



Plasma cutting application

Ship building and repair

Examples of plasma uses

Deck and hull repair

Welds securing damaged or corroded hull plates, typically 8 to 12 mm (5/16 to 1/2") thick, or decking, typically 3 to 12 mm (1/8 to 1/2") are gouged out or cut away for the installation of new sheets.

Systems: Powermax45® XP, Powermax65 SYNC™, or 85 SYNC

Frame repair

Corroded or damaged steel beams, typically 6 to 10 mm (1/4 to 3/8") thick, are cut away for placement of new beams.

Systems: Powermax45 XP or Powermax65 SYNC

Vent and piping installation

Vent, pipe and access holes are cut into 3 to 6 mm (1/8 to 1/4") thick plates using templates.

Systems: Powermax45 XP or Powermax65 SYNC

Tank repair

Deteriorated sections in tanks, typically 1.6 to 3 mm (1/16 to 1/8") thick, are cut away for the placement of new panels.

Systems: Powermax30 XP

Removal of lifting eyes

Lifting eyes up to 50 mm (2") thick are removed using the FlushCut process to reduce grinding.

Systems: Powermax105 SYNC or Powermax125

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.
- Patented FlushCut™ consumables speed the removal of lifting eyes and increase the likelihood of reuse.
- 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 pipe beveling and cutting machines, track cutting machines or light industrial cutting tables.

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