



Preventive Maintenance Inspection Items

Electrical System

- Check incoming voltage
- DC buss voltage
- Logic voltages
- Condition of wires and connections
- Ensure fans are working
- Check regen resistors
- Check vector drive
- Check transformers
- Check cabinet filter
- Check motor connections and brushes*

Operator Panel

- Condition of keypad
- Function of keys, buttons, remote handle jog*
- Condition of floppy drive*
- Adjust CRT if needed
- Check door rollers, switches, rails
- Operation of chip auger/conveyor

Wipers/Seals/Windows/Bellows

- Check if in good working condition

Geometry

- Check level
- Check backlash in axis' with ballscrews
- Complete an alignment report

Pneumatic System

- Check filters*
- Check hoses and fittings
- Check for leaks
- Check pressure switch

Way Lube System

- Inspect filters
- Inspect lines and fittings
- Check proper pump operation

Spindle/Transmission

- Check transmission oil
- Condition of belts
- Condition of air lube lines
- Condition of spindle taper or chuck

Hydraulic Power Unit*

- Check oil level and condition of oil
- Check for leak
- Check max pressure
- Check low pressure switch
- Check gauges
- Check that filter has been changed

Coolant

- Check condition of hoses
- Check for leaks
- Coolant pump and filters
- P-cool operation

Counterbalance*

- Check hoses and fill if necessary
- Check chains, rollers, and weight

Optional Special Services

- Must be completed at time of preventive maintenance.

Through Spindle Coolant (mills) High Pressure Coolant (lathes)

- Check pre-charge pressure, hoses, pressure at pump, seal housing, and filters.

Pallet Changer or Parts Loader

- Check for wear on rollers, status of switches, alignment to machine, condition of bumpers, and remote operator panel.

Bar Feed (Haas brand only)

- Check alignment, switches, and repeatability.

Vibration Analyzer Plot

- Verifies machine vibration against established criteria. Isolates potential problems while still manageable.

Ball Bar Plot

- Used as a diagnostic tool, the ball bar tests circularity and verifies the positioning accuracy and repeatability of your machine tool. Only available on mills at this time.

Probe Calibration

- By recalibrating your Visual Quick Code Probing System, you ensure the integrity of your measuring system.

* if applicable

Optional Special Services

- Through Spindle Coolant (Mills) or High Pressure Coolant (lathes)
- Pallet Changer or Parts Loader
- Bar Feed (Haas brand only)
- Vibration Analyzer Plot
- Ball Bar Plot
- Probe Calibration