



Plasma cutting application

Tank and vessel fabrication

Examples of plasma uses

Vent and access hole fabrication

Vent, pipe and access holes are cut from 5 to 10 mm (3/16 to 3/8") thick tank walls.

Systems: Powermax30® XP, 45 XP, or Powermax65 SYNC™

Cradle fabrication

Parts to make tank support frames are cut from 10 to 12 mm (3/8 to 1/2") carbon or stainless steel sheets.

Systems: Powermax45 XP, Powermax65 SYNC, or 85 SYNC

Containment system fabrication

Parts to fabricate containment vessels for spill protection are cut from 5 to 6 mm (3/16 to 1/4") steel sheets and tubing.

Systems: Powermax30 XP or 45 XP

Bevel cuts

Edges may be beveled for welding 12 to 16 mm (1/2 to 5/8"), either by hand or with automated processes.

Systems: Powermax85 SYNC or 105 SYNC

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.
- Pilot arc control feature enables uninterrupted cutting on expanded metal.
- Machine torches are available for use on pipe beveling and cutting machines.

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