

## ***Plasma cutting application:*** **Dump trailer manufacturing**

### **Specific plasma use**

#### **Draft arm fabrication**

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

**Systems:** Powermax600® or 1000

#### **Bulkhead, tailgate and siding fabrication**

Structural aluminum or steel tubing, typically 3" (8 cm) square, is cut to the desired lengths to form the trailer frame. Aluminum or steel plates, typically 3/16 to 1/4" (5 to 6 mm) 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:** Powermax600 or 1000

#### **Small parts fabrication**

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

**Systems:** Powermax600 or 1000



# ***Dump Trailer Manufacturing***

### **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.
- 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.



Photo courtesy of ISBI

## ***Hypertherm***®

**Hypertherm, Inc.**  
Hanover, NH 03755 USA  
603-643-3441 Tel

**Hypertherm (S) Pte Ltd.**  
417847, Republic of Singapore  
65 6 841 2489 Tel

**Hypertherm (Shanghai)  
Consulting Co., Ltd**  
PR China 200052  
86-21 5258 3330 /1 Tel

**Hypertherm Europe B.V.**  
4704 SE Roosendaal, Nederland  
31 165 59 69 07 Tel

**HYPERTHERM BRASIL LTDA.**  
Guarulhos, SP - Brasil  
55 11 6482 1087 Tel

[www.hypertherm.com](http://www.hypertherm.com)

Hypertherm, Powermax and FineCut are trademarks of Hypertherm, Inc. and may be registered in the United States and/or other countries.

© Copyright 12/06 Hypertherm, Inc. Revision 2  
890400