



Plasma cutting application

Recreational boat manufacturing

Examples of plasma uses

Hull and keel fabrication

Aluminum sheets, typically 2 to 10 mm (1/16 to 3/8") thick, are cut to the desired size often using a template. The parts are then rolled for shape, clamped together and welded to form the hull and keel.

Systems: Powermax30 XP or 45

Frame fabrication

Structural aluminum in the form of I-beams, C-channel, and square tubing, with wall thickness of 3 to 6 mm (1/8 to 1/4"), are cut to the required lengths.

Systems: Powermax30 XP, 45 or 65

Component fabrication

A variety of shapes are cut from 2 to 5 mm (1/16 to 3/16") thick aluminum for the fabrication of consoles, seats, tanks, floor and wall panels.

Systems: Powermax30 XP or 45

Motor plate fabrication

Motor mount plates are cut from 6 to 12 mm (1/4 to 1/2") thick aluminum then welded in place.

Systems: Powermax30 XP, 45 or 65

Vent and piping installation

Vent and pipe installation holes are cut in aluminum parts, typically 3 to 5 mm (1/8 to 3/16") thick, often using templates.

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.
- Easy to set up and operate.
- 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.
- Controlled arc and high cutting speeds reduce heat-affected zone and warping.
- 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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