7 MAINTENANCE

7.1 Lubrication Summary

Keep the following lubricants on hand for periodic maintenance of your IPH machine.

Main Bearings:	Shell Alvania® 71125 Grease
Motor:	The motor bearings are sealed and will not require service.
Door Latch:	Silicon Spray Grease
Door Handle:	Silicon Spray Grease

7.2 Cleaner Summary

Keep the following cleaners on hand to help keep your IPH machine clean.

Cabinet:	Good quality commercial stainless steel cleaner, or Lemon Oil
Cooling Fan Filter:	Water and mild detergent

7.3 Tool Summary

This is only a list of tools required for normal periodic maintenance and inspection. Consult the service manual for a list of tools and equipment required for repair procedures.

- #2 Phillips Screwdriver
- #3 Phillips Screwdriver
- #4 Phillips Screwdriver
- 7/16” Wrench
- 1/2” Wrench

7.4 Preventive Maintenance

Preventive maintenance is the key to keeping any machine’s operating costs low, efficiency high, and your operators safe! Please incorporate the following periodic checks and maintenance routines into your work schedule and see that they are followed through.

You will find daily, weekly, monthly, and quarterly maintenance checklists at the end of this manual. Feel free to make copies of these maintenance checklists and keep them as a record verifying that your machines were properly maintained. Extra spaces are provided at the end of each checklist so that maintenance personnel can write in items specific to your particular facility.

The following maintenance procedures must be performed at the required intervals.

Reinstall all panels that are removed to perform service and maintenance procedures. **Never operate the machine with missing guard panels or any damaged or missing components. Never bypass any safety devices.**

7.4.1 Daily Maintenance and Safety Checks

- ✓ Check water and Steam inlet hoses at the back of the machine for leaks, cracking or other deterioration.
- ✓ Check the electrical service connections at the back of the machine. Make sure they are secure and that there is no deterioration or cracking of the insulation. If there are any exposed bare conductors or damaged insulation call an electrician to correct the problem.
- ✓ Verify proper door interlock operation using the following procedure:
  1. Attempt to start the washer with the door open – it should not start.
  2. Close the door only partially (to the first click) and attempt to start the washer – it should not start.
  3. Close the door completely and start a program. Attempt to open the door while the program is in progress. The door should not open.
- ✓ Call a service technician if the door interlocks failed any of the previous tests – do not operate the machine until repaired.
- ✓ Clean the door gasket of any foreign material and residual detergent.
- ✓ Clean all automatic supply dispenser components with a mild detergent and rinse with clean water.
- ✓ Wipe the washer's top, front and side panels with a damp cloth or good quality stainless steel cleaner (follow manufacturer's directions).
- ✓ Leave the loading door open at the end of each day. This will allow the machine to dry and air out.

7.4.2 Weekly Maintenance and Safety Checks

- ✓ Start the machine unloaded and allow it to fill.
  1. Check the door and door gasket for leaks.
  2. Verify that water does not leak out while the drain valve is closed.
  3. Verify that water flows out of the machine quickly when drain valve is opened.
  4. Inspect the floor around the machine for water indicating an internal leak.

7.4.3 Monthly Maintenance and Safety Checks

Shut off the electrical, water, and steam services to the machine before performing the monthly maintenance procedures!

- ✓ Each month or after 200 hours of operation, lubricate the bearings per instructions on the machine at the grease fittings (located in the upper rear panel). Pump the grease gun slowly, using full strokes. Use the number of strokes specified on the machine – putting in "extra" grease can cause over lubrication, which will damage the bearings.

Never mix grease types (Ex. Silicon, Petroleum, Lithium, Poly-Urea)! **Never use any grease other than that specified at the grease fittings on the machine. Doing so may cause premature bearing failure and void any applicable warranties.**

- ✓ If the machine is fitted with auto-lubricators check that they are functioning by noting the piston position each month. Always mark new lubricators with the installation date.
- ✓ Open the rear electrical enclosure and clean out any dust or lint build up in the box with a vacuum cleaner and a soft brush. Lint build-up can result in a fire hazard.

Do not clean the cooling fans with compressed air! Doing this spins the fan too fast and will cause premature fan failures.

- ✓ Remove the rear service panel and inspect the drive belts for uneven wear, frayed edges, or cracking. Push on the belts and make sure that the motor can move about its pivot point – this ensures that the belts are automatically being tensioned correctly.
- ✓ Use a straight edge to check that the pulleys are lined up correctly (see figure). The straight edge should contact each pulley face in two places.
- ✓ Remove the rear service panel and inspect all hoses for leaks, cracking, and deterioration.
- ✓ Remove the top service access panel and inspect all water fill and supply dispenser flush hoses for leaks.
- ✓ Remove the front service access panel. Check all hoses and the temperature probe for leaks, cracking, and deterioration.
- ✓ Using a 5/16” hex driver, make sure that all hose clamps are tight and that all hoses are secure.
- ✓ Use compressed air or a soft brush to remove dust and lint from the motor surface.
- ✓ Verify that the motor mounting bolts are tight.
- ✓ Verify that the motor plate mounting bolt is tight, but that the plate is free to pivot.
- ✓ Turn off Inspect and clean any external water and steam filters.
- ✓ Replace all service access panels.
- ✓ Restore all utility service (power, water and steam) connections.

7.5 Removing Panels For Maintenance

7.6 Troubleshooting