



Plasma cutting application

Mining and excavation equipment repair

Examples of plasma uses

Dump truck bed repair

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

Systems: Powermax65 SYNC™, 85 SYNC, 105 SYNC, or Powermax125®

Loader shovel repair

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

Systems: Powermax65 SYNC, 85 SYNC, 105 SYNC, or Powermax125

Bulldozer track repair

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

Systems: Powermax65 SYNC, 85 SYNC, 105 SYNC, or Powermax125

Plow repair

Welds securing wear plates, typically 12 to 20 mm (1/2 to 3/4") thick, and plow blades are gouged out for the installation new parts.

Systems: Powermax65 SYNC, 85 SYNC, 105 SYNC, or Powermax125

Truck repair

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

Systems: Powermax45 XP or Powermax65 SYNC

Pipe fabrication and repair

Ground water removal systems with 10 to 20 mm (3/8 to 3/4") pipe thickness are cut to length for assembly, or cut for dismantling and relocation.

Systems: Powermax65 SYNC or 85 SYNC

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.
- Simple controls make setup and operation easy.
- 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.

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