

Scope of Work

Pennsylvania Correctional Industries, a Bureau of the Pennsylvania Department of Corrections operates a Heavy-Duty Vehicle Refurbishing Plant within the confines of SCI-Forest located in Marienville, Pennsylvania. This scope of work is to cover a 5' x 10' Plasma Cutting Table needed in the Metal Fabrication area of the Plant that will be utilized for the fabrication of replacement parts for snowplows.

The equipment shall conform to the requested specifications and shall be new and of good quality. All equipment shall be provided complete including freight to the Pennsylvania Plant site located at 286 Woodland Drive, Marienville, PA, 16239

The plant has two loading docks, one with a ramp and the garage doors are 12'W x 14'H. Also available are two additional garage doors at ground level which are 16'Wx 14'H. The overhead doors being 14' are the lowest obstruction in getting equipment to its destination.

The supplier agrees that the warranty for equipment shall come in to effect from the date of equipment acceptance or the date of acceptable use if there is no acceptance testing period. Lead timing of 8 to 10 weeks. Provide one day of training on the Plasma Table. Any substitute product must be approved by the DOC prior to bid submission.

Pricing should be bid as FOB destination.

Piranha Model C510 s/Powermax 85 SmartSYNC or approved equal.

REQUIRED FEATURES

1. Rugged Construction - All-Welded Steel Frame.
2. Dual Side Drive – gantry driven on both sides for maximum stability
3. CNC Control with 10.4" High resolution color LCD monitor, shape library with 20 configurable shapes, 8MB memory & USB interface
4. Panasonic servo motors and drives – Powerful 400 watt servo motors (not stepper motors) on both X-axis and Y-axis with a maximum traverse speed of 8000mm/min.
5. Down draft exhaust system
6. MicroStep Programmable Torch Height Control
7. Breakaway Torch Mounting
8. ProNEST® 2019 LT Smart Start Programming System – 2D CAD drawing, DXF importing, integrated shape library, drag and drop nesting.

FEATURE

Maximum Rapid Speed

CNC Control

SPECIFICATION

314 IPM

Starfire

Frame and Bridge Construction

Welded Tubular Steel

Drive Motors

X-axis – Two Servo Motors Y-axis – Servo Motor

Torch Height Control – Stepper Motor

Drive System

X-axis – Rack and Pinion each side Y-axis – Rack and Pinion Z-axis – Ball Screw

Torch Control

Arc Voltage with Initial Height Sensing

Torch Protection

Pneumatic Breakaway

Exhaust Fan

6500 cfm @ 3" H2O

MATERIAL THICKNESS**MAXIMUM CUTTING SPEED****10 GA MS**

314 IPM

1/4" MS

164 IPM

3/8" MS

80 IPM

1/2" MS

48 IPM

5/8" MS

30 IPM

3/4" MS

24 IPM

GAS TYPEAIR *(Preferred for all materials)*NITROGEN *(Stainless & aluminum only
No cut chart data available)***Gas Quality**Clean, dry, oil-free per ISO
8573-1 Class 1.2.2

99.995% pure

Required: gas inlet flow and pressure

Cutting: 400 scfh @ 85 psi (190 slpm @ 5.9 bar)

UTILITY REQUIREMENTS

Required:

- 230V SINGLE PHASE AC / 30A service for table, CNC control, and exhaust fan.
- Dry Compressed air – 90 psi minimum