



## **5200 / 5300 / 5320 Machine Maintenance**

Proper care and handling of the polishing fixtures and APM HDC-5200 / 5300 / 5320 machine is critical to maintain polishing accuracy. If the machine or polishing fixtures are damaged in any way, contact Domaille Engineering for advice or repair.

There are no user serviceable parts inside the machine case. Do not remove sealed screws. Evidence of tampering will void warranty.

### **Daily or More Often as Required**

#### **Polishing Fixtures**

Although polishing fixtures manufactured by Domaille Engineering are made of stainless steel, all traces of water and slurry should be removed after each step in the polishing process. This will ensure that the next step in the process is not contaminated by elements in the previous process.

#### **Polishing Machine**

1. Clean top of Platen, Overarm top plate, Overarm rest pad and bottom of Overarm. The accuracy of this machine is dependent on keeping these areas clean.
2. Clean all residue, water and slurry from top of entire machine and from touch screen panel cover. Do not contaminate touch screen area.

**WARNING:** Do not use an air hose on or around the Platen. This forces water and contaminates into the wear surfaces and mechanical drive unit, potentially causing machine failure. Damage caused by air hose use is not covered under warranty.

### **Monthly**

Disconnect the polishing machine from the power source before doing any maintenance work.

### **Polishing Machine Fan Filter**

Inspect Fan Filter on back of machine. Vacuum to clean or remove and clean with compressed air.

### **Polishing Machine Platen**

The Platen should be removed and greased at least once a month. If the machine is heavily used, more frequent greasing is required.

#### **To Maintain Platen:**

1. The platen can be removed by placing your fingers around the underside of the Platen. Gently break the seal between the Platen and the machine. Pull straight up.

Do not use any tools (pry bars, screwdrivers, etc.) to remove Platen as the Platen and plastic wear ring under the Platen may be damaged.

2. Clean all of the old grease and contaminants from the bottom of the Platen and from the plastic wear ring. Clean both Platen and wear ring with alcohol and a clean, lint-free tissue or cloth to remove any trace of grease.

Do not grease the Platen bearings. They are pre-lubricated and sealed; therefore, lubrication is not required.

3. Wipe any grit off the o-rings and apply a drop of light oil on each o-ring. This helps protect and lubricate the o-rings, making it easier to replace the Platen.

4. Fill holes in wear ring with grease. Put a small bead of grease on wear ring between holes. Use Platen Grease supplied with APM-HDC-5200 machine or call Domaille Engineering at (507) 281-0275 to order more.

5. Reinstall Platen by lining up the eccentric arms to point in the same direction as shown below. By moving to eye level with the Platen area of machine, place Platen on top of pins in eccentric arms.

6. Line up pins with holes in bearings in bottom of Platen. When pins are lined up, Platen will slide on pins about ½ way. Push straight down to seat Platen on wear ring. Verify that Platen is level before turning on machine. When fitted properly, no light will be visible between the Platen and wear ring.

### **Polishing Machine Overarm Lock Pins**

Lock pins are located on either side of the Overarm near the support bracket. These pins lock the Overarm in one of three positions, vertical, horizontal, or at 45-degrees.

Using light machine oil, lubricate lock pins on both sides of the Overarm, placing a drop in each slot as shown below.

