Haas / Haas F1 Team
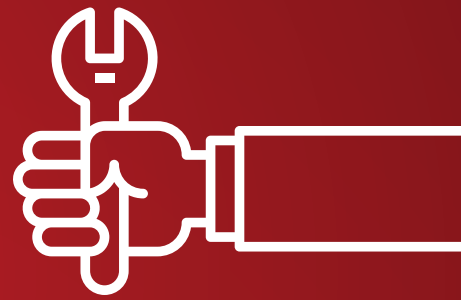
HAAS CNC MACHINE TOOL PREVENTIVE MAINTENANCE CHECKLIST

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
- ☐ Clean Vector Drive Filter
- ☐ Inspect connections and terminals
- ☐ Inspect electrical ground connections
- ☐ Inspect and clean fans
- ☐ 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