

## Preventive Maintenance Manual

### **1. Clean the Machine and Chiller Daily**

Remove dust, debris, and residual water from the machine and chiller to keep the equipment clean and in good working condition.

### **2. Check the Chiller Water Daily**

Inspect whether the cooling water is clean, confirm that the water level is sufficient, and ensure the water temperature is within the normal operating range.

### **3. Clean the Chiller Dust Filter and Cooling Fins Weekly**

Use clean compressed air to remove dust from the filter screen and cooling fins to ensure proper heat dissipation.

### **4. Clean Exhaust Fans and Air Pipes Weekly**

Remove the fan covers and clean accumulated dust. Clear debris inside the air pipes to prevent blockage and ensure smooth airflow.

### **5. Clean the Power Supply of the Laser Source and Scanner Monthly**

Use clean compressed air to remove dust inside the power supply unit to maintain stable performance.

### **6. Replace the Chiller Water Monthly**

Clean the water tank, drain the used cooling water, and refill with new purified cooling water. Check the filter element and replace it if yellowing or blockage is found.

### **7. Clean the Computer Quarterly**

Use clean compressed air to remove dust from inside the computer to ensure stable system operation.

### **8. Inspect the Electrical Control System Quarterly**

Check the electrical control cabinet, control cards, and all machine wiring. Ensure there are no loose connections or aging wires.

### **9. Clean the Optical Lenses as Needed**

Use an air blower to remove surface dust first, then gently clean the lens using lens paper or absorbent cotton with absolute ethanol (99.8% purity).

### **10. Clean the Worktable Regularly to Prevent Fire Hazards**

Remove paper scraps, leather debris, and other laser processing waste from the worktable promptly to prevent fire risks.