

Air plasma application: **Gouging**

Specific plasma use

Forging and casting

Riser pads, flashing, cracks and imperfections in ferrous and non-ferrous metal parts are gouged for finished product preparation.

Systems: Powermax1000®, 1250 or 1650

Back-gouging for arc welding

Metal from the reverse side of weld joints are gouged out to create a groove for weld preparation.

Systems: Powermax1000, 1250 or 1650

Removal of surplus metal

Excess weld beads, tack welds, welds holding temporary backing strips and brackets are gouged out.

Systems: Powermax1000, 1250 or 1650

Maintenance of metal structures and equipment

Various metal structures (bridges, rigging, storage tanks, piping, etc.) and equipment used in construction and repair (earth-moving machines, cranes, etc.) are maintained with plasma gouging. Existing welds and rivet heads are gouged out for replacement part installation or new welds.

Systems: Powermax1000, 1250 or 1650



Gouging

Specific benefits of Powermax systems

- Reduced noise and smoke over other thermal gouging methods.
- Unlike carbon-arc gouging there is no risk of metallurgical problems (e.g. high hardness or cracking) from carbon contamination.
- Long arc, in excess of 2 inches (5 cm), provides excellent visibility.
- Ease of transition to air plasma cutting – simply change two consumable parts.
- Gouge and cut ferrous and non-ferrous metals.
- System portability offers ease of operation in various locations.
- High metal removal rate of up to 24 lbs. (11 kg) per hour with the Powermax1650.
- Controlled arc and high metal removal rates reduce metal distortion.
- No vibration unlike with drills, saws, cutting discs and grinders.
- No special power supply or dedicated compressor required unlike with arc-air gouging.



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