

CNC Maintenance and Repair

Since 1983, Precision Service MTR has provided an array of services that achieve a higher standard for tool maintenance and repair. We're dedicated to helping the machining industry operate efficiently, reliably, and cost-effectively. Our innovative CNC machine capabilities and onsite services prevent premature wear and damage, restore original operating conditions, and keep your equipment functioning at its best.

Supporting Operations With CNC Maintenance & CNC

- ▶ CNC machines are an essential part of modern manufacturing. They're capable of performing numerous tasks that transform raw materials into finished parts and assemblies. Utilizing CNC technology in assembly lines or manufacturing environments allows companies to cut, drill, carve, and shape a workpiece quickly, accurately, and repeatably. The precision components that CNC machines produce would be needlessly difficult or even impossible to generate with manual processes.
- ▶ When CNC machines aren't working correctly, manufacturers suffer because of unfulfilled orders, missed deadlines, and lost revenue, customers, and reputation. To prevent costly downtime and its consequences, CNC machines require regular inspections as well as preventative care measures.
- ▶ Optimal CNC maintenance will include a physical evaluation of the control panel and each equipment component. Manufacturers should carry out tasks like checking fluid levels daily, whereas other tasks, like cleaning the radiator or testing for contaminants in the hydraulic system, are monthly or yearly tasks, respectively. CNC maintenance commonly involves:



Checking coolant levels and concentrations



Managing fill levels for lubrication and cooling oils



Changing fluids



Cleaning surfaces, filters, fans, and other parts or systems



Calibrating machinery



Maintaining proper alignment for machine tools, tool changers, and ball bearings



Hand scraping



Replacing old, OEM, and aftermarket components, as needed



Watching for bacterial growth or contamination in any fluids or systems



Performing inspections and testing

- ▶ Sometimes, however, even being proactive about equipment maintenance isn't enough. In those cases, typical CNC components that might need repair include:



Power Supply Units



Spindle and Servo Motors and Drives



Spindle and Ball Screws



Pumps