



Maintenance Procedures

General:

Maintenance instructions will be divided into Daily, Weekly, and Monthly schedules. The intervals indicated are based on a normal work or operating schedule of forty hours per week.

Daily Maintenance Items:

- Clean belts by running belt drive and wash system without sludge or polymer for a minimum period of 45 minutes.
- Check belts for rips/tears and alignment.
- Clean spray nozzles by rotating brushes with bypass wheel on wash boxes if there are stripes on belt.
- Check and adjust belt tension.
- Check fluid level in hydraulic unit. Fill as required.
- Manually extend and retract the tension cylinders/airbags to clean and oil the rods. This will greatly impact the life of the seals/airbags.
- Inspect alarm sensors: e-stops, limit switches, air/hydraulic pressure switch.
- Check all ancillary equipment for leaks and damage: boost water pump, sludge pump, auger, poly system, hydraulic motor, and pump.
- Grease hanger and end bearing on auger.
- Any grinding or popping noises should be located and fixed.

Weekly Maintenance Items:

- Inspect wear items specifically chicanes, scraper blade, gravity drainage grids, dewatering belts, rubber seals on the sludge restrainers and the wash stations. Replace as required.
- Grease roller bearings and inspect for water.
- Shoot bearings with a temperature gun while running to see if one is running hotter than the others. This will indicate a bad bearing.
- Inspect frame and roller coatings for water.
- Inspect belt guides and wiper bars for cleanliness/wear. Clean as required.
- Check for any loose bolts.

Monthly Maintenance Items:

- Verify daily and weekly items have been completed.
- Check oil level in gearboxes. Fill to proper level if low. Replace fluid if it is low quality.

- Clean belts with soap/bleach mixture. To prepare the soap/bleach mixture, use 1-cup detergent and 3-cups of bleach to mix with 5 gallons of water. The soap can be any laundry type liquid detergent and the bleach can be any generic brand bleach containing 5.25% sodium hypochlorite. The water can be tap water.
- Use power wash system to spray the soap/bleach mixture on belt surface for cleaning. The spray pressure shall be about 1,000 psig and not to exceed 2,000 psig.
- Check belt seam wires for breaks. Replace if broken.

Notes:

- When greasing bearings, look for gaps between pillow block and shaft of roller. This will indicate a bad bearing.
- No more than 3/8 inch of cake should be coming off the back of the press. More than this can cause premature wear on belts, rollers, and bearings.
- The boost water should be at least 100 psi for proper cleaning of belts.
- When filling gearboxes, each gearbox has different fill levels and fluid specification. If you need assistance locating this, you can call an Aspen rep.