

## **Plasma cutting application:** Recreational boat manufacturing

### **Specific plasma use**

#### **Hull and keel fabrication**

Aluminum sheets, typically 1/16 to 3/8" (2 to 10 mm) 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® or 600

#### **Frame fabrication**

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

**System:** Powermax600 or 1000

#### **Component fabrication**

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

**Systems:** Powermax30 or 600

#### **Motor plate fabrication**

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

**Systems:** Powermax600 or 1000

#### **Vent and piping installation**

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

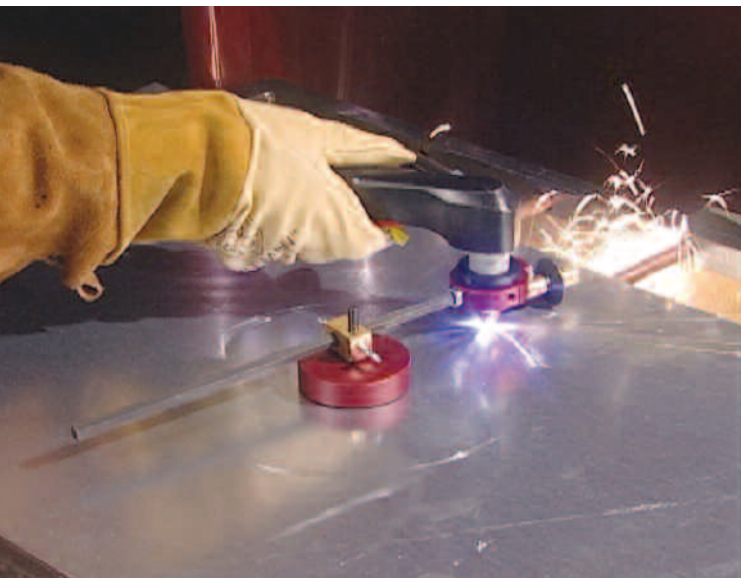
**Systems:** Powermax30 or 600



# **Recreational Boat Manufacturing**

### **Specific benefits of Powermax systems**

- Superior speed of plasma cutting results in shorter cut times and greater productivity over conventional processes.
- 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.
- Cut a variety of ferrous and non-ferrous metals.
- Use of FineCut™ consumables delivers higher quality cuts as a result of less dross, narrow kerf and a smaller heat-affected zone.



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