



# PM SERVICES



## FACTORY OUTLET A DIVISION OF MACHINING TIME SAVERS, INC.

**Proper Maintenance\*\*** is important to protect your investment in Haas machine tools. To help you keep your Haas in top condition, we offer an annual PM inspection service, so you'll know if any serious problems are developing. Annual inspections ensure your CNC machine remains in peak operating condition, giving you complete confidence! See below what's included.

### Mechanical System

- Check machine level \*\*\*
- Verify spindle sweep
- Check gear-shift operation\*
- Check spindle lube and air blast
- Check spindle-operation
- Check shot pin operation\*
- Inspect drive belts & encoder belts
- Test, inspect and adjust tool changer system
- Inspect spindle taper conditions
- Inspect way covers and wipers
- Inspect rigid-tap encoder operation\*
- Inspect Ball Screw condition (Push/Pull test)
- Clean/lubricate tool changer
- Inspect counterbalance system
- Inspect Hydraulic Power Unit\*

### Way Lube System

- Clean filters\*
- Inspect lines and fittings
- Check lubrication (ways & spindle)
- Verify lube/pump operation

### Coolant System

- Verify Coolant System and coolant concentricity

### Electrical System

- Clean electrical cabinet
- Check voltages
- Inspect connections/terminals
- Inspect tool change relays
- Inspect grounds
- Check limit switches/safety locks
- Inspect/Clean brush dust in DC Motors\*

### Air System

- Clean filters\*
- Check pressure/adjust regulator
- Inspect system for air leaks

### Lathe Only

- Verify turret/spindle alignment (basic checks)

### Optional Special Services

- Ball Bar Calibration - tests circularity and verifies the positioning accuracy
- Vibration Analyzer - verifies machine vibration against established criteria
- Laser Calibration Services

Contact us at (714) 517-8080 or [service@mtscnc.com](mailto:service@mtscnc.com) for pricing

\* Only if applicable

\*\* Any necessary repairs resulting from PM are charged additionally at regular labor & travel rates

\*\*\* Re-level for 5-axis machine requires a service call and will be charged additionally at regular labor & travel rates

Starting at **\$1,295.<sup>00</sup>**