



Plasma cutting application

## Ornamental ironworks

### Examples of plasma uses

#### Stairway fabrication

Metal tubing, with wall thicknesses of 2 to 3 mm (1/16 to 1/8"), are cut to length prior to being formed into the correct shape for hand and support rails. Metal plate, typically 3 mm (1/8") thick, or bar grating is cut to the desired shape for stair treads. Metal plate, typically 2 to 3 mm (1/16 to 1/8") thick, is cut to desired shapes for side skirts and risers.

Systems: Powermax30® AIR, 30 XP or 45 XP

#### Fence and rail fabrication

Metal plate or flat bar is cut and bent into a variety of shapes and sizes and welded on fence rails to create intricate designs.

Systems: Powermax30 AIR, 30 XP or 45 XP

#### Gate fabrication

Square or rectangular tubing, with various wall thicknesses, are cut to the required size for the fabrication of gate frames and support rails. Flat bars are also cut to size and attached to frame rails for custom hinges. Holes are then pierced for hinge pins.

Systems: Powermax30 AIR, 30 XP or 45 XP or Powermax65 SYNC™

#### Key advantages of Powermax systems

- Simple controls make setup and operation easy – even for first-time operators.
- Cut a variety of ferrous and non-ferrous metals including mild steel, stainless and aluminum – painted or rusted.
- Controlled arc and fast cutting speeds reduce heat-affected zone and warping.
- Superior cut and gouge quality reduces time for grinding and edge preparation.
- Drag-cutting technology makes it easy to follow a line or template.
- A wide range of torch styles to choose from for both handheld and automated processes.
- Extensive array of application capabilities via specialty consumables for fine feature cutting, extended reach cutting, gouging and marking.
- The Powermax30 AIR includes an internal air compressor which eliminates having to transport an external compressor or air bottle.

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