

**Apogee™ Mechanical Debonder – Preventative Maintenance Guidelines & Procedures**

**Clean Chuck**

**Recommendation:**

The ceramic chuck of the Apogee Mechanical Debonder will need to be cleaned daily. Any foreign material on the chuck can cause wafer breakage.

**Procedure:**



Observe Lockout / Tagout Procedures



Wear safety glasses



Do Not Eat or Drink While Performing this Procedure



Wear Protective Gloves

Clean the chuck daily and after use. Apply IPA or Acetone to a clean, absorbent material. Wipe any foreign material from the chuck surface and o-ring. Do not apply solvents directly to the chuck.

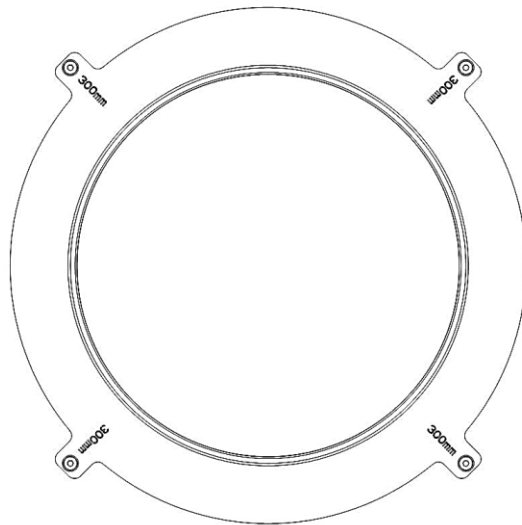


Figure 1: Apogee™ Mechanical Debonder Chuck Assembly

## Clean Clamp Ring

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### Recommendation:

Clean the clamping ring as required to ensure continued performance of the clamping ring and successful debonding of your substrates.

### Procedure:



Observe Lockout / Tagout Procedures



Do Not Eat or Drink While Performing this Procedure



Wear safety glasses



Wear Protective Gloves

Power the Apogee™ Mechanical Debonder down. Open the door and remove the clamping mechanism. Turn the assembly upside down to clean. Apply IPA or Acetone to a clean, absorbent material. Wipe any foreign material from the groove of the clamp ring. CAUTION, edge of the ring and can be sharp. Do not apply solvents directly to the clamp mechanism. Check to ensure that the clamp ring grooves are free from fouling or other foreign objects (i.e. broken wafer shards). Foreign materials in the grooves can interfere with the operation of the wafer alignment/centering system and may have an adverse impact on your debonded wafers.

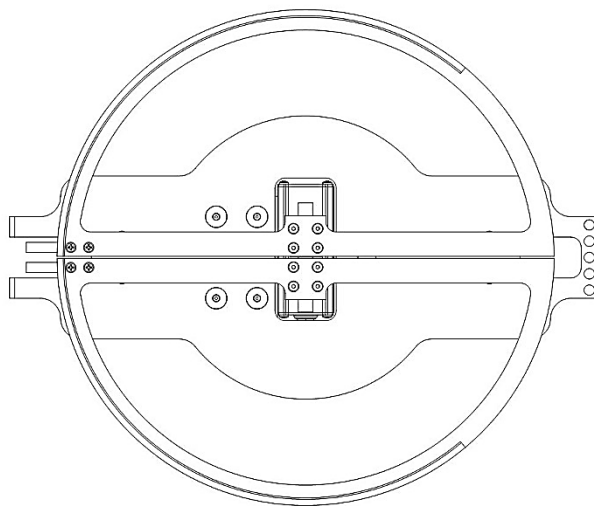


Figure 2: Apogee™ Mechanical Debonder Clamping Mechanism

## User Interface Assembly

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### Recommendation:

Periodically check the Emergency Stop function to ensure proper operation.

### Procedure:

With machine powered up and running, press the Emergency Stop button on the user interface console. Machine should shut down.



*Figure 3: Apogee™ Mechanical Debonder User Interface Assembly*

If the machine does not shut down, stop using the machine immediately, and contact CEE Customer Support for additional help and instructions.

### Recommendation:

Promptly clean up any spills on the touch-screen surface.

### Procedure:

Using a clean, absorbent material wipe any spills from the user interface touch screen surface. Do not apply solvents of any kind to the touch screen.