

Plasma cutting application: **Ornamental ironworks**

Specific plasma use

Stairway fabrication

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

System: Powermax30®

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.

System: Powermax30

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: Powermax600 or 1000



Ornamental Ironworks

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 reduce or eliminate 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.
- System portability offers ease of cutting at various locations.
- The controlled arc and high cutting speeds reduce heat-affected zone and warping.
- Pilot arc control feature for uninterrupted cutting on expanded metal
- Use of FineCut™ consumables delivers higher quality cuts as a result of less dross, narrow kerf and smaller heat-affected zone.



Hypertherm®

Hypertherm, Inc.
Hanover, NH 03755 USA
603-643-3441 Tel

Hypertherm (S) Pte Ltd.
417847, Republic of Singapore
65 6 841 2489 Tel

**Hypertherm (Shanghai)
Consulting Co., Ltd**
PR China 200052
86-21 5258 3330 /1 Tel

Hypertherm Europe B.V.
4704 SE Roosendaal, Nederland
31 165 59 69 07 Tel

HYPERTHERM BRASIL LTDA.
Guarulhos, SP - Brasil
55 11 6482 1087 Tel

www.hypertherm.com

Hypertherm, Powermax and FineCut are trademarks of Hypertherm, Inc. and may be registered in the United States and/or other countries.

© Copyright 12/06 Hypertherm, Inc. Revision 3
890470