

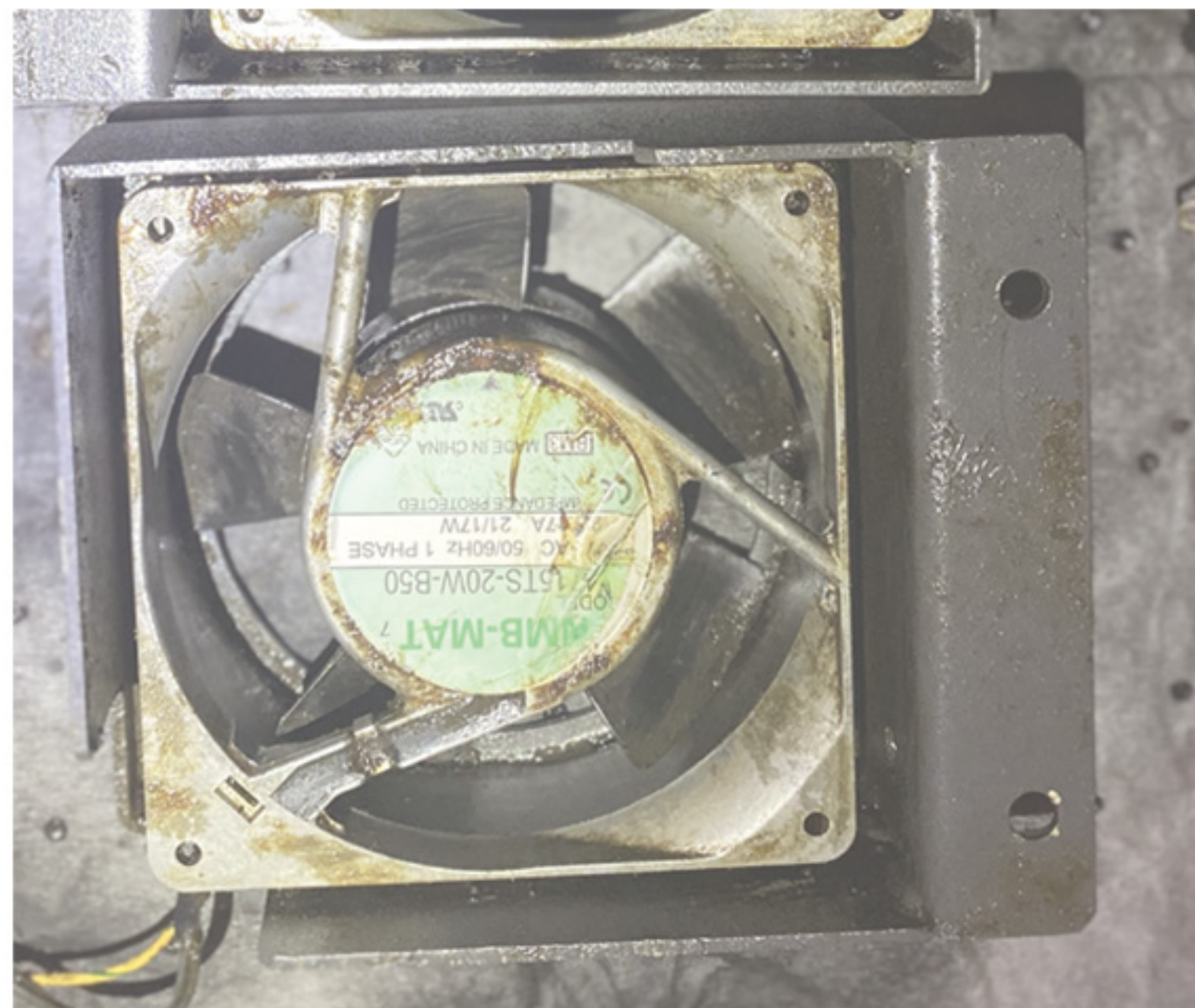
Monitor. Protect. Optimize.

Preventive Maintenance — Built Around Your Shop

Your machines are the backbone of your operation — and your Preventive Maintenance (PM) program should reflect how you run your shop. We work with you to build a program that matches your machines, your production demands, and your preferences — whether that means a full, in-depth service or a focused visit covering only select items.

You choose what's included. We help you build it.

The goal: More uptime. More productivity. Fewer headaches.



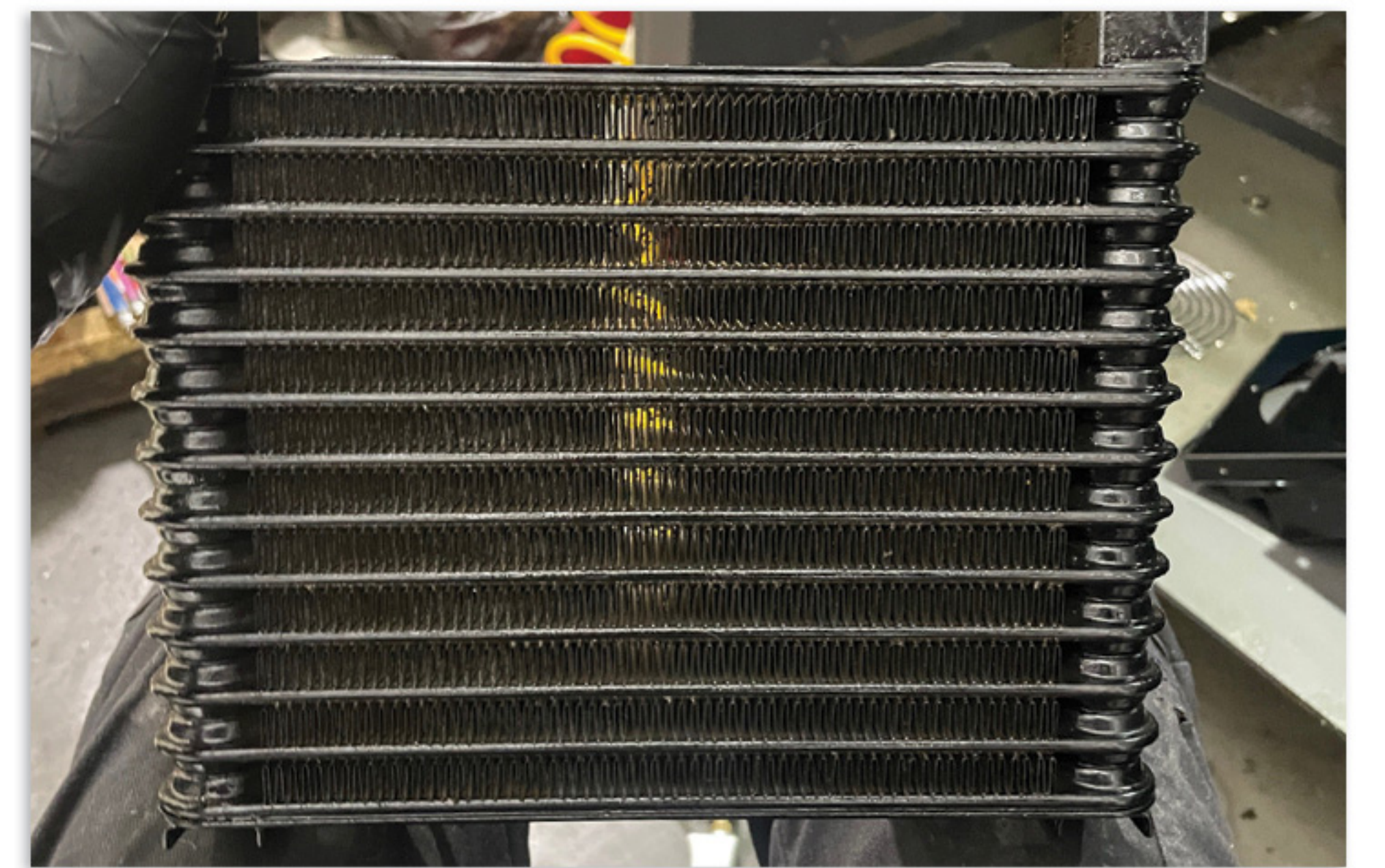
FAN & DRIVE CLEANING

Dirt and gunk buildup can shorten machine life—proper cleaning keeps critical components cool and protected.



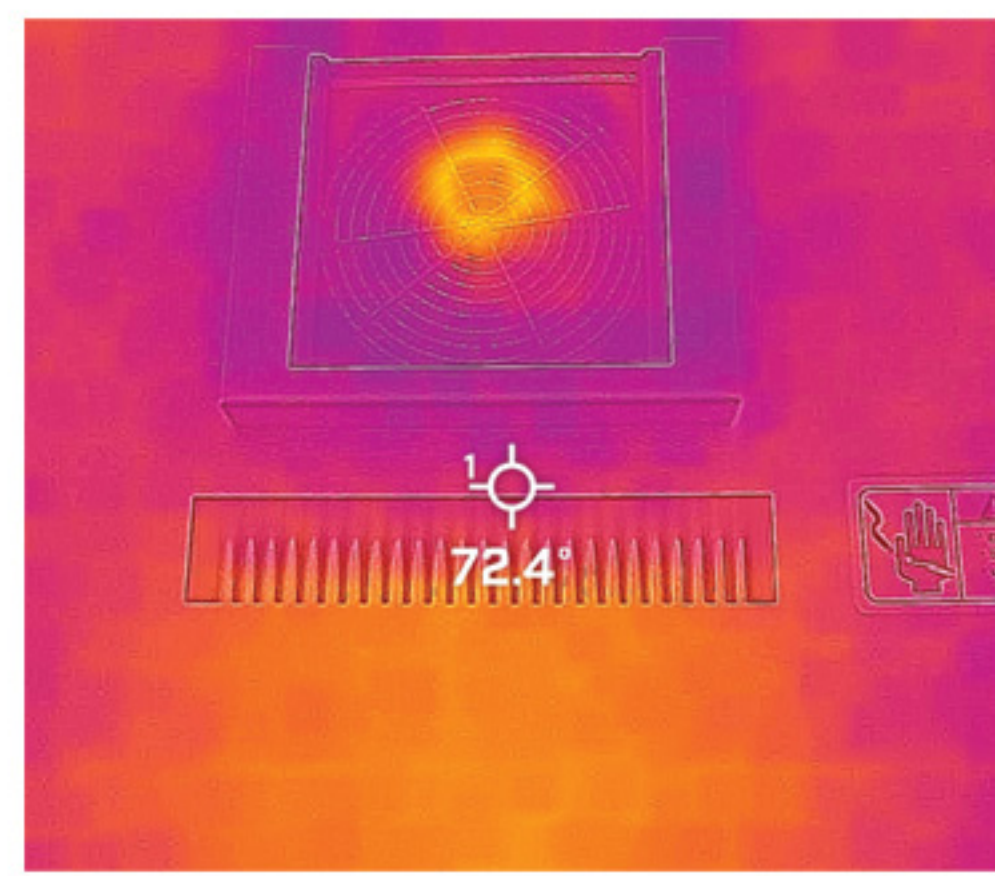
OIL & FILTER SERVICE

Keep your machines running smoothly and extend spindle life with regular oil and filter changes that prevent costly wear and contamination.



HEAT EXCHANGER CLEANING

Improve cooling efficiency and prevent thermal shutdowns. Keep machine temperatures stable and productivity high.



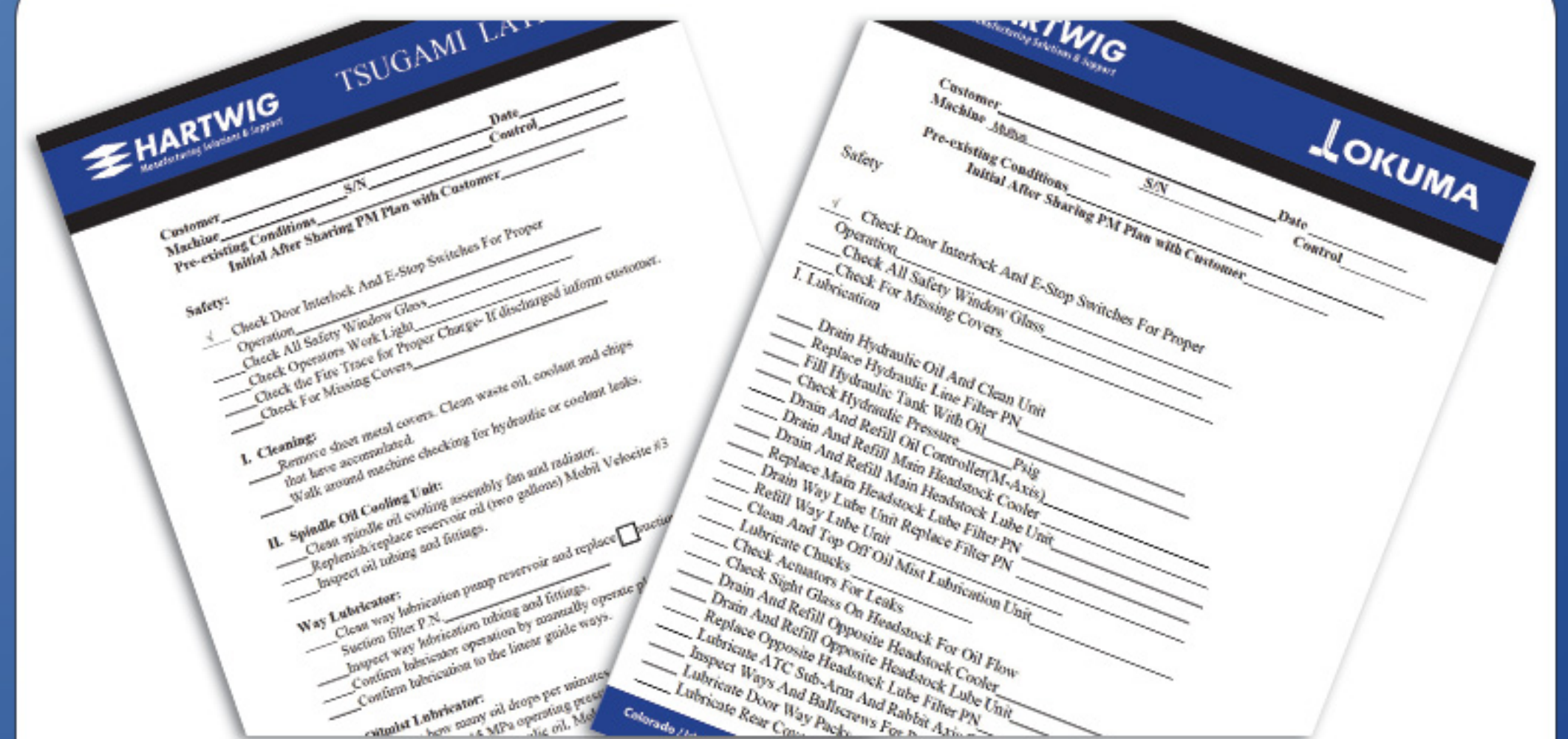
HOT SPOT INSPECTION

Detect electrical or mechanical issues before they lead to failure with thermal imaging that identifies hidden "hot spots" inside your machines.



BELT REPLACEMENT

Avoid unexpected downtime and maintain peak performance to ensure smooth, consistent power transmission.



SAFETY INSPECTIONS

Alignments, accuracy checks, and machine health evaluations that identify issues early—so you can fix them before they turn into costly downtime.

PLANNED MAINTENANCE SCHEDULED AROUND YOU



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Select the PM Services for Hartwig to Perform

Machine Health & Accuracy

- Precision accuracy and geometry checks
- Ball bar testing
- Thermal / infrared imaging
- Documented voltage and pressure readings

Critical System Inspections

- Safety device inspection and verification
- Lubrication system inspection
- Air, hydraulic, and coolant system checks
- Ballscrew, guideway, spindle condition checks
- Radiator, heat sink, fan, and drive cleaning

Fluid & Filter Maintenance

- Oil changes (systems selected by customer)
- Filter replacements (including overlooked filters)
- Lubrication optimization
- Fluid contamination checks with reporting

Mechanical & Wear Items

- Belt inspection and replacement
- Tool changer and magazine inspection
- Pneumatic cylinder and actuator inspection

Stay Ahead of Breakdowns — Not Behind Them

Whether you're looking for a comprehensive PM program or focused check-ins, Hartwig provides prescriptive and preventive maintenance designed to keep you compliant, improve reliability, and support consistent production.

We're ready to help you evaluate your options and put the right plan in place.



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