



**ATS**

Advanced Technology Services, Inc.

[www.advancedtech.com](http://www.advancedtech.com)



# MACHINE HEALTH ASSESSMENT



## Inspection of critical and aging assets is foundational to reliable performance.

Machine condition can have your value streams running at less than full efficiency. Production output losses are never satisfying, but with a machine health assessment from ATS, you'll gain not only a complete understanding of your machine's operational status, but also a prescription for placing it in its highest state of reliability and ROI.

Essentially a physical for your machinery, a machine health assessment can be performed on a single unit or on hundreds of assets across your facility. Depending on the equipment, we can often complete a single assessment within one or two production shifts. With experience across multiple

industrial segments, we strive to gather the maximum amount of information in the minimum amount of time.

There are many logical reasons for a machine health inspection—diminished capacity or excessive scrap/rework; a transition to new product or processes; relocation of equipment; frequent maintenance; part of a planned outage; or ascertaining equipment condition for an upcoming facility sale. A machine health inspection can more than pay for itself—perhaps the best reason to let an experienced ATS field services professional give your machine the diagnosis it needs for a longer, more productive life.

# Machine health requires technical specialists. ATS has them.

To complete your health assessment, ATS will bring in one or more technicians and engineers with direct knowledge of your specific type of equipment. The process includes:



**Thorough analysis and inspection:** Utilizing our five senses, all components, systems, and subassemblies are inspected for wear and appropriate maintenance. We document these findings with pictures and footnotes.



**Non-destructive testing:** This includes vibration analysis, thermography, ultrasound, oil/lubricant analysis, and operator interviews.



**Linear and Rotary Axis Calibration:** CNC machines typically undergo laser interferometer and rotary calibrator testing, as well as ballbar analysis, each to examine accuracy, repeatability, and capabilities within the work envelope.



**Comparison to specifications:** Machine performance is measured against OEM manual specs, relative industry standards, and your production requirements.



**Corrective recommendations:** Each assessment includes a written report that details a risk assessment, prioritized corrective actions, and recommendations for full operational recovery.

ATS machine health assessments are beneficial as a first step in a coordinated maintenance program. Based on the findings, our team will work with your internal or outsourced maintenance staff to define preventive/predictive maintenance practices, identify critical spares, and optimize your maintenance effort.

Whether your goal is to realize maximum value from your primary production machines, gain insight for repair/replace decisions on aging assets, identify root causes of machine failures, or improve production quality, an ATS machine health assessment is fast, minimally intrusive, and cost-effective. Our reliability experts are available to consult on your business objectives, equipment mix, and scheduling requirements.

**Contact an ATS Representative Today!**  
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