

# ROBODRILL

## Preventive maintenance



**Preventive maintenance of your ROBODRILL maximises uptime and reduces your down time to a minimum. Below you will find a detailed overview of what FANUC means by preventive maintenance. Maintenance is carried out strictly in accordance with the current DIN EN ISO 9001 standard and is concluded with an inspection report.**

Maintenance intervals are adapted to the customer-specific, operational requirements after consultation (approx. every 2,000 operating hours or 1x per year).

### **MACHINE (GENERAL)**

- Check tool change position
- Functional testing of protective and safety elements
- Check spindle motor fan (clean if necessary)
- Check/correction of the geometry in relation to the machine
- Replace filter mats on the control cabinet
- And more ...

### **SPINDLE & TOOL CHANGE**

- Measuring spindle concentricity
- Lubrication tool change mechanism
- Measure tool pull-in force
- And more ...

### **CNC CONTROL**

- Backup
- Battery
- Condition check
- Fan check
- Servoguide quick condition check
- And more ...



CNC SYSTEMS



ROBOTS



ROBODRILL



ROBOSHOT



ROBOCUT

**FANUC**

# ROBODRILL

## Preventive maintenance

### GENERAL

- Check tool change position
- Functional testing of protective and safety elements
- Check internal machine lighting
- Check central lubrication (hoses, pump, distributor, function)
- Control/inspection/cleaning of the compressed air unit and dehumidifier
- Check/test of input voltage
- Check DDR/DDR-T brake/Brake disk check (if applicable)
- Check spindle motor fan
- Check/correction of the geometry in relation to the machine
- Control and adjustment of machine level as required
- Check operator door rollers and rubber bumpers
- Measure machine and table geometry
- Check guides and wipers in all axes for wear and damage
- Visual inspection of the LM guides in all axes
- Visual inspection of the ball screws in all axes
- Check tool gripper and grease
- Check gear wheel on spindle/WZW
- Lubrication tool change mechanism
- Fan Check CNC control and axis amplifier
- Check IKZ for tightness
- Visual inspection of the Z-axis cover
- Visual inspection of cables & cable guides for damage
- Replace filter mats on the control cabinet
- Check rubber buffers under axle covers for wear
- Replacing pulse decoder batteries
- Replace CNC battery
- Check spindle load
- Measure tool pull-in force
- Measuring spindle concentricity
- Note software version
- Data backup/backup
- Milling programs, NC parameters and PMC parameters
- Reset the maintenance counters in the maintenance screen
- Servoguide quick condition check

### PARTS INCLUDED

- Filter mats
- Battery CNC
- Battery XX
- Grease
- CAM follower
- Optional for DDR/DRR-T: O-rings, V-rings

### REPORT

- (Annual) status report/PM report in line with latest DIN EN ISO 9001 norm
- Final discussion/consultation

**Service First** 

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