

Plasma cutting application:

Sign manufacturing

Specific plasma use

Match plate fabrication

Used to support the weight of the sign cabinet on a pole, match plates are cut to size from typically 1/2" (12 mm) thick aluminum or steel plates.

Systems: Powermax600® or 1000

Structural frame fabrication

Sign frames are made by cutting square or rectangular steel stock, typically 1/8 to 1/4" (3 to 6 mm) wall thickness, to the required lengths. The pieces are then bolted or welded together to form the frame.

Systems: Powermax30 or 600

Sign cabinet fabrication

Aluminum sheets, typically .04" (1.2 mm) thick, are cut to size to form the backing of the sign. Holes are then cut for posts, wiring or light fixtures.

Systems: Powermax30 or 600

Post fabrication

Typically square or rectangular steel tubing of various sizes and wall thicknesses are cut to the required lengths. Holes are often cut in the sides for electrical wiring.

Systems: Powermax600 or 1000 or 1250

Letter or faceplate fabrication

Metal lettering or faceplates are cut from steel or aluminum sheets by following line or tracing a template with a hand torch. Letters and shapes are also cut using a machine torch* on a CNC cutting table.

Systems: Powermax600 or 1000



Sign Manufacturing

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.
- Ease of installing machine torches on CNC cutting tables.
- 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 metal distortion.
- Use of FineCut consumables delivers higher quality cuts as a result of less dross, narrow kerf and smaller heat-affected zone.

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