



## Air Impact Wrench

Developed by:	Approved by:	Date created:	Last revision:
Safety Department	Jason Moffat	October 2009	December 1, 2022
Possible Hazards Present	Personal Protection Required	Additional Training	
<ul style="list-style-type: none"> <li>- Pinch Points</li> <li>- Flying objects</li> <li>- Sprains</li> <li>- Strains</li> </ul>	<ul style="list-style-type: none"> <li>- CSA approved safety glasses</li> <li>- CSA approved foot protection</li> </ul>	<ul style="list-style-type: none"> <li>- PPE</li> </ul>	
<ol style="list-style-type: none"> <li><b>1. Ensure the user has read and understands the operators manual.</b></li> <li><b>2. Conduct a pre-starting inspection of equipment and work area;</b> <ul style="list-style-type: none"> <li>- Ensure surrounding work area is clear of all clutter and debris to reduce risk of injury.</li> <li>- Supply adequate lighting to illuminate work area.</li> <li>- Inspect impact wrench for wear or damage.</li> <li>- Report any suspected wear or damage to the immediate supervisor.</li> <li>- Inspect air tool for proper lubrication.</li> </ul> </li> <li><b>3. Choose the proper size of socket for the job and install onto impact wrench;</b> <ul style="list-style-type: none"> <li>- Use only impact sockets, chrome sockets are not engineered for impact and can break under stress.</li> <li>- Ensure that the socket is securely on the wrench, a loose socket can become a deadly projectile.</li> <li>- Be aware while installing socket onto the wrench, a pinch hazard is present.</li> </ul> </li> <li><b>4. Connect air hose to the impact wrench;</b> <ul style="list-style-type: none"> <li>- Inspect airline for leaks, cracks, or wear.</li> <li>- Check and adjust pressure regulator if necessary, never exceed the pressure rating for the tool (90 psi).</li> <li>- Do not route air hoses around sharp objects or hot surfaces that may cause damage.</li> <li>- Make sure wrench is in off position prior to connecting air and hold firmly around handle.</li> <li>- With the other hand, grasp the air hose coupling so that your fingers do not protrude over the end (to prevent pinching between wrench and coupling).</li> <li>- Connect coupling to wrench with firm even pressure until a positive connection is made.</li> </ul> </li> <li><b>5. Operate Impact Wrench;</b> <ul style="list-style-type: none"> <li>- Select the proper setting (forward or reverse)</li> <li>- Place socket completely over nut ensuring a snug fit.</li> <li>- Keep hands off the spinning socket while wrench is in use.</li> <li>- After use, disconnect airline to wrench using quick disconnect coupling.</li> <li>- Coil up airline and return it to its proper location to prevent a trip hazard. <ul style="list-style-type: none"> <li>- Return impact wrench to its proper storage area.</li> </ul> </li> </ul> </li> </ol>			

**6. Conduct a post operational inspection;**



- If damage is noticed or suspected to the impact wrench, prevent further use by locking and tagging the wrench out of service till it is repaired

**7. REPORT ANY DANGEROUS SITUATIONS TO THE SUPERVISOR.**

**Documentation/Legislation**

Workplace Safety and Health Regulation,  
M.R. 217/2006

6 Personal Protective Equipment  
16 - Machines, Tools and Robots

This Safe Work Procedure will be reviewed anytime the task, equipment or materials change and at a minimum every three years.