



6/13/2013

Quote #061313-01
Larsen Manufacturing
901 Orchard, Unit F
Mundelein, IL 60060
Steve Stratos
847-431-4270

Quote for Reconditioning of an EB76 tube bender

1. Bender Clean Up And Overview

- Perform a overview of the tube bender
- Degrease, clean and paint machine

2. Bender Mechanical

- Disassemble Bend head, Bend arm, P-die, Mandrel, Side loader and POB as required, to clean, repair, paint then re-assemble
- Replace all rails and bearings on all assemblies

3. Bender Electrical

- Rewire machine complete
- Clean all electrical panels
- Replace all limit switches
- Replace all proximity switches
- Replace all flexible conduit
- Inspect encoders

4. Bender Hydraulics

- Replace all hydraulic valves
- Inspect hydraulic motors
- Inspect hydraulic pump
- Inspect machine lube
- Replace all hydraulic hoses

5. Replace Baldor Servos with Control Techniques® Components

- New Drives on The Y-Axis, B-Axis and C-axis
- New motors on the Y-Axis, B-Axis
- Power and feedback cables, brake resistor kits, line reactors, motor adapters

6. Install New "BendPro G2 Control"

- BendPro G2 control system for Multi-Axis, single stack CNC bender

Sub Total Rebuild * \$ 175,750

1. Additional Bender Options

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|---|-----------|
| Upgrade Y axis to 2500 lbs of push | \$ 23,000 |
| Supply guarding around bender | \$ 4,500 |
| Sick laser scanner to provide operator protection | \$ 7,500 |

2. Software Options:

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|---|----------|
| BendPro SIM, software for simulation of the bending process with 3D machine models to check for collisions and estimate cycle times. Typical 'one time' cost to create a 3D machine model for BendPro SIM | \$ 4,800 |
| Interface to CAD programs. STEP and IGES file import routine can automatically bring in part files created by various CAD programs such as Pro E, Solid Works, CATIA, Inventor, etc... | \$ 7,250 |
| | \$ 2,800 |

Sub Total options \$ 49,850

* This bender can be purchased with an as needed, damaged part replacement rebuild \$150,000
We offer a (1) year, new parts and labor only warranty, on a bender with a damaged part replaced rebuild.

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|------------------------|------------|
| Sub Total Rebuild | \$ 175,750 |
| Sub Total options | \$ 49,850 |
| Total with all options | \$ 225,600 |

DELIVERY TIMING 5-6 weeks
Timing is based on options chosen

