaction surfaces.

* **ALWAYS USE QUALITY ACCESSORIES**. Always use top quality impact sockets in good condition which are the correct size and fully engage the nut. Hidden flaws, however, remain a possibility which could cause breakage, so stay clear of sockets during operation
* **DO NOT USE** other equipment to enhance performance (Hammer on Socket/Tool)

**NOTE**: TORC Pumps are designed to operate TORC Tools only. Damage may occur to the pump or the product that is being operated due to misuse.

**SAVE THESE INSTRUCTIONS FOR FUTURE USE!**