Hypertherm®

Plasma cutting application

Railyard maintenance

Examples of plasma uses

Railcar platform repair

Corroded or damaged railcar platforms are removed for replacement steel grating.

Systems: Powermax45® XP, Powermax65 SYNC™, 85 SYNC, or 105 SYNC

Vent installation

Templates are used to cut holes in the walls, floors, and ceilings panels, typically 3 to 5 mm (1/8 to 3/16") thick, to install air circulation vents in passenger railcars.

Systems: Powermax30 XP or 45 XP

Maintenance vehicle repair

Damaged or deteriorated sections of body panels, typically 3 mm (1/8") thick, are cut away to install replacement panels or patching. Fabrication of dividers or racks requires the cutting of steel plates and tubular stock prior to being welded together.

Systems: Powermax30 XP, 45 XP, or Powermax65 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.
- 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.
- FineCut® consumables deliver higher quality cut with less dross, narrower kerf and smaller heat-affected zone.
- HyAccess™ consumables provide improved reach in corners or other tight places.

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