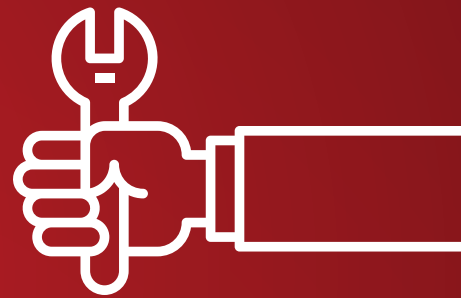




Haas
F1 Team



HAAS CNC MACHINE TOOL PREVENTIVE MAINTENANCE CHECKLIST

MECHANICAL SYSTEM

- Verify machine level
- VMC – verify spindle sweep
- Lathe – verify turret square to spindle face
- Check lubrication is reaching the spindle
- Inspect drive belts
- Inspect tool holders/grease pull studs.
- Inspect the rotary oil level (mill)
- Verify gearbox/motor operation
- Inspect tool changer and lubricate
- Inspect spindle taper condition
- Verify smooth turret indexing (lathe)
- Measure drawbar clamp force (mill)

LUBRICATION SYSTEM

- Inspect filter
- Inspect hoses and fittings
- Check pump operation / test
- Check/adjust pressure, spindle regulator
- Inspect system for leaks
- Change gearbox oil (lathe only)
- Change hydraulic fluid and filter

ENCLOSURE/SAFETY:

- Inspect Safety Interlock operation
- Inspect windows for damage
- Inspect way covers and wipers

ELECTRICAL SYSTEM

- Clean electrical cabinet
- Check incoming voltages
- Check DC bus voltage
- Inspect connections and terminals
- Inspect electrical ground connections
- Replace or clean filter fan
- Check safety locks
- Check axis motors and cables

COOLANT SYSTEM

- Inspect coolant hoses
- Verify all pump operation
- Clean coolant filters
- Test and adjust coolant concentration
- Inspect coolant tank for sediment

AIR & LUBRICATION SYSTEM

- Inspect all lines and hoses
- Verify all pump operation
- Check incoming air supply
- Verify lube/pump operation for axes

PROBE SYSTEM:

- Check the probe batteries
- Check Probe Calibration