

# What **DOES** an unexpected machine breakdown look like?

- ✓ Unplanned downtime
- ✓ Potential repair delays
- ✓ Difficulty getting parts
- ✓ Unproductive labor
- ✓ Missed deadlines
- ✓ Backlog of jobs
- ✓ Loss of contract



For tips on daily preventive maintenance for your machine tools, go to [productivity.com/pmtips](http://productivity.com/pmtips)

#### Productivity also offers:

- Rotary Tool Repair
- Live Tool Repair
- Machine Moving Services
- Machine Tool Sales
- Tooling & Accessories
- Advanced Supply Services
- Robotics & Automation
- Engineering Services
- Training
- Used Machines

Go to:

**PRODUCTIVITY.COM**



Productivity Inc®



Productivity Inc®

Because  
**UNEXPECTED**  
machine  
failure is  
**NOT**  
an option.

# Prevent machine failure before it occurs.

## See **WHY** a Preventive Maintenance Plan Can **BENEFIT** Your Shop.

- + Production down time is reduced.
- + Extends the life of your machine tools.
- + Rejects, scrap, and rework are reduced due to the machine tool being maintained and in good operating condition.
- + Less time is spent on additional equipment setup and adjustments due to components wearing out.
- + Part replacement costs are reduced and can be planned and budgeted, as repairs are made on a scheduled basis.
- + Maintenance records may serve as a machine tool service history report if it is ever sold.

+ Well maintained equipment provides a safer working environment.

+ Saving you money by getting your machine tools up and running sooner.



*Over time, preventive maintenance service pays for itself.*

Glenn Miller  
Preventive Maintenance Manager

## See **WHAT** Productivity's Preventive Maintenance Can **DO** For Your Shop.

+ **Flexible Service Levels**  
Productivity will tailor a service program to fit your needs and budget. From a single machine to 50 plus machines, we have a plan for your shop.  
We can even build a plan based on our company's ISO requirements.

+ **Managed Service Plans**  
Productivity manages your tailored service plan by providing dedicated personnel, easy scheduling and annual service reminders.

+ **We Work with Your Production Schedule**  
We can plan your preventive maintenance around your scheduled machine downtime so your machines are up and running when you need them to be.

+ **Service on Most Makes & Models**

Whether you purchased your machine from Productivity or not, we can perform service on most any machine tool.

+ **We Have the Tools**  
Technicians arrive with tools and parts to get the job done the first time.

+ **Experienced & Certified Technicians**  
Service is performed by factory-certified, knowledgeable and courteous technicians. They even clean up once the job is done!

+ **Accurate Record Keeping & Reports**  
Our maintenance records may serve as a machine tool service history report if ever sold.



## See the list of some of the services Productivity's Standard **PREVENTIVE MAINTENANCE** includes below:

### Mechanical System

- Check machine level
- Verify spindle sweep
- Check gear shift operation\*
- Check spindle orientation alignment
- Change gearbox oil
- Inspect drive belt
- Inspect & adjust tool changer system
- Inspect spindle taper condition
- Inspect way cover wipers
- Check tool change operation
- Clean/lubricate tool changer
- Inspect counterbalance system
- Check & adjust X, Y, Z backlash
- Inspect lines, hoses and cables

### Electrical System

- Clean electrical cabinet
- Check voltages
- Inspect connections/terminal
- Inspect grounds
- Replace or clean fan filter
- Check limit switches/safety locks
- Check motor brushes
- Keypad operation
- Check all fans

\* Where applicable

### Way Lube System

- Clean filters
- Inspect lines and fittings
- Verify lube/pump operation

### Coolant System

- Operation check of pump & motor
- TSC Systems\*

### Air System

- Clean filters
- Check pressure/adjust regulator
- Inspect system for leaks

### Lathe Preventive Maintenance Only

- Verify turret/spindle alignment

### Optional Special Services:

- **Ball Bar Analysis** - Tests circularity and verifies the positioning accuracy and repeatability of your machine tool.
- **Vibration Analyzer** - Measures and records machine vibration characteristics within the drive system. Verifies machine vibration against established criteria. Use as a benchmark for future tests.

**Get a Quote**  
at 763.745.1161 or pm@productivity.com