TRAK MACHINE TOOLS
SOUTHWESTERN INDUSTRIES, INC.

PREVENTATIVE MAINTENANCE

28-POINT LATHE CHECKLIST

SERVICE DATE: ____/____/____ **SUPPORT TICKET #:** _____

COMPANY: _____ **#:** _____

SERIAL #: _____ **MODEL:** _____

Complete form by placing a checkmark in the boxes as task are completed.

- **1** ☐ Update software when applicable. Verify Error Logging is turned on (Code 319) for SLX & RLX.
- **2** ☐ Check and adjust level of machine.
- **3** ☐ Fill lube pump. Manually pump oiler and check lube points.
- **4** ☐ Run spindle throughout all gear ranges and RPM's. Note any unusual noises below.
- **5** ☐ Check spindle preload and record value: _____ inlbs.
- **6** ☐ Check alignment X & Z ballscrew.
- **7** ☐ Check drive train assemblies.
- **8** ☐ Use jogstick and turn electronic handwheels. Listen for unusual noises. Note any problems below.
- **9** ☐ Check and adjust spindle motor mounting and belt as needed. Inspect belt.
- **10** ☐ Change headstock gearbox oil if requested (Customer to provide oil).
- **11** ☐ Check spindle brakes. Spindle stop? ☐ **Yes** ☐ **No** (1440 & 1745 models: Check Setting of timer)
- **12** ☐ Inspect Electronic Handwheels, Clean friction pucks as needed.
- **13** ☐ Check alignment of spindle encoder. Inspect encoder coupling.
- **14** ☐ Inspect and adjust X and Z axis servo motor belts.
- **15** ☐ Adjust Gibs and Run Service Codes 12 and 100. (Service Codes 12 & 100 not applicable to RLX products)
- **16** ☐ Calibrate X and Z-axis and check backlash. Record backlash values below.
- **17** ☐ Record Positional accuracy: **X:** ____ **Z:** ____
- **18** ☐ Record Uni-directional repeatability: **X:** ____ **Z:** ____
- **19** ☐ Record Bi-directional repeatability: **X:** ____ **Z:** ____
- **20a** ☐ Run Code 131: Disable Electronic Handwheels.
- **20b** ☐ Run Code 132: Electronic Handwheel test.
- **20c** ☐ Run Code 133: Spindle Encoder test.
- **21** ☐ Check if emergency stop buttons disable Handwheels, Jogsticks, and Spindle.
- **22** ☐ Check all cables and cable connections. All cables should be neat and securely tied.
- **23** ☐ Check coolant pump operation.
- **24** ☐ Inspect way wipers and note the condition.
- **25** ☐ Check headstock alignment. Cut test part. Check for taper. ____ **Taper Over 6"**
- **26** ☐ Inspect indexer. Can you initialize? ☐ **Yes** ☐ **No**
- **27** ☐ Replace Pendant fan filter (N/A on RLX products).
- **28** ☐ Wipe down machine. Clean touchscreen on RLX products.

List potential problems, observations, or recommendations:

TECHNICIAN	NEXT MAINTENANCE DATE

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