

## ***Plasma cutting application:*** **Vocational and technical schools**

### **Specific plasma use**

#### **Welding technology**

Students learning the metal-working trade are trained in welding, cutting, forming and finishing processes. Fabrication projects range from thin plate ornamental pieces to heavy structural framework where cutting and gouging techniques are developed.

**Systems:** Powermax600® or 1000

#### **Automotive body repair**

For students learning the auto-body trade, projects include removing corroded or collision damaged body and floor panels. Panels are typically 22 gauge (.8 mm) thick and are cut away for the installation of replacement panels.

**Systems:** Powermax30 or 600

#### **Auto mechanics**

Auto mechanic student projects include engine repair and transmission rebuilding. Common cutting applications are mounting bracket fabrication and exhaust system replacement.

**Systems:** Powermax30 or 600

#### **Metal artwork**

Ornamental or metal art students learn to cut a variety of ferrous and non-ferrous metals. Most common are mild steel, aluminum, stainless steel, copper and bronze. The stock and thickness also varies from thin wall tubular metal to thick flat plate.

**Systems:** Powermax600 or 1000



# ***Vocational and Technical Schools***

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

- High cut quality reduces or eliminates 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.
- Gouging process offers ease of removing existing welds with reduced noise and smoke over conventional methods.
- System portability offers ease of cutting at various locations.
- The controlled arc and high cutting speeds reduce heat-affected zone and metal distortion.
- 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 smaller heat-affected zone.



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