

# **BEARDEN ENGINEERING INC.**

## **PREVENTATIVE MAINTENANCE CHECKLIST**

### **PM**

#### **- - Okuma Lathe - -**

##### FORM INSTRUCTIONS:

- (1) Technician will supply all the correct tools, forms and information to perform the PM.
- (2) The customer will provide all the needed supplies, such as rags, cleaning supplies, fluids and operator if needed.
- (3) Insure all blanks are filled in.
- (4) Complete a Parts Order form after performing the checks, listing all parts in question
- (5) Verify: Technician signature \ date and Customer printed name \ signature.

**Customer** \_\_\_\_\_ **Contact** \_\_\_\_\_ **PO#** \_\_\_\_\_  
**Address** \_\_\_\_\_ **City** \_\_\_\_\_ **State** \_\_\_\_\_ **Zip** \_\_\_\_\_  
**Phone** \_\_\_\_\_ **Fax** \_\_\_\_\_  
**Model** \_\_\_\_\_ **Serial No.** \_\_\_\_\_  
**Control** \_\_\_\_\_ **Last PM Date** \_\_\_\_\_

# CHECK LIST AND DETAILS OF WORK PERFORMED

Inspect the Machine for overall condition, coolant leaks, oil leaks, noisy spindle, belts, vibrations etc. List any problems or customers concerns.

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## CONTROL

- Console lights info: \_\_\_\_\_
- Console switches info: \_\_\_\_\_
- Console membrane info: \_\_\_\_\_
- Lamp tower (if available) info: \_\_\_\_\_
- Console \ door keys, any missing \_\_\_\_\_

## ELECTRICAL CABINET

Check: The Electric Cabinet for oil or other fluid build up.

Note any problems \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Voltage at Machine, (after transformer) R-S \_\_\_\_\_, R-T \_\_\_\_\_, S-T \_\_\_\_\_
- Voltage at Machine, phase to gd R \_\_\_\_\_ S \_\_\_\_\_ T \_\_\_\_\_
  
- Heat exchanger fans info: \_\_\_\_\_
- Card cage cooling fans info: \_\_\_\_\_
- Vac drive unit fans info: \_\_\_\_\_
- Vac motor fan info: \_\_\_\_\_
  
- Wiring, cat tracks straighten wiring if necessary info: \_\_\_\_\_
  
- Door lock, seals info: \_\_\_\_\_

## FLUIDS AND LUBRICATIONS

All oils / lubes are the responsibility of the customer to provide, if on site, the Tech will fill / grease

- |   |             |
|---|-------------|
| <input type="checkbox"/> Hydraulic pressure             | info: _____ |
| <input type="checkbox"/> Hydraulic fluid level          | info: _____ |
| <input type="checkbox"/> Hydraulic unit heat exchanger  | info: _____ |
| <input type="checkbox"/> Chuck clamp pressure           | info: _____ |
| <input type="checkbox"/> Sub chuck / Tailstock quill    | info: _____ |
| <input type="checkbox"/> Tailstock clamp press          | info: _____ |
| <input type="checkbox"/> Air pressure                   | info: _____ |
| <input type="checkbox"/> Way lube operation             | info: _____ |
| <input type="checkbox"/> Way lube timer interval        | info: _____ |
| <input type="checkbox"/> Spindle chiller operation      | info: _____ |
| <input type="checkbox"/> Spindle chiller lube level     | info: _____ |
| <input type="checkbox"/> Spindle chiller heat exchanger | info: _____ |

## WORK ENCLOSURE

- |  |             |
|--|-------------|
| <input type="checkbox"/> Door Seals              | info: _____ |
| <input type="checkbox"/> Door locking device     | info: _____ |
| <input type="checkbox"/> Lights / lenses         | info: _____ |
| <input type="checkbox"/> Telescoping cover seals | info: _____ |

## OPERATIONS

- |  |  |
|--|--|
| <input type="checkbox"/> Spindle noise at various speeds<br>Verify gear ranges, directions | info: _____  |
| <input type="checkbox"/> Axis noise at 100 percent feed rate                               | XA: _____<br>ZA: _____<br>XB: _____<br>ZB: _____<br>W: _____ |
| <input type="checkbox"/> Spindle orientation   | info: _____  |
| <input type="checkbox"/> Operation of C axis   | info: _____  |
| <input type="checkbox"/> Operation of M tool   | MA / MB _____  |
| <input type="checkbox"/> Operation of Tailstock quill                                      | info: _____  |
| <input type="checkbox"/> Operation of tailstock clamp                                      | info: _____  |
| <input type="checkbox"/> Operation of parts catcher  | info: _____  |
| <input type="checkbox"/> Operation of Auto doors   | info: _____  |



## FINAL CLEAN UP

### Technician's notes

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**Clean and wipe machine, inside work enclosure and outside sheet metal**

**Review all areas of chip build up, other areas of concern**

**Provide basic maintenance training and machine overview with customer**

**Complete all paperwork indicating missing, broke or damage items on the machine.**

Service Technician Signature \_\_\_\_\_ Date: \_\_\_\_\_

Customer Name Print \_\_\_\_\_

Customer Signature \_\_\_\_\_