

## Safety Guidelines

These precautions should always be taken when using any of our products:

### TORQUE WRENCHES

Read instruction manual completely before using.

Safety glasses or goggles should be worn at all times when using any hand tool. Serious eye injury is possible.

Always pull, **DO NOT PUSH**, to apply torque and adjust your stance to prevent a fall.

A “cheater bar” should **NEVER** be used on a torque wrench when applying force. Use of a “cheater bar” will result in an inaccurate reading and can possibly damage the wrench and/or part.

Always grasp handle firmly in the center of the grip.

Approach final torque slowly and evenly.

Stop pulling wrench immediately when target torque is reached.

Never use a torque wrench to break fasteners loose.

Should be cleaned and stored properly.

Adjustable torque wrenches should always be stored at its lowest torque setting. Do not go beyond the lowest setting.

Should never be used at its maximum capacity or in excess thereof.

It is recommended to “exercise” your torque wrench a minimum of three times at 100% of full scale after extended periods of non-use.

Torque wrenches will last longer if reasonable care is taken.

Always unwind handle to the lowest setting prior to storing.

Do not attempt to lubricate the internal torque mechanism.

Clean torque wrench by wiping, do not immerse.

The wrench should be sent to a qualified calibration lab at least once a year for evaluation.

All mechanical torque wrenches (Dial Indicating and Micro-Adjustable) are calibrated from 20% to 100% of full scale; therefore, they should never be used below or above those limits.

To determine which torque wrench capacity is best suited for an application, many factors must be considered. However, as a recommendation, use a torque wrench in the middle 50% of the overall capacity of the tool whenever possible. This will result in longer tool life, ease of use for the operator and increased accuracy from “clicker”-type torque wrenches.

### RATCHETS

Ratchet mechanism may slip or break if dirty, mismatched or worn parts are used.

Make sure direction lever is fully engaged.

### DRIVE ENDS

Torque output capacity is limited by its opening size or square drive size – **NOT BY THE SHANK SIZE OR THE TORQUE WRENCH THEY FIT INTO.**

Always use caution when applying torque.

Check for plenty of room for the Drive End to properly fit and be able to “swing” as torque is being applied.

Any obstructions that do not permit the Drive End to swing freely may cause it to fail at its weakest point.

Do not use Drive Ends that show signs of wear or damage.

When in doubt, check your requirements with us – We can customize most of our tools to be a proper and safe fit for your application.

### TORQUE MULTIPLIERS

Do not use any type of power tool on any torque multiplier.

Place reaction bar of torque multiplier against a fixed and strong object.

### HOSE CLAMP TOOLS

Safety glasses or goggles should be worn at all times when using any hand tool. Serious eye injury is possible

Only use standard, non-lubricated shop air at a minimum of 80 psi.

Use caution when connecting air to the tool as it will actuate the arms immediately.

While in operation, keep fingers away from moving parts.

Check with us to assist you in selecting the right tool for your clamp.

### TORQUE TESTERS

Mount tester on a flat surface that is capable of withstanding the load (which will be the maximum capacity on your torque tester.)

Never over-torque the torque tester.