

# HYTORC

## TOOL MODEL: AVANTI 10 DUAL PRESSURE/TORQUE CONVERSION CHART

### Standard Torque Chart

PRESSURE IN PSI	TORQUE IN			PRESSURE IN BAR
	FT. LBS.	KGM	NM	
1500	1840	254	2494	104
1600	1964	272	2663	110
1800	2213	306	3000	124
2000	2462	340	3337	138
2200	2709	375	3673	152
2400	2956	409	4008	165
2600	3204	443	4343	179
2800	3451	477	4678	193
3000	3698	511	5013	207
3200	3945	546	5348	220
3400	4192	580	5683	234
3600	4440	614	6018	248
3800	4687	648	6353	262
4000	4934	682	6689	276
4200	5184	717	7027	290
4400	5433	751	7365	303
4600	5683	786	7704	317
4800	5932	820	8042	331
5000	6182	855	8380	345
5200	6430	889	8717	358
5400	6678	924	9053	372
5600	6927	958	9390	386
5800	7175	992	9726	400
6000	7423	1027	10063	414
6200	7674	1061	10403	427
6400	7925	1096	10744	441
6600	8177	1131	11084	455
6800	8428	1166	11425	468
7000	8679	1200	11765	482
7200	8840	1223	11984	496
7400	9001	1245	12202	510
7600	9163	1267	12421	524
7800	9324	1289	12639	538
8000	9485	1312	12858	552
8200	9827	1359	13322	565
8400	10170	1406	13786	579
8600	10512	1454	14250	593
8800	10855	1501	14714	607
9000	11197	1549	15179	620
9200	11449	1583	15520	634
9400	11701	1618	15861	648
9600	11952	1653	16203	662
9800	12204	1688	16544	676
10000	12456	1723	16885	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!