



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® XP or Powermax65 SYNC™

#### 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 XP, Powermax65 SYNC, 85 SYNC, 105 SYNC, or Powermax125

#### 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 XP, Powermax65 SYNC, 85 SYNC, 105 SYNC, or Powermax125

#### 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 XP

#### 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.
- A variety of torches, including 4' Long torches, and specialty consumables make quick work of most jobs.
- 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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