



MANUFACTURING LINE  
**SHUTDOWN AND RESTART**  
CHECKLIST

Date of Shutdown \_\_\_\_\_

Date of Restart \_\_\_\_\_

Machine Name \_\_\_\_\_

Machine Number \_\_\_\_\_

Department \_\_\_\_\_

Technician(s) Names and Number \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Operator(s) Names \_\_\_\_\_

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# MANUFACTURING LINE SHUTDOWN CHECKLIST

Steps to follow	Scheduled	WIP	Completed
<b>#1 - End of production sequence</b> <ul style="list-style-type: none"><li>▶ Make sure all components have been removed automatically Glue, parts, liquid, and powder should have been removed from the production path. If necessary, remove designated elements manually</li></ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>#2 - Air purge</b> <ul style="list-style-type: none"><li>▶ Release air through the pressure valve</li><li>▶ Make sure that the air pressure accumulator is relieved if equipped</li></ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>#3 - Cleaning of the machine</b> <ul style="list-style-type: none"><li>▶ Clean the product line from any residual elements:<ul style="list-style-type: none"><li>▶ Purge air line</li><li>▶ Clean filters</li></ul></li><li>▶ Remove all dirt and Foreign Object from the equipment</li></ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>#4 - Preventive maintenance</b> <ul style="list-style-type: none"><li>▶ Follow your company preventive maintenance program or use the operation and maintenance manual from your partners</li><li>▶ Fill up spare parts and components' list</li></ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>#5 - Environmental</b> <ul style="list-style-type: none"><li>▶ Make sure that your equipment is in a stable environment, control temperature, humidity, and cleanliness</li><li>▶ Check ventilation every week to avoid moisture or humidity</li><li>▶ If approved, proceed to WD40 spray on certain elements</li></ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>#6 - Protection</b> <ul style="list-style-type: none"><li>▶ Put all protection devices in place to avoid any unintentional start</li><li>▶ Use a protection (ie tarp) for your entire equipment</li></ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>#7 - Electricity</b> <ul style="list-style-type: none"><li>▶ Make a backup of all your machines:<ul style="list-style-type: none"><li>▶ PLC</li><li>▶ HMI</li><li>▶ Robots</li></ul></li><li>▶ Replace the batteries following the manufacturer's recommendations</li><li>▶ Control that breakers are open and secure</li></ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>#8 - Get support (if needed)</b> <ul style="list-style-type: none"><li>▶ Call external support for your product line manufacturer</li></ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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# MANUFACTURING LINE RESTART CHECKLIST

Steps to follow	Scheduled	WIP	Completed
<b>#1 - Cleaning of the machine</b> <ul style="list-style-type: none"><li>▶ Clean the system</li><li>▶ Tighten locknuts of the leveling legs</li><li>▶ Check that all security lids are well-secured</li><li>▶ Make sure there is no active alarm on the touchscreen</li><li>▶ Check main air supply (90 PSI, clean air)</li><li>▶ Check for any bent hoses (pneumatic hoses)</li><li>▶ Verify the air regulators gauges are at their proper pressure adjustment</li><li>▶ Check if the machine is clean and without broken parts (ie, caps or tubes) inside the working area</li></ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>#2 - Visual appearance</b> <ul style="list-style-type: none"><li>▶ Machine does not have any visible damage</li><li>▶ All air regulator settings are tagged with name and settings</li><li>▶ Settings are not attached to removable components that could be replaced</li><li>▶ Feeder bowl has air jet locations engraved on bowl and air lines tagged with proper regulator location</li><li>▶ All bowls and motor controllers are tagged with settings</li><li>▶ All doors open in an operator friendly way as stated in standards</li><li>▶ Base platform is at an acceptable height</li><li>▶ Machine paint is acceptable</li></ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>#3 - Connection</b> <ul style="list-style-type: none"><li>▶ Level sensors work (low and high when applicable)</li><li>▶ Counter counts every piece correctly and does not overcount</li><li>▶ Counter keeps memory if power is lost</li><li>▶ No programs are lost when machine is power cycled</li><li>▶ All wires are numbered</li><li>▶ Breakdown/installation hook-ups indicated</li><li>▶ Copy of electrical drawings in electrical enclosure</li><li>▶ Batteries replacement</li><li>▶ Breakers are open and secure</li></ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>#4 - Warm-up</b> <ul style="list-style-type: none"><li>▶ Put the machine in "jogging" mode and check cycle by cycle, for any issue</li><li>▶ Continue in auto mode, at a low-speed cadence to run tests</li></ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>#5 - Run to normal production</b> <ul style="list-style-type: none"><li>▶ Cycle start</li></ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>#6 - Get help and support</b> <ul style="list-style-type: none"><li>▶ Need for external support</li></ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

————— Contact Our Specialized Engineers —————

# NOTES

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