

## High Definition Heavy Plate Plasma Cutter

The STI 800-HD Cutting and Drilling Machine cuts, drills, and taps a variety of shapes and sizes of different materials.

Features include:

- 800 AMP Plasma Head
- Dual Oxyfuel Head with mirroring capabilities
- 40 HP Machining Turret



### CAPABILITIES OF THE STI 800-HD CUTTING & DRILLING MACHINE

#### PHYSICAL PLANT SUPPORT CAPABILITIES & LIMITS

**Table Capacity:**

30"D x 132"W x 552"L (3 ft x 12 ft x 50 ft)

**Weight & Lifting Capacity:**

50 tons

#### PROCESSING CENTER MATERIAL CAPABILITIES & LIMITS

**Plates:**

12"T x 132"W x 552"L (11 ft x 50 ft)

**HSS (Hollow Structural Sections), Pipe, Tubes, Squares, Rectangles, Beams, Angles, etc:**

30" x 30" x 552"L (2.5 ft x 50 ft)

#### CUTTING CAPABILITIES & LIMITS

**Stainless and Nickel Alloys:**

Up to 6" thick

**Carbon and Low Alloy Steel:**

Up to 12" thick

**Aluminum Alloys:**

Up to 6" thick

#### CUTTING PROCESSES & THICKNESS LIMITS

**High Definition Plasma Cutting:**

20 Ga to 3" thick

**Standard Plasma Cutting:**

3" to 6" thick

**Alternative-Fuel Oxyfuel Cutting (Non-Acetylene)**

¼" to 12" thick

#### BEVELING PROCESS LIMITS

**Bevel Angles Supported:**

0 to 45 Degrees

**Stainless and Nickel Alloys:**

Up to 6" equivalent thickness (4" at a 45 degree angle)

**Carbon and Low Alloy Steel:**

Up to 3" equivalent thickness (2" at a 45 degree angle)

**Aluminum Alloys:**

Up to 6" equivalent thickness (4" at a 45 degree angle)

#### DRILLING & TAPPING APPROXIMATE LIMITS

**Drilling:**

2" diameter and under

**Tapping:**

1" diameter pre-drill and under

# Custom Metal Fabrication that is ready to meet your needs

AMECO USA is a full-service custom manufacturing company. We specialize in innovative methods to design and build fabricated and machined metal products. Our wide range of capabilities includes custom fabrications and welding of carbon steel, stainless, nickel and moly alloys.



## COMPANY CAPABILITIES

### PROCESSES



STI HD-800 Cutting & Drilling Machine

- High definition, CNC plasma cutting system with 40HP turret drilling and milling; up to 6" thick stainless steel and plate sizes up to 12' x 50'
- Plate bending and forming
- CNC punching
- Rolling
- Burning: large capacity, plasma and oxy
- Hot and cold forming
- Machining and vertical milling
- Production saw cutting
- Certified welding – ASME Section IX
- MIG, TIG, SAW and robotic welding
- Stud welding up to 1" diameter
- 3D modeling Solidworks and Autocad
- Passivating
- Painting and blast cleaning

### PLANT

- 51,000 Square Foot Facility
- 50 Ton Lifting Capacity



Berthiez Vertical Turning Lathe

### MACHINING

- Berthiez TVM-100 Type 2 CNC vertical turning lathe
- CNC machining – all types
- High precision, high speed

### TESTING AND INSPECTION

- In-house NDT, PT MT and VT
- ASNT Level III contractor for RT, UT and AWS/CWI
- Welding in compliance with ASME section IX, AWS D1.1/01.5/API/AISC-DOT

