



**TOOL MODEL: AVANTI 10**

**PRESSURE/TORQUE CONVERSION CHART**

**Standard Torque Chart**

<b>PRESSURE IN PSI</b>	<b>FT.LBS.</b>	<b>TORQUE IN</b>		<b>PRESSURE IN BAR</b>
		<b>KGM</b>	<b>NM</b>	
1500	1800	249	2440	104
1600	1920	266	2603	110
1800	2160	299	2928	124
2000	2400	332	3253	138
2200	2639	365	3577	152
2400	2878	398	3901	165
2600	3117	431	4225	179
2800	3356	464	4549	193
3000	3595	497	4873	207
3200	3834	530	5197	220
3400	4073	563	5521	234
3600	4312	596	5845	248
3800	4551	629	6169	262
4000	4790	662	6493	276
4200	5030	696	6819	290
4400	5270	729	7144	303
4600	5510	762	7469	317
4800	5750	795	7795	331
5000	5990	828	8120	345
5200	6230	862	8445	358
5400	6470	895	8771	372
5600	6710	928	9096	386
5800	6950	961	9421	400
6000	7190	994	9747	414
6200	7429	1027	10071	427
6400	7668	1060	10395	441
6600	7907	1094	10719	455
6800	8146	1127	11043	468
7000	8385	1160	11367	482
7200	8625	1193	11692	496
7400	8865	1226	12017	510
7600	9104	1259	12342	524
7800	9344	1292	12667	538
8000	9584	1325	12992	552
8200	9824	1359	13317	565
8400	10063	1392	13642	579
8600	10303	1425	13966	593
8800	10542	1458	14291	607
9000	10782	1491	14616	620
9200	10974	1518	14877	634
9400	11166	1544	15137	648
9600	11359	1571	15398	662
9800	11551	1597	15658	676
10000	11743	1624	15919	690

## IMPORTANT SAFETY INSTRUCTIONS

**WARNING:** Your **HYTORC 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, tool and accessories should be properly stored to avoid deterioration
  - **USE 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:** Hytorc Pumps are designed to operate Hytorc Tools only. Damage may occur to the pump or the product that is being operated due to misuse.

**SAVE THESE INSTRUCTIONS FOR FUTURE USE!**