

# Annual Preventative Maintenance Checklist

## 1. Machine Alignments

- Level the machine
- Sweep the table
- Check X, Y, Z axis gibbs
- Check the X,Y,Z backlash
- Adjustments as needed

## 2. Lubrication

- Flush waylube system
- Check waylube system for proper function
- Oil is present on all the ways
- Spindle lubricator functions OK (if equipped)
- Clean or change waylube filter and tank

## 3. Servo Tuning

- Check and adjust gain & balance settings
- Clean the X, Y, Z axis motor tacs (as needed)
- Removal and cleaning or replacement of X, Y, Z motor brushes (as needed)
- Check all axis conduits
- Check incoming power and adjust as needed
- Check spindle speed and orientation factors

## 4. Miscellaneous

- Check all fans, clean and operational
- Check spindle chillier fluid and filter
- Check and adjust rigid tap- adjust as needed
- Check and lubricate ATC adjust as needed
- Check and lubricate pallet changer – adjust as needed

## 5. Machine Calibration - (Optional)

- Laser Shoot – X, Y, Z axis
- Ball Bar – X & Y axis