

## ***Plasma cutting application:***

### **Mining and excavation equipment repair**

#### **Specific plasma use**

##### **Dump truck bed repair**

Welds securing worn or damaged bed plates, typically 3/8 to 1" (10 to 25 mm) thick, are gouged out or the plates are cut for installation of new plates.

**Systems:** Powermax1000\*, 1250 or 1650

##### **Loader shovel repair**

Welds securing wear plates, typically 1/8 to 1" (3 to 25 mm) thick, and damaged shovel teeth are gouged out to allow the installation of new parts.

**Systems:** Powermax1000, 1250 or 1650

##### **Bulldozer track repair**

Corroded steel bolts are cut off to remove the damaged shoes for the installation of new track.

**System:** Powermax1000

##### **Plow repair**

Welds securing wear plates, typically 1/2 to 3/4" (12 to 19 mm) thick, and plow blades are gouged out for the installation new parts.

**Systems:** Powermax1000, 1250 or 1650

##### **Truck repair**

Corroded or collision damaged body panels, typically 1/8" (3 mm) thick, are cut away for the installation of replacement panels.

**Systems:** Powermax600 or 1000

##### **Pipe fabrication and repair**

Ground water removal systems with 3/8 to 3/4" (10 to 19 mm) pipe thickness are cut to length for assembly, or cut for dismantling and relocation.

**Systems:** Powermax1000 or 1250



# ***Mining and Excavation Equipment Repair***

#### **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.
- Gouge capabilities offer ease of removing existing welds with reduced noise and smoke over conventional methods.
- The controlled arc and high cutting speeds reduce heat-affected zone and warping.
- Hypertherm's drag-cutting technology makes it easy to follow a line or template.
- System portability offers ease of cutting at various locations.
- Piercing capabilities for ease of starting interior cuts.



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