



20 - Lathe - Maintenance

Lathe - Interactive Service Manual

20.1 LATHE - MAINTENANCE SCHEDULE

1 - Lathe -
Introduction

2 - Lathe -
Specifications

3 - Lathe -
Installation

4 - Lathe - Spindle

5 - Lathe - C-Axis

6 - Lathe - Turret
Indexer Assembly

7 - Lathe - Live
Tooling

8 - Lathe -
Hydraulic Power
Unit (HPU)

9 - Lathe -
Tailstock

10 - Lathe - Sub-
Spindle

11 - Lathe -
Probing

12 - Lathe - Parts
Catcher

13 - Lathe - Axis
Motion

14 - Lathe -
Lubrication
Systems

15 - Lathe -
Electrical Control

16 - Lathe - Chip
Removal and
Coolant

17 - Lathe -
Workholding

18 - Lathe - Auto
Door

19 - Lathe -
Enclosure

20 - Lathe -
Maintenance

21 - Lathe -
Applications

22 - Lathe -
Automatic Parts
Loader (APL)

23 - Lathe - Haas
Bar Feeder

24 - Lathe - Haas
Robot Package

20.1 LATHE - MAINTENANCE SCHEDULE

Lathe - Maintenance Schedule

Auxiliary Filter	
Maintenance Item	Interval
Replace the filter bag.	Check the Gauge
Inspect the hoses for cracking.	Six Months
Axis Lubrication	
Maintenance Item	Interval
Inspect grease reservoir level.	Monthly
Inspect the hoses for cracking.	Six Months
Perform an Axis Lubrication Test.	Six Months
Ballscrews/Linear guides equipped with zerk fitting	Monthly or weekly if cutting absorbent materials
Electrical Cabinet	
Maintenance Item	Interval
Clean vector drive air vents / filter.	Monthly
Enclosure	
Maintenance Item	Interval
Inspect window for damage.	Daily
Inspect the door interlock operation.	Daily
Inspect waycovers and lubricate.	Monthly
Gearbox	
Maintenance Item	Interval
Inspect the oil level.	Monthly
Replace the oil.	Annually
Oil Skimmer	
Maintenance Item	Interval
Inspect the oil skimmer pickup tube.	Six Months
Pneumatics	
Maintenance Item	Interval
Inspect the spindle air regulator pressure.	Weekly
Inspect the hoses for cracking.	Six Months
Clean the Air Purge Solenoid.	Annually

Probe System

Maintenance Item	Interval
Check probe calibration.	Six Months

Standard Coolant System

Maintenance Item	Interval
Clean the filter screen.	As Required
Inspect the coolant level.	Weekly
Inspect the coolant concentration. Fill out the Mixture - Maintenance Log sheet.	Weekly
Completely clean the coolant tank and replace the coolant.	Six Months
Verify coolant refill is operating correctly.	Six Months
Inspect turret coolant lines for chips.	Monthly

High Pressure Coolant (HPC) 300/1K PSI

Maintenance Item	Interval
Clean the HPC-300 / 1K Pump Filter	Six Months
Inspect the hoses for cracking.	Six Months
Verify the Auto Clean system is operating correctly.	Six Months

Spindle Lubrication

Maintenance Item	Interval
Inspect lubrication tank level.	Monthly
Perform Spindle Lubrication Test.	Six Months

Hydraulics

Maintenance Item	Interval
Clean chips from the coolant collector.	Weekly
Inspect the oil level.	Monthly
Change the Hydraulic fluid	Every 2 years or as needed per conditions
Replace the oil filter - Parker Hydraulic Unit.	Annually
Replace the oil filter - Rexroth Hydraulic Unit.	Annually
Replace the oil filter - Haas Hydraulic Unit - SL.	Annually

Tailstock

Maintenance Item	Interval
Grease the tailstock.	Monthly
Inspect the reservoir grease level.	Monthly

Chucks

Maintenance Item	Interval
Grease the chuck jaws.	Weekly
Chuck Multi-Point Inspection.	Six Months
Clean the Chuck	Annually

Barfeeders

Maintenance Item	Interval
Grease the bar feed push rod and bushing.	Weekly
Grease the ballscrew, V-roller tracks, and rotation. (Bar 300)	Monthly
Check belt tenstion. (Haas Barfeeder)	Annually
Check push rod alignment.	Six Months