

PREVENTIVE MAINTENANCE · EUROPEAN-BUILT DMG MORI

DMG MORI Preventive Maintenance Checklist

A general preventive-maintenance routine that fits the majority of European-built DMG MORI machining centers and turning centers (Siemens, Heidenhain, and MillPlus controls). Intervals follow DMG MORI's running-hour structure, expressed here as daily, weekly, monthly, semi-annual, and annual tasks. Always defer to your specific machine's manual for exact lubricants, fill quantities, and torque values — when in doubt, call a factory-trained specialist.

How to use: print, clip to the machine, and tick each task as it's completed. Record the date and initials at the bottom of each sheet. Lubricant grades (e.g. way oil, spindle oil, hydraulic oil) are machine-specific — confirm against your lube chart.

DAILY / EVERY SHIFT ~ every 8 hrs					
TASK	W1	W2	W3	W4	W5
Clean the control panel, screen, and operator desk Wipe down; check the function/agreement buttons respond.					
Check coolant level and concentration Top up to spec; verify mixture ratio with a refractometer.					
Check central lubrication reservoir level Top up with the specified lubricant before a low-level fault.					
Check hydraulic unit fill level and pressure Confirm pressure on the gauge sits in the normal band.					
Check pneumatic pressure and drain condensate Drain water trap; confirm air pressure at the regulator.					
Clean chips from the machining compartment Clear the work area, chip conveyor inlet, and collector gutter.					
Visual check of way covers, bellows, and wipers Look for damage, chip pack-up, or torn telescopic covers.					
Clean and spray the spindle taper Wipe the taper; apply a light protective spray (e.g. CRC 3-36).					
Confirm E-STOP and guarding function Quick function test of E-STOP and door interlocks.					

WEEKLY						~ every 50 hrs
TASK	W1	W2	W3	W4	W5	
Clean and lightly oil the exposed guideways Wipe rails, check wiper/scrapper condition, apply way oil.						
Grease/lubricate linear axes per lube chart X / Y / Z (and B / C where fitted) to the specified grease.						
Clean the chip conveyor and chip catcher Remove build-up; check belt/scrapper tracking.						
Clean the coolant tank screens and check filter Clear swarf from baskets; inspect the coolant filter.						
Check tool clamping / drawbar operation Verify clamp-force feel and clean tool-holder contact faces.						
Clean inspection / safety windows and check for damage Polycarbonate windows lose retention capability with age.						
Clean the tool magazine pockets and grippers Wipe tool seats; clean twin-gripper; check chain tension.						

BIWEEKLY						~ every 250 hrs
TASK	B1	B2	B3	B4	B5	B6
Clean the electrical cabinet AC unit / cooling unit Clean fins/lamellae, check condensate drain, inspect filter mat.						
Replace or clean the cabinet cooling filter mat Replace when loaded; a blocked mat is a top cause of overheat faults.						
Clean the machine heat exchanger / chiller filter Check coolant level and mixture in the chiller circuit.						
Inspect hoses, lines, and fittings for leaks Hydraulic, pneumatic, and coolant lines — look for weeping joints.						
Lubricate tool-magazine guide and sprockets Per the magazine lube points; verify chain tension.						
Check measuring-probe operation and clean Wipe probe stylus/contacts; check cables and connections.						
Inspect way-cover scrapers; replace if worn Worn scrapers let chips onto the rails and accelerate wear.						

SEMI-ANNUAL ~ every 500-1000 hrs		
TASK	H1	H2
Change central-lubrication / hydraulic oil as scheduled Follow the specified oil grade and the machine's hour interval.		
Service the pneumatic unit (filter, regulator, lubricator) Replace pre-filter element; clean the filter housing.		
Replace coolant and deep-clean the coolant tank Full drain, tank clean-out, and refill to concentration spec.		
Check axis backlash and geometry indicators Watch for drift; flag for a laser/ballbar check if out of trend.		
Replace measuring-probe battery Proactive swap avoids a dead-probe stoppage mid-job.		
Inspect spindle for runout, noise, and temperature trend Early bearing wear shows as heat and runout before failure.		

ANNUAL ~ every 2000 hrs	
TASK	DONE
Full spindle inspection (runout, bearing condition, draw-bar force) Baseline against original spec; schedule rebuild before failure.	
Geometry / accuracy verification (laser, ballbar, or indicator) Document results; correct compensation tables as needed.	
Have the hard disk / control storage checked DMG recommends a periodic check (roughly every 3–5 years).	
Inspect and service turret / tool changer mechanics Indexing accuracy, clamp force, and wear-part condition.	
Verify all safety circuits, interlocks, and E-STOP chain Full functional safety check and documentation.	
Replace scheduled wear parts (scrapers, seals, filters) Plan the parts list ahead so the PM day isn't a parts hunt.	

Completed by	Date	Machine / asset	Supervisor audit

This checklist is provided by ALL CNC Service & Sales LLC as a general guide and is not a substitute for the machine manufacturer's documentation. It is based on standard preventive-maintenance practice for European-built DMG MORI machines and does not reproduce any manufacturer's copyrighted material. Verify all lubricants, intervals, and procedures against your specific machine's manual before performing service. For spindle service, OEM Sauter turret repair, geometry verification, or on-site support, contact ALL CNC Service & Sales LLC.