

Platform Laser Welding Machine Maintenance Checklist

No.	Maintenance Item	Method	Frequency
1	Linear module guide	Apply lubricant oil evenly along the guide rail.	Once every 3 months
2	Linear module ball	Apply lubricant oil evenly along the ball screw.	Once every 3 months
3	Water chiller dust filter	Remove and clean dust with compressed air or a soft brush.	Once a month or as needed
4	Water chiller temperature and coolant	- When ambient temperature < 0°C, add appropriate antifreeze. - When ambient temperature > 10°C, drain the	As needed
5	Idle water chiller	If the equipment is not used for a long period, drain all cooling water.	Before shutdown period
6	Laser fiber cable	The bending radius of the fiber must not be less than	Continuous care
7	Working table surface	Keep the surface clean and free from scratches or	As needed
8	Laser head	After welding, install a dust-proof cover to protect the lens and keep the head clean.	After each use
9	Electrical wiring	Ensure all connections match their labeled terminals. Note: Machines below 2kW use single-phase 220V; machines ≥3kW require three-phase 380V.	During setup or maintenance
10	Main machine grounding	The main unit must have a dedicated ground connection for safe operation.	Always (critical)