



Plasma cutting application

Dump trailer manufacturing

Examples of plasma uses

Draft arm fabrication

Structural aluminum or steel tubing, typically 15 cm (6") square with 5 to 6 mm (3/16 to 1/4") wall thickness, is cut to length then fabricated into an assembly with gussets, stiff-legs and bushings.

Systems: Powermax45 or 65

Bulkhead, tailgate and siding fabrication

Structural aluminum or steel tubing, typically 8 cm (3") square, is cut to the desired lengths to form the trailer frame. Aluminum or steel plates, typically 5 to 6 mm (3/16 to 1/4") thick, are cut to size for siding, rolled to shape then welded to the frame. Holes are pierced for the mounting of tarp supports and tailgate access doors.

Systems: Powermax45 or 65

Small parts fabrication

Aluminum or steel tubing, 6 to 8 mm (1/4 to 5/16") wall thickness, is cut to the desired lengths to make hinges for the rear of the trailer.

Systems: Powermax45 or 65

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.

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