



Plasma cutting application

Waste water facilities

Examples of plasma uses

Bar screen repair

Worn or corroded bar screens that are on waste water inlets are cut loose or welds are gouged out so replacement bars can be installed.

Systems: Powermax45 or 65

Equipment replacement

Obsolete equipment that is too large to be removed in one piece, such as stainless steel vacuum filter drums, are cut into smaller sections to be transported.

Systems: Powermax45, 65, 85, 105 or 125

Pipe replacement and fabrication

Sections of old cast iron pipe are cut for rerouting water flow or to install a new piece of stainless steel pipe. New pipes are cut to size using either a hand or machine torch on a CNC cutting machine or portable clamp-on style machine. Bevel, saddle, straight and miter cuts are easily made on a variety of wall thicknesses.

Systems: Powermax45, 65, 85, 105 or 125

Hopper repair

Corroded sections of stainless steel panels on hoppers are cut out, or welds are gouged out to install replacement panels.

Systems: Powermax30 XP or 45

Field stake fabrication

Used to mark possible sludge disposal sites, field stakes are made by cutting steel rebar to desired lengths. Steel plates, typically 1.6 mm (1/16") thick, are cut to the desired shape to make a flag then welded on the rebar.

Systems: Powermax30 XP or 45

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.
- Simple controls make setup and operation easy.
- 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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