



Installing new Spindle Motors to a 10 axis SNK Profiler

## Microtrol Engineering Inc

If you're looking for high quality CNC retrofits, Machine Tool Repair Services (Electrical and Mechanical), Stretch press CNC controls, Robotics and custom automation services, we can provide for all of your machine and automation needs. At Microtrol Engineering we'll give you the attention and professional service you'll come to expect and enjoy. Let us put our years of experience to work for you. Our rates are competitive, with no hidden fees. Our employees are friendly and will be there to help you every step of the way.

Current customers we support:

- Triumph Aerostructures
- PCC Rollmet
- SpaceX
- MC Gill
- Space System Loral
- Advanced Structural Alloys
- Alcoa
- AIDC (Taiwan)
- A&M Engineering

## Retrofits

From 2 axis simple lathes, multi axis 5 axis machining gantries to 36 axis riveting systems, Microtrol has the controls and upgrade solutions to get your machine back up to its original capabilities and reliability.

Control systems available from Microtrol:

- Fanuc (Authorized Integrator)
- Fagor
- Siemens

Machine Types:

- 5 Axis Gantry Profilers
- 5 Axis Single Spindle
- 3/4 Axis Vertical and Horizontal Mills
- Lathes (2 and 4 axis)
- Riveting Machinery
- Routers (Stack and single sheet)
- Boring Mills
- Jig bores
- Jig Grinders
- Vertical Turning Lathes (VTL)
- Grinding machinery



New Verson Bladder Control System for Mahindra

## Custom Automation

Microtrol Engineering provides custom automation solution for your various needs. We use various control system such as Contrologix, SLC500, Productivity types of PLC, PAC controller, PC HMI systems, SCADA, and OPC, Visual C, Visual Basic, RSLogix, Vision systems, hydraulic servo controls and Productivity CPAC 3000.

Some examples of custom projects:

- Roll Expander Presses
- Multi-axis riveting systems
- Robot parts feeders
- Nozzle Drilling machines
- Railroad Tread Lathes
- Custom Automation

## MICROTROL ENGINEERING INC

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## CNC Press Controls

Microtrol Engineering designs and builds its own customizable forming press controls for Stretch Form Presses, Brake Presses, Roll Form Presses and Bladder Presses for the sheet metal industry.

- Customized HMI
- Up to 24 axes hydraulic servo valve control.
- Up to 16 solenoid directional control axes
- Recipe or CNC program storage.
- CPAC 3000 PLC with OPC

### Machines Types Supported

- Sheridan Gray Longitudal
- Cyril Bath Skin Presses
- Cyril Bath Extrusion Presses
- Hufford A7- A50 Presses
- Eroc Skin Presses
- Pacific Brake Presses
- Farham Roll Presses
- Verson Bladder Presses

## Machine Tool Repair Services

### Electrical Services

- CNC Control Troubleshooting
- Machine tool panel services
- Axis Drive diagnosis
- Machine Rewiring
- Moving Track repair/rebuild
- AC/DC Drive diagnosis
- Wiring replacement
- Servo Axis tuning
- Hydraulic Servo diagnosis
- PLC repair/replacement
- PLC Programming services
- Safety Device interfacing

### Mechanical Services

- Axis mechanical repairs
- Ballscrew repair/rebuild
- Machine alignments
- Axis bearings diagnosis
- Gearbox diagnosis and repair
- Hydraulic system repair
- Pneumatic repair
- Way Work
- Spindle Repair/Rebuild
- Machine tool disassembly
- Scraping and flaking service



*High speed core router retrofit*

## Who We Are

### About Us

Microtrol Engineering is family-owned and operated right here in Torrance, CA. Since our company opened its doors in 1988, we've treated every customer like they were a part of our family. Other companies may offer similar services, but our services are the best, and come with a personal touch.

With over 30 years of CNC Service and Automation experience, we can provide you with machine tool repair, retrofits, and mechanical alignments that will increase your productivity and quality as well as reducing machine downtime.

