

DECEMBER 19, 2022



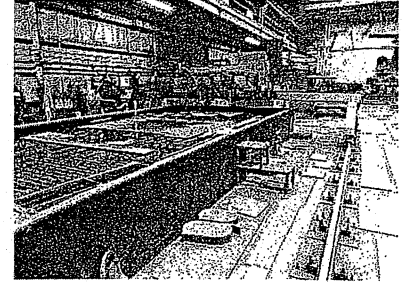
# CUTTING SYSTEMS, INC.

*Cutting Machine Specialists*

15593 Brookpark Road Cleveland OH 44142 tel:(216) 928-0500 fax:(216) 928-0502 www.cuttingsystems.com

November 9, 2022

Mr. Douglas Reighart  
RSP  
37877 Elm Street  
Willoughby, OH 44094

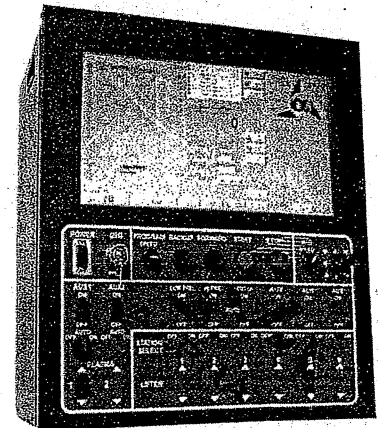


Dear Doug,

We are pleased to provide you with our proposal for the retrofit of your existing NC 2000 profile cutting machine.

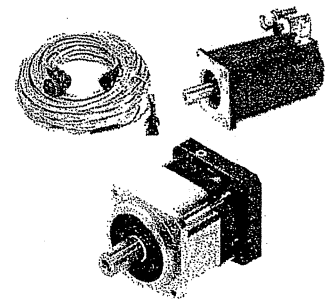
*We propose to furnish and install the following...*

- 1 ea. **Edge Connect w/ Coordinated 4-Axis Drive System:**
  - Windows 10 Operating System
  - **4-Axis Input Configuration**
  - Industrial Grade Touch Screen (Human Machine Interface)
  - 19-inch Wide Format Active TFT Color LED
  - Atom Processor
  - 8-Directional Joystick
  - **(1) Plasma station included**
  - Discrete Button Interface; Go, Stop, Fwd, Reverse, Lifter Up/Dn
  - Real-Time Motion Graphic Display
  - Built-in Operator's Console
  - Standard Shapes
  - Cut-Loss Recovery
  - Front-panel USB Port (QTY 1) - Wireless Network Kit
  - Includes Oxy/Fuel Controls for up to 3 Stations



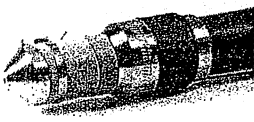
1 ea. **Replace Carriage Bearings**

- 1 ea. **Yaskawa® Sigma 7 Internal Drive Package (750 watts / Axis)**
  - 4 Axis Drive Amplifier
  - (Qty. 3 @ 750W & Qty. 1 @ 200W (Z Axis)
  - Drive Amplifiers will be mounted *inside* Edge-Connect control unit
  - AC Brushless Yaskawa Motors (Qty.3)
  - Planetary "Direct-Drive" Gearboxes (Qty.3)
  - Armature & Encoder cables: (QTY 8); 2 for each motor





1 ea. **Hypertherm Max Pro 200 (200 amp) Long Life Air and Oxygen Plasma Cutting System:**



HyPro2000 quick-disconnect torch

Cuts virtually dross free up to 3/4" thick at 100% duty cycle on mild steel

*Production piercing up to 1-1/4" on mild steel*

*Severs up to 2" thick mild steel*

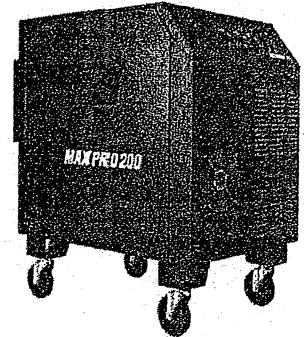
*Pierces 26 ga through 1-inch-thick stainless steel*

Includes HyPro Quick Disconnect Torch

\$800.00 in "Start-Up" Consumables

2 Year Warranty

**Hypertherm**



1 ea. **Hypertherm Sensor Automatic Plasma Torch Height Control:**



Heavy Duty Motorized Slide with 9.4" of stroke

Initial Height Sensing (IHS), for accurate and repeatable Initial Pierce Height Settings

Fastest "Cut to Cut" Cycle Times ever offered with "*Rapid Part Technology*"

Ohmic Contact or Stall Force senses torch contact with the plate for IHS

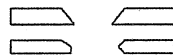
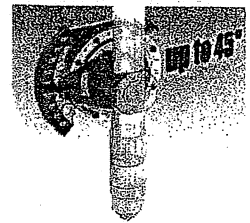
Manual Up / Down Switch on Lifter

Laser Pointer built into lifter for easy plate alignment

Magnetic Plasma Collision Sensor, torch will "Breakaway" during torch collision

CSI "*Straight Bevel*" solution up to 45 degrees left or right in long axis

2 year warranty

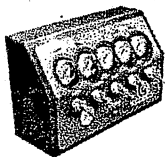


1 ea. **New Pinions in all axis**

1 ea. **New Motor Mount transitions in all axis**

1 ea. **New Hoses on the machine**

1 ea. **CSI Oxy/Fuel Gas Regulator Control System:**



High Volume Harris 425 Series Station Regulators

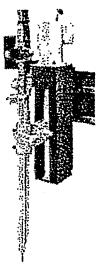
High/Low Pre-Heat Automatic

"Ease On" Pierce Rate Valve for High Pressure Oxygen Control

Manifold for Oxy / Fuel Stations

High Pressure Oxygen controlled with a High Volume Dome Loaded Regulator

3 ea. **CSI Motorized Torch Cutting Stations including:**



Heavy Duty Motorized Lifter with 8" of Stroke

Ball Screw Design guided by Linear Way & Linear Bearing

110 VAC Motor with mechanical Clutch and Lovejoy Coupler

Brass Torch Holder with Pinion and Hand Wheel

Harris 98-6TARF (3) Hose Machine Cutting Torch with 32 pitch Rack

Individual Control of Preheat Gases and High Pressure Oxygen

Hoses, Control Cables and All Necessary Connections

All Hoses & Cable are routed through high quality Igus Power Track

Includes Mechanical Tie Bar Torch Spacing

2 ea. **CSI Advanced Rail Cleaning Systems for maintenance free operation:**



RAIL CLEANER