

Plasma cutting application:

Waste water facilities

Specific plasma use

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: Powermax600® or 1000

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: Powermax600 or 1000, 1250 or 1650

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: Powermax1000, 1250 or 1650

Hopper repair

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

Systems: Powermax30 or 600

Field stake fabrication

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

Systems: Powermax30 or 600



Waste Water Facilities

Specific benefits of Powermax systems

- Superior speed of plasma cutting results in shorter cut times and greater productivity over conventional processes such as oxyfuel and saws.
- High cut quality reduces or eliminates secondary operations such as grinding.
- Piercing capabilities for ease of starting interior cuts.
- Hypertherm's drag-cutting technology makes it easy to follow a line or template.
- Gouging process offers ease of removing existing welds with reduced noise and smoke over conventional methods.
- System portability offers ease of cutting at various locations.
- The controlled arc and high cutting speeds reduce heat-affected zone and metal distortion.
- Cut a variety of ferrous and non-ferrous metals.
- Pilot arc control feature for uninterrupted cutting on expanded metal.
- Machine torches for installation on a pipe beveling and cutting machines.

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