



## Tool Model: HY-AVANTI 20 Pressure/Torque Conversion Chart

PRESSURE IN: PSI	TORQUE IN:			PRESSURE IN: BAR
	ft-lbs	KGM	NM	
1500	2805	388	3802	104
1600	2999	415	4065	110
1800	3386	468	4590	124
2000	3773	522	5115	138
2200	4160	575	5640	152
2400	4548	629	6165	165
2600	4935	683	6690	179
2800	5323	736	7215	193
3000	5710	790	7740	207
3200	6105	844	8276	220
3400	6500	899	8811	234
3600	6895	954	9347	248
3800	7290	1008	9882	262
4000	7685	1063	10418	276
4200	8062	1115	10929	290
4400	8440	1167	11441	303
4600	8817	1219	11953	317
4800	9195	1272	12464	331
5000	9572	1324	12976	345
5200	9959	1377	13500	358
5400	10346	1431	14025	372
5600	10733	1484	14550	386
5800	11120	1538	15074	400
6000	11507	1591	15599	414
6200	11892	1645	16120	427
6400	12276	1698	16642	441
6600	12661	1751	17163	455
6800	13045	1804	17684	468
7000	13430	1857	18206	482
7200	13824	1912	18740	496
7400	14218	1966	19274	510
7600	14612	2021	19808	524
7800	15006	2075	20342	538
8000	15400	2130	20876	552
8200	15768	2181	21375	565
8400	16136	2232	21874	579
8600	16504	2293	22373	593
8800	16872	2333	22872	607
9000	17240	2384	23371	620
9200	17656	2442	23935	634
9400	18073	2499	24499	648
9600	18489	2557	25064	662
9800	18906	2615	25628	676
10000	19322	2672	26193	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 any 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 RIGHT TOOL.** Don't force small tools or attachments to do the job of a larger tool. Don't use 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, uniswivels, pump power or remote cords as means of moving the equipment.
- **MAINTAIN TOOLS WITH CARE.** For top performance, inspect tool, powerpack and accessories for visual damage frequently and always prior to use. Always follow instructions 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.  
Insure the square drive and its retainer is fully and securely engaged.  
Ascertain that all connectors, elbows, fittings and swivels are not bent, loose or damaged.
- **PRIOR TO USE.**  
Check Sockets for size, quality and flaws. (Do not use if question able.)  
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 surface.
- **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 break, 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 product that is being operated due to misuse.

**SAVE THESE INSTURCTIONS FOR FUTURE USE!**