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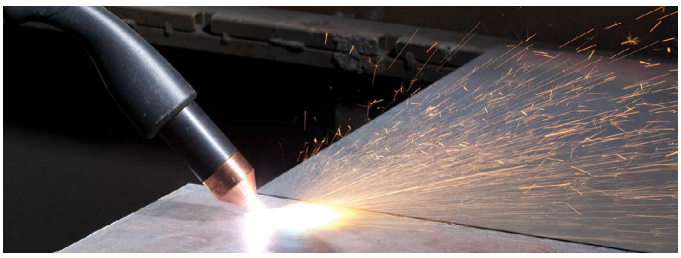
Gouge more safely with plasma



Delivers higher precision and reduces noise

Common gouging challenges

Gouging is a metalworking process that uses a high-energy source to melt and expel metal from a workpiece, typically for weld preparation, defect removal, or creating grooves or cavities. Gouging presents several challenges, from precision and finish quality to safety concerns and consumable costs.



Common gouging methods

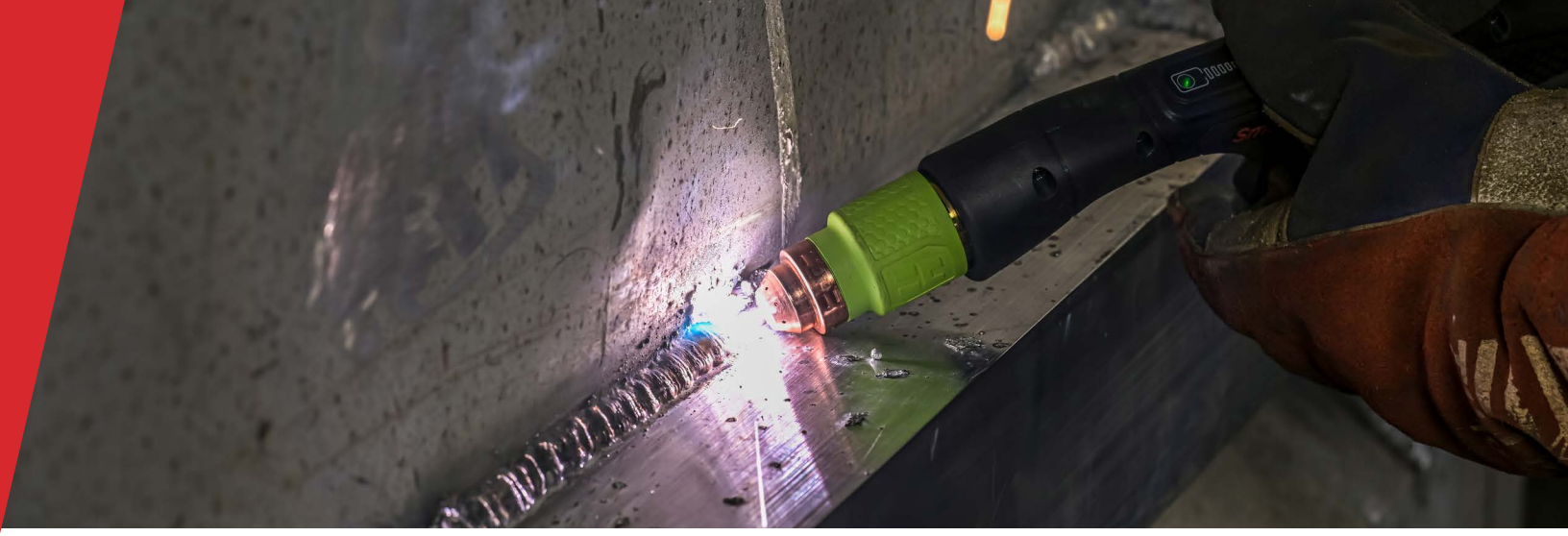
Carbon arc gouging uses a carbon electrode and high-velocity air jet to melt and blow away the molten metal

Grinders and cutoff wheels are manual, less specialized methods of gouging that are still used for their accessibility and versatility

Oxyfuel gouging uses a combination of oxygen and fuel gas to produce a flame that melts the metal, which is then blown away by the oxygen stream

Plasma gouging uses a plasma torch to generate a high-temperature plasma arc that melts the metal, which is then removed by a high-velocity gas stream

Plasma gouging works on any conductive metal, including mild steel, stainless steel, aluminum, and copper



Gain higher productivity and lower costs

Plasma gouging is faster than carbon arc and oxyfuel gouging methods, resulting in higher productivity and reduced labor costs. Plasma gouging does not use carbon electrodes, eliminating the risk of carbon contamination in the base material resulting in little to no grinding for weld preparation.

Achieve your desired gouge results, by hand or automation, with a variety of system amperages, torches, and consumables using optimal gases for your metal type.

Gain competitive advantage with plasma gouging

Work on any conductive metal – ferrous or non-ferrous

Gain faster operating speeds and spend less time on grinding rework

Provides reduced noise and debris levels to meet regulatory and safety requirements

Benefit from improved safety over oxyfuel and carbon-arc methods

Reduce operator training time with a shorter learning curve for operation

Gain cleaner and more precise gouges, resulting in less post-processing work

Highly compatible with automation and ideal for high-precision applications

Hypertherm plasma: trusted more than any other brand

Manufacturers worldwide trust Hypertherm plasma more than any other brand. From handheld to automated, our proven plasma cutting solutions are rated as the industry's most reliable. Contact your Hypertherm sales partner to discuss how a Hypertherm plasma-cutting platform can modernize your operations.

Learn more about gouging with plasma

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