

## HYTORC ICE-3 TORQUE CHART

Pressure	Torque Range	Pressure
PSI	Nm	Bar
1500	603	104
1600	644	110
1800	727	124
2000	809	138
2200	893	152
2400	976	165
2600	1059	179
2800	1142	193
3000	1225	207
3200	1308	220
3400	1391	234
3600	1474	248
3800	1557	262
4000	1640	276
4200	1722	290
4400	1803	303
4600	1885	317
4800	1967	331
5000	2048	345
5200	2130	358
5400	2211	372
5600	2292	386
5800	2374	400
6000	2455	414
6200	2534	427
6400	2613	441
6600	2692	455
6800	2772	468
7000	2851	482
7200	2929	496
7400	3008	510
7600	3087	524
7800	3165	538
8000	3244	552
8200	3322	565
8400	3400	579
8600	3478	593
8800	3556	607
9000	3634	620
9200	3712	634
9400	3791	648
9600	3869	662
9800	3947	676
10000	4025	690



**YOU MIGHT ALSO BE INTERESTED IN THESE HYTORC TORQUE WRENCHES:**



**AVANTI**



**MXT**



**EDGE**



**STEALTH**



**VERSA**



**XLCT**



**YOUR EXPERT PARTNER  
IN BOLTING SOLUTIONS**

- ▮ Hydraulic torque wrenches
- ▮ Pneumatic torque wrenches
- ▮ Battery torque wrenches
- ▮ Electric torque wrenches
- ▮ Tensioning tools
- ▮ Hand torque tools
- ▮ Torque reaction arms and balancers
- ▮ Torque measurement and calibration instruments
- ▮ Impact sockets and accessories
- ▮ Hydraulic cylinders
- ▮ Flange tools
- ▮ Material removal tools

- ▮ Sales
- ▮ Rental
- ▮ Maintenance
- ▮ Calibrating
- ▮ Consulting
- ▮ Training

# HYTORC ICE-3

## SAFETY INSTRUCTIONS

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.

**I Read all instructions and make sure your tool has been properly serviced and calibrated**

**I Consider work area environment**

Make sure your work area is clean and well lit. 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.

**I Avoid premature tool starting**

The pump remote control is for the tool operator only.

**I 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.

**I Guard against electric shock**

Ensure the pump is properly grounded and the proper voltage is being used.

**I Store idle tools**

When not in use, tools and accessories should be properly stored to avoid deterioration.

**I 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.

**I Proper safety attire**

When handling/operating hydraulic equipment use work gloves, safety glasses, hard hats, safety shoes and other applicable clothing.

**I Moving equipment**

Do not use hydraulic hoses, uni-swivels, pump power or remote cords as means of moving the equipment.

**I Hoses**

Make sure that the hoses are not twisted. Check the hoses regularly and replace the defective ones.

**I Protective covers**

The moving parts of the wrench are protected by a protective cover. Do not use a tool with no protective covers on it.

**I 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.

**I Stay alert**

Watch what you are doing. Use common sense. Do not use power equipment under the influence of any mood altering substances.

**I Prior to use**

Ensure that all hydraulic connections are securely connected and there is no leakage. Ensure the square drive and its retainer are fully and securely engaged. 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.

**I Always use quality accessories**

Check sockets for size, quality and flaws - do not use if questionable. Remain clear of the reaction arm during operation and never put body parts between reaction arm and reaction surfaces.

**I Do not force the tool**

Do not use hammer or other tools to enhance performance. If needed, use a bigger HYTORC torque wrench.

**I Ask if necessary**

You may always contact your official HYTORC representative, which in Finland is Haitor Oy. Always remember - safety first!