



**TOOL MODEL: AVANTI 130**

**PRESSURE/TORQUE CONVERSION CHART**

**Standard Torque Chart**

<b>PRESSURE IN PSI</b>	<b>FT.LBS.</b>	<b>TORQUE IN KGM</b>	<b>NM</b>	<b>PRESSURE IN BAR</b>
1500	19395	2682	26292	104
1600	20742	2869	28118	110
1800	23436	3241	31770	124
2000	26130	3614	35422	138
2200	28840	3989	39096	152
2400	31550	4363	42769	165
2600	34260	4738	46443	179
2800	36970	5113	50117	193
3000	39680	5488	53790	207
3200	42402	5864	57480	220
3400	45124	6241	61170	234
3600	47846	6617	64860	248
3800	50568	6994	68550	262
4000	53290	7370	72240	276
4200	56128	7763	76087	290
4400	58966	8155	79934	303
4600	61804	8547	83782	317
4800	64642	8940	87629	331
5000	67480	9332	91476	345
5200	70216	9711	95185	358
5400	72952	10089	98894	372
5600	75688	10468	102603	386
5800	78424	10846	106312	400
6000	81160	11224	110021	414
6200	84236	11650	114190	427
6400	87312	12075	118360	441
6600	90388	12501	122530	455
6800	93464	12926	126700	468
7000	96540	13351	130870	482
7200	99394	13746	134738	496
7400	102247	14141	138606	510
7600	105101	14535	142475	524
7800	107954	14930	146343	538
8000	110808	15325	150211	552
8200	113578	15708	153967	565
8400	116348	16091	157722	579
8600	119119	16474	161477	593
8800	121889	16857	165232	607
9000	124659	17240	168988	620
9200	127429	17623	172743	634
9400	130199	18007	176498	648
9600	132970	18390	180254	662
9800	135740	18773	184009	676
10000	138510	19156	187764	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 INSTUCTIONS.**
  - **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 andsecure 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!**