

This table outlines the possible risks that users of this tool should bear in mind. The risk rating, likelihood, and severity are all calculated assuming that the listed control measures are followed. If you are uncomfortable with these risks, or are not confident in your ability to use this tool safely, please do not use it.

Risk rating	Likelihood	Severity	Hazard	Who may be harmed & how	Control measures
M	L	H	Fire	The space, and any users in it	<ul style="list-style-type: none"> <li>• Users must clear the area of flammable materials before any welding takes place</li> <li>• Metal welding table installed, walls/conduits shielded</li> <li>• Fire extinguisher installed in the welding area</li> </ul>
M	M	M	Fumes	Users, and other people in the room may breathe harmful fumes from the welding process.	<ul style="list-style-type: none"> <li>• Users trained to prep and clean their workpieces, reducing fumes.</li> <li>• Large extractor fan installed beside the welding area and is capable of cycling the room air once every 70 seconds</li> </ul>
L	L	M	Gas bottle falling over	Any person nearby. If the valve were damaged, cylinder could become a projectile.	<ul style="list-style-type: none"> <li>• Only cylinders that have been inspected for safety and come from a reputable supplier can be used.</li> <li>• Gas bottle should be chained to wall, out of the way</li> </ul>
M	M	M	Burns from hot objects	User, and possibly others nearby, may suffer burns from handling hot objects.	<ul style="list-style-type: none"> <li>• Users trained to use appropriate tools and PPE, and to leave the area safe for other users</li> <li>• Signage installed to remind others there may be hot objects left there</li> </ul>
M	L	H	Oxygen depletion from compressed gas release	Any person in the room may suffer from asphyxiation.	<ul style="list-style-type: none"> <li>• Amount of gas in the room is limited to ensure oxygen levels remain safe, even after accidental release.</li> <li>• Ventilation installed</li> <li>• Appropriately sized gas cylinders to be used - see <a href="http://wiki.ehlab.uk/tigwelder:oxygen">wiki.ehlab.uk/tigwelder:oxygen</a></li> </ul>
L	L	M	UV Radiation Exposure	User and other persons nearby may suffer eye/skin damage.	<ul style="list-style-type: none"> <li>• Users trained to use appropriate PPE</li> <li>• Welding curtain installed, users trained to use it.</li> </ul>