

# DeArmond Tool

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The NEW Micro Mill DSLS 3000 Desktop Machining System utilizes the latest advanced Digital Sync Lock Servo (DSLS) control technology.

A full desktop machining system with capabilities to produce The most complex of designs in steels, aluminum, brass, plastics and waxes.



## Machine Features:

- Position increment resolution 0.000125 in.
- Mechanical repeatability 0.0003 in.
- Powerful 1/4 HP continuous duty AC motor.
- Spindle Speed 1100 - 11000 RPM
- Heavy Duty and Precision ER-16 spindle assembly.
- Travel: X = 12", Y = 5.5", Z = 6"
- Rapid Traverse Speed (G00) up to 100 in/min.
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- Continuous Contouring Feed rate up to 60 in/min.
- Precision Mechanics.
- Box way Z-axis assembly with ground steel plate and tapered brass gib.
- Adjustable tapered brass gib on X-axis.

- Ground steel sliding ways with adjustable brass gib.
- Hard anodized aluminum table.
- 1/2 inch 20 pitch Cr-Mo lead screws with adjustable split bronze nuts on all axes.

### **Complete System Includes:**

- Micro Mill with New Powerful 1/4 HP spindle motor.
- Pulley set with drive belt.
- 3/16", 1/4" collets with collet closer
- DSLS Electronic Control Driver Unit
- Custom Windows XP Mach 3 software control interface.
- 4th Axis Amplifier and Port Included
- Input/Output Port Included
- 200 oz-in. stepping motors with integral high resolution encoders
- Printer cable, power cable

### **Control Features:**

- Advanced Digital Sync Lock Servo DSLS control using the latest microcontroller chip technology.
- High resolution 1600 cpr encoders.
- High power electronic chopper drive amplifier.
- Standard computer parallel printer port input.
- 4th axis amplifier and port.
- Input/Output port.
- Spindle on/off (M3/M5) and Aux on/off (M8/M9).

### **Software Features:**

- Custom Windows XP Mach 3 control interface.
- 2D or 3D Graphic Part Display Window.
- Complete G-code set of ALL G-codes.
- Complete M-code set.
- Import of standard DXF file formats.
- Import of standard HPGL file formats.
- Import of BMP and JPEG image files.

- Custom Wizards containing 20+ common machining operations (Bolt holes, pocketing, thread milling, etc.)
- 3D Digitizing Probe Input.
- User's manual
- 1 Year system warranty

### **Computer System Requirements:**

- Windows XP computer with Pentium 1 GHz or higher processor required.
- 20 MB Hard Drive.
- 128 MB Ram.
- Standard DB25 printer port output.

### **System Options:**

- Full 4th axis rotary table system.
- 3D Digitizing Probe
- Rhino 4.0