

Monthly Preventive Maintenance for Bodymaker Machine

This PM is designed to ensure the reliable operation and longevity of the bodymaker machine used in aluminum can production. It includes lubrication, inspection, cleaning, and adjustment tasks to prevent unplanned downtime and ensure product quality.

Priority	High	Work Order #	#163
Due Date	Dec 16, 2024 8.30 PM	Category	Routine Inspection
Asset	Bodymaker 1	Status	Scheduled
Location	Shopfloor	Team	Mechanical Team
Model	2023	Technicians	
Serial	#456	Estimated Duration	5h

Checklist

MACHINE PREPARATION						
Confirm the area is clear of unauthorized personnel.	<input type="checkbox"/>	PASS	<input type="checkbox"/>	FAIL	<input type="checkbox"/>	N/A
Ensure adequate lighting and a clean workspace.	<input type="checkbox"/>	PASS	<input type="checkbox"/>	FAIL	<input type="checkbox"/>	N/A
Check for proper ventilation around the machine.	<input type="checkbox"/>	PASS	<input type="checkbox"/>	FAIL	<input type="checkbox"/>	N/A
Turn off and lock out/tag out the machine power supply.	<input type="checkbox"/>	PASS	<input type="checkbox"/>	FAIL	<input type="checkbox"/>	N/A

LUBRICATION AND FLUID LEVELS						
Inspect and refill lubricant reservoirs as per the manufacturer's recommendation.	<input type="checkbox"/>	PASS	<input type="checkbox"/>	FAIL	<input type="checkbox"/>	N/A
Check lubrication lines for blockages or leaks.	<input type="checkbox"/>	PASS	<input type="checkbox"/>	FAIL	<input type="checkbox"/>	N/A
Test the automatic lubrication system functionality.	<input type="checkbox"/>	PASS	<input type="checkbox"/>	FAIL	<input type="checkbox"/>	N/A

Check and top up coolant levels.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Inspect coolant lines for leaks or blockages.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Ensure the coolant pump is operating properly.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A

CLEANING AND INSPECTION

Check hydraulic fluid levels and replace if dirty or low.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Inspect hydraulic hoses for wear, cracks, or leaks.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Inspect belts and pulleys for tension and cracks.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Check the stripper assemblies for wear.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Check for visible wear or damage on mechanical components like punches, dies, and mandrels.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Clean dies and tools to remove residue.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Remove aluminum shavings and debris from the machine base and operational areas.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Inspect the ram for alignment and cleanliness.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A

ALIGNMENT AND ADJUSTMENT

Verify the alignment of the punch and die sets.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Adjust to correct tolerances if necessary.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Ensure the ram stroke is within specifications.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Adjust stroke length if needed.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A

Verify the proper operation of the stripping mechanism.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Adjust the tension or alignment as required.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A

ELECTRICAL SYSTEM CHECK			
Inspect electrical panels for loose connections, burnt wires, or signs of overheating.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Check for unusual vibrations or noise during operation.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Inspect motor couplings and ensure proper alignment.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Replace any faulty components.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Test limit switches, proximity sensors, and other controls for proper functionality.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Tighten connections and address any irregularities.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A

FINAL CHECKS AND TEST RUN			
Reassemble all components and ensure all bolts and fasteners are tight.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Remove lockout/tagout devices and restore power.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Conduct a test run to ensure smooth operation without anomalies.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Log all maintenance activities and observations.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Report any irregularities or components requiring replacement.	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A

Materials

#	Part	Planned	Used	Remarks
1	Axial flow fans	(1)	()	
2	Bearing Assembly	(1)	()	
3	Capacitor	(1)	()	

Timelogs

#	Technician Name	Hours Worked	Remarks
1	Maneman Eliman	()	
2	Sujith Jeewantha	()	

Completion Details

Completion Date: _____

Technician Notes: _____

Technician Signature: _____

Date: _____ Name: _____