Pneumatic Impact Wrenches

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Pneumatics & Air Tools

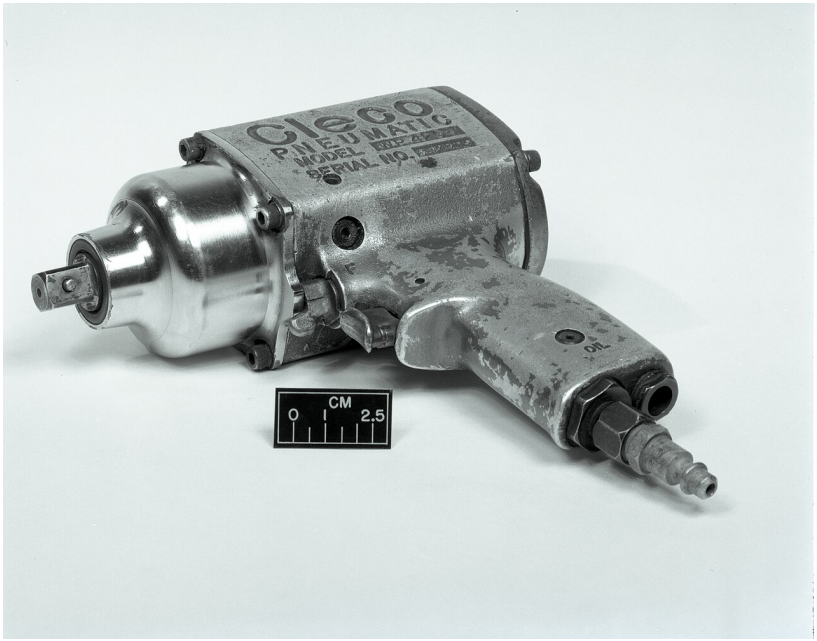

Photo: Martin Brown — Public domain — via Wikimedia Commons (CLECO_PNUEMATIC_IMPACT_WRENCH_-_NARA_-_17423358.jpg)

A pneumatic impact wrench delivers high torque in rapid hammering blows, driving and removing large nuts, bolts and lug nuts far faster than hand tools. With a suitable compressor it is the standard for wheel, suspension and heavy fabrication work.

Key Features

- Drive sizes 1/2, 3/4 and 1 inch
- Torque outputs to 1000+ Nm
- Pistol and straight handle styles
- Variable speed triggers
- Reverse for removal

Typical Uses in the Workshop

- Remove and torque wheel nuts
- Drive suspension and structural bolts
- Speed up repetitive bolting
- Free seized fasteners

Safe Operation

1. Set the air pressure and connect the socket
2. Hold the wrench square on the fastener
3. Use the speed trigger to control blows
4. Torque critical fasteners with a torque wrench
5. Disconnect the air when finished

SAFETY NOTES

- Wear eye protection - sockets can fly
- Starts with the fastener seated, not spinning free
- Never exceed the tool torque where parts spec a limit
- Keep the reaction torque under control
- Check the socket and drive condition

Maintenance & Consumables

- Oil the tool daily through the inlet
- Check the anvil and drive wear
- Inspect the trigger and air hose
- Clean dirt from the housing
- Keep the friction ring in place

Specification & Buying Notes

A 1/2 inch impact with a torque range for wheels is the school essential. Match the compressor flow. Buy impact sockets - regular sockets shatter under impact.