

## **PREVENTATIVE MAINTENANCE**

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With today's ever increasing demand for productivity, even the best made equipment needs to be properly maintained. In the past, the ideology was, "If it's not broken, don't fix it." A better way to approach machine maintenance is, "If it's not broken, let's keep it that way." Completing timely maintenance on the machine tool over time will minimize catastrophic breakdowns and will reduce the total cost of ownership. Machines will work at full efficiency creating profitable uptime, while reducing downtime. Problems are recognized earlier and the chances of complete machine breakdown are reduced.

### *Preventative Maintenance Check List*

#### **Machine Base**

Verify machine is level  
Inspect Leveling Screws

#### **Hydraulic System**

Hydraulic Filters  
Verify Oil Level (Replace Hydraulic Oil Every 12 Months)  
Verify Oil Temperature  
Inspect for Leaks  
Check for any worn/broken hoses

#### **Lubrication System**

Verify Lubrication Oil Level  
Verify Lubrication Blocks are working properly  
Check for worn/broken lubrication lines

#### **Spindles- Grinding Wheel & Regulating Wheel**

Verify Spindle Bearing Clearance  
Check for Leaks  
Verify Spindle Temperature  
Verify Spindle Pressures

#### **Truing/Dressers**

Inspect Condition of Ways  
Inspect Way Covers  
Adjust Gibs  
Check condition of anti-backlash screw & nut assembly/ ballscrew  
Verify Lubrication Blocks are working properly

#### **Upper Slide, Lower Slide, Swivel Plate**

Inspect Condition of Ways  
Adjust Gibs  
Inspect Ballscrew Cover  
Check for excessive wear on Ballscrew  
Inspect Way Wipers

Verify Lubrication Blocks are working properly

### **Regulating Wheel Drive Unit**

Inspect overall condition of the unit installed (OEM Drivebox/Aftermarket Servo Drive)

Inspect Belt Condition

Verify proper chain tension

### **Grinding Wheel Drive Unit**

Make sure Grinding Wheel Motor is securely mounted

Inspect overall condition of grinding wheel belts

Check for excessive vibration

### **Requirements of the Customer**

In order for us to perform the preventative maintenance to the best of our ability, we ask that the customer please do the following prior to our arrival:

- Verify all areas of the machine are easily accessible
- Move coolant tanks, mist collectors, gauging, etc that may hinder access to certain areas of the machine
- All special guarding that is not OEM be removed from the grinder
- In certain circumstances we may ask that the grinding wheel be dismounted from the machine prior during our preventative maintenance procedure