



Plasma cutting application

Armored vehicle manufacture and repair

Examples of plasma uses

Armor panel fabrication

High-hard steel or titanium plates of various thicknesses, typically 5 to 12 mm (3/16" to 1/2"), are cut to size using a hand torch or mechanized torch on a CNC table. Panels are then pierced to cut interior holes for windows, gun ports, wiring harnesses, vents, etc.

Systems: Powermax45, 65, 85 or 105

Mounting bracket fabrication

Metal strips are cut to the desired size to make custom brackets for mounting armor panels.

Systems: Powermax30 XP, 45 or 65

Body panel removal and modification

Welds securing stock body panels, typically .8 to 3 mm (22 gauge to 1/8") thick, on standard military or civil vehicles are gouged out or panels are cut away to provide access and space for the installation of custom armored panels and other security items.

Systems: Powermax30 XP, 45 or 65

Armored vehicle repair

Welds securing collision or ballistic damaged armored panels are gouged out or sections are cut away for the installation of replacement parts.

Systems: Powermax30 XP, 45 or 65

Key advantages of Powermax® systems

- 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.
- Pilot arc control feature enables uninterrupted cutting on expanded metal.
- Machine torches are available for use on cutting machines such as X-Y tables, robots and track cutting systems.
- FineCut® consumables deliver higher quality cut with less dross, narrower kerf and smaller heat-affected zone.

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892070

