



MAINTENANCE GUIDE · SMT & PCB EQUIPMENT

Equipment Maintenance Standards

Daily, weekly, monthly and long-term storage maintenance standards for SMT placement machines, soldering equipment, glue dispensers, AOI instruments and PCBA testers.

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This document is the printed version of the maintenance guide published at jhims.net/maintenance-guide. Keep the maintenance record sheet with the machine log — we check it when handling warranty applications. Misuse or maintenance that violates the operation manual voids free warranty service. Specifications of wearing parts (grease grade, filter interval, calibration tolerance) follow the machine manual delivered with each unit.

— MAINTENANCE GUIDE · SMT & PCB EQUIPMENT

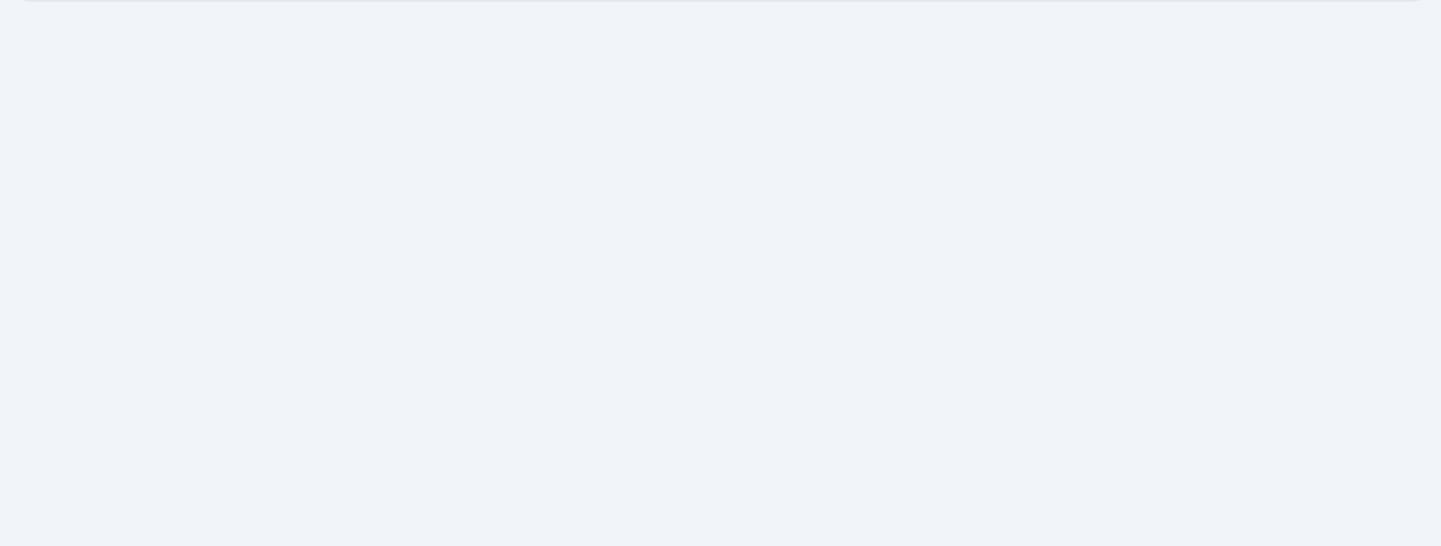
Maintenance Guide

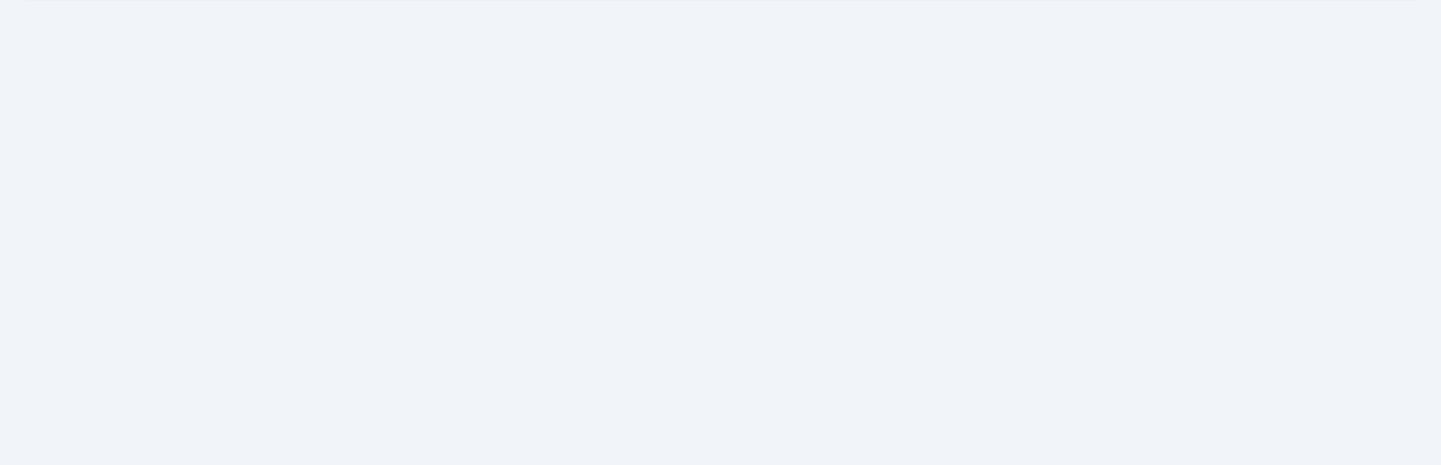
Keep Your Production Line Running Steady — Master Scientific Equipment Maintenance Standards

This guide covers every SMT placement machine, soldering machine, glue dispenser, AOI instrument and PCBA tester we deliver. It sets the daily, weekly, monthly and long-term storage maintenance standards that cut failure rates, extend precision-equipment life and prevent unexpected shutdown losses in mass production. Operators and maintenance staff must follow it as written.

[Talk to a Maintenance Engineer](#)

[Read the Daily & Weekly Standards](#)



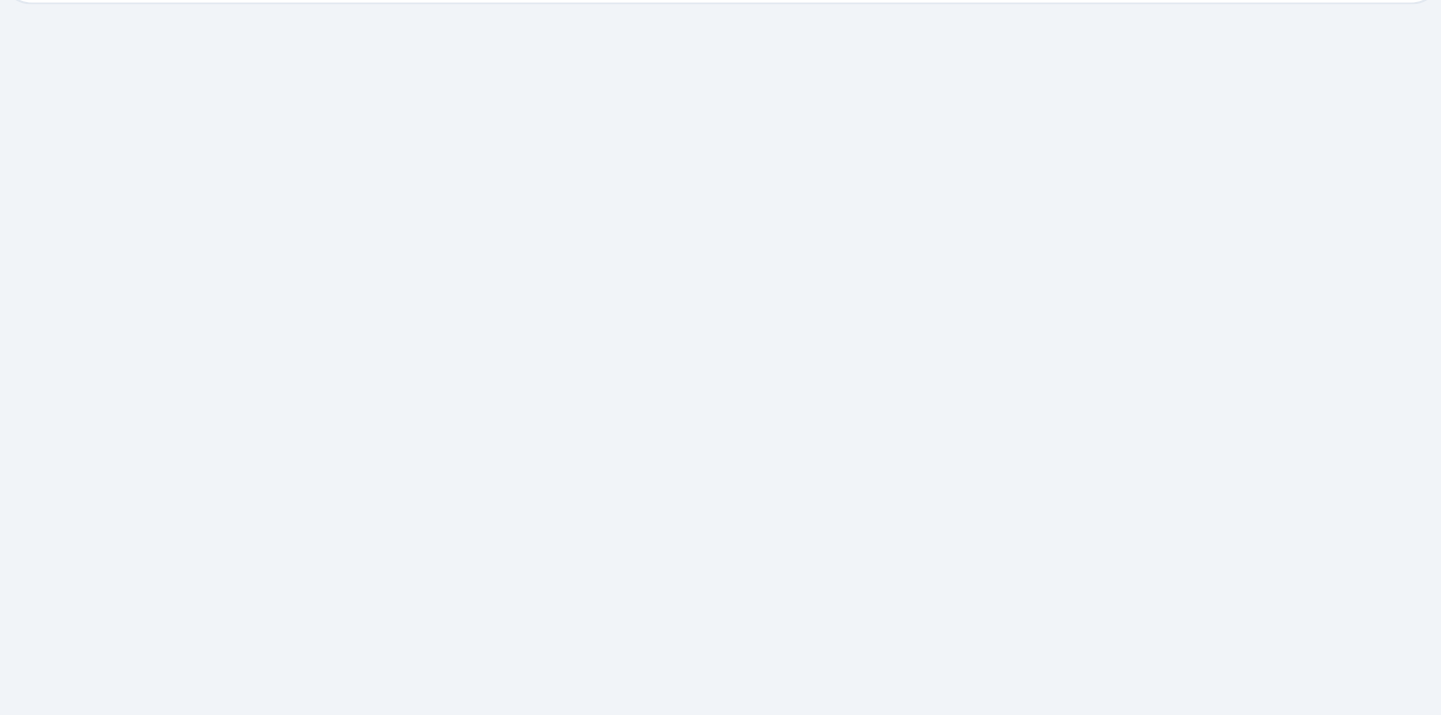


- Lubricate all linear guide rails, ball screws and rotating bearings with the designated high-temperature grease. Do not use inferior lubricating oil — it causes precision wear.
- Tighten the fixing screws of the motor, fixture and worktable, so loose parts cannot cause positioning errors during high-speed operation.
- Clean the filter element of the air compressor and the water filter, replace blocked filter cotton, and keep air intake and water circulation smooth.
- Calibrate XY axis running accuracy, component positioning coordinates and the optical recognition benchmark; correct slight deviations to guarantee the assembly precision of PCBA products.
- Check the circuit connection of the main control cabinet and clean accumulated dust from the circuit board with a cold air blower, preventing short circuits caused by dampness and dust.
- Inspect the wear of conveyor belts, rollers and transmission chains; replace severely worn accessories in advance to avoid sudden breakage during production.

- Conduct a full inspection of core electrical components — servo motors, drive modules, solenoid valves and power supply modules — and test operating current and temperature to eliminate hidden troubles.
- Disassemble and clean the precision moving mechanism, remove internal oil dirt and metal powder, and re-add lubricant at the standard dosage.
- Check the sealing performance of air cylinders and oil cylinders, and replace aging sealing rings to prevent air leakage and oil leakage.
- Back up the machine system program, parameter file and product production program, to avoid data loss caused by system failure.
- Test the safety protection system, including overload protection, anti-collision protection and the emergency stop function.
- Count the loss of wearing parts, make a spare parts plan, and stock nozzles, seals, filter elements and other consumables in advance.

- Clean the whole machine thoroughly, remove all residues, and coat the metal shaft and precision fixtures with anti-rust oil.
- Lift the conveyor belt to keep it relaxed, avoiding permanent deformation caused by long-term compression.
- Cut off the main power supply, cover the equipment with waterproof and dustproof tarpaulin, and place it in a dry, constant-temperature warehouse without corrosive gas.
- Turn on the power and run the machine for 1 to 2 hours every two weeks, to prevent the circuit board from becoming damp and the mechanical parts from rusting.

- Do not blow dust off the circuit board with high-pressure hot air — it burns out precision chips.
- Do not arbitrarily adjust motor speed, running stroke or system parameters without guidance from our technical engineers.
- Do not use water to flush the interior of the electrical cabinet — it causes short circuits and permanent damage to electrical components.
- Do not operate the equipment in an environment of excessive dust, high humidity, voltage fluctuation or violent vibration.
- Do not disassemble the precision spindle, optical camera or original core components without authorisation — private disassembly voids the warranty.





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