



Plasma cutting application

General automotive repair

Examples of plasma uses

Exhaust system repair

Corroded or damaged sections of exhaust systems, brackets and bolts are cut loose for the installation of new parts.

Systems: Powermax30 AIR, 30 XP or 45 XP

Bracket removal

Welds securing mounting brackets that have bent or crushed during collisions are gouged out or cut away for the installation of new parts.

Systems: Powermax30 AIR, 30 XP or 45 XP

Body panel and floor replacement

Corroded or collision damaged body and floor panels, typically .8 mm (22 gauge) thick, are cut away for the installation of replacement panels.

Systems: Powermax30 AIR, 30 XP or 45 XP

Spot weld removal

Damaged panels are removed from the body by gouging out the spot welds holding the panels in place. By using a low current arc and a washing technique the damaged panels can be removed without affecting the body.

Systems: Powermax45 XP

Frame repair

Damaged portions of the frame, typically 3 mm (1/8") thick, are cut away for the installation of new square stock.

Systems: Powermax30 AIR, 30 XP or 45 XP

Panel fabrication

Hard to find or costly replacement body and floor panels are sometimes fabricated by cutting sheet metal to size then formed to the correct shape.

Systems: Powermax30 AIR, 30 XP or 45 XP

Key advantages of Powermax® systems

- Superior speed of plasma cutting results in shorter cut times and greater productivity over processes such as oxyfuel or saws.
- Easy to set up and operate.
- Piercing capability makes starting interior cuts easy.
- High cut quality reduces or eliminates secondary operations, such as grinding.
- Drag-cutting technology makes it easy to follow a line or template.
- Gouging process efficiently removes existing welds with reduced noise and smoke over conventional methods.
- System portability offers ease of use at various locations.
- Controlled arc and high cutting speeds reduce heat-affected zone and warping.
- Cut a variety of ferrous and non-ferrous metals including mild steel, stainless and aluminum – painted or rusted.

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