



IPEC 372M Automated CMP Tool

The IPEC 372M is one of the most widely installed CMP tools ever. Designed for both oxide and metal planarization processes, the IPEC 372M offers single wafer, two-step polishing for substrates up to 200mm.

Standard Features Include:

- Automated control with soft touch key pad
- Two platen process for post polish buff
- Multiple slurry dispense
- In-situ pad conditioner
- Material compatibility for medium and low ph slurries (1 – 12)
- Down force up to 750lbs.
- Controllable wafer back pressure
- Polish head clean station
- External interface for end point capability

Optional Features

- Multizone ViPRR carrier upgrade
- Temperature controlled platens
- SECS II Interface

Facilities:

- Dimensions:
Width: 67", Depth: 97", Height 92"
- Electrical, 208 VAC, 3-PH, 50/60Hz
- DI Water:
Avg Flow: 6gpm
Pressure: 25 – 30psi, minimum
- Nitrogen or CDA: Peak 10SCFM
- Compressed Air: 6SCFM



Axus Technology is a full service equipment supplier, providing equipment, parts, support and engineering services for legacy semiconductor equipment. Axus Technology was founded by industry veterans and the technical staff is comprised of engineers and technicians with extensive OEM experience in supporting these tools.

Axus Technology is setting the standard for the secondary equipment market; bulding strong working relationships with OEMs and equipment users. Axus Technology currently supports an array of CMP tools, post CMP cleaners, wafer thinning tools, and a variety of consumables vendors.

Our extensive experience with these tools, as well as with new materials and equipment, allows Axus Technology to provide state of the art process support as well as performance enhancements.

Axus Technology is an active member of SEC/N, the industry trade association that is establishing standards and practices for the semiconductor equipment market.

IPEC 372M Refurbishment Outline

Key Component Replacement / Rebuild

Axus Technology provides a full refurbishment of all IPEC rotational tools, including the IPEC 372M and IPEC 472 CMP tools. Tools are evaluated regarding their condition and they are remanufactured or refurbished to ensure that they meet or exceed original manufacturer specifications. The objective is to deliver tools that meet our customers' expectations for appearance and functionality.

The entire tool is reviewed to ensure that all worn or corroded parts are replaced. All painted, plated, or coated components are reprocessed wherever coatings are worn or do not meet the specifications for the part. All mechanical components are evaluated for fit. All process parts, such as pump tubing, hardware consumables, and similar items are replaced with new items.

In order to ensure that each tool performs exactly as originally designed, it is essential to replace key operating components in the tool. At a minimum, these include the following items.

1. Platen Bearings

Platen Hub with Bearings and Races are installed on each of the two platen assemblies. These assemblies include the housings, bearings and races. This assembly is central to the platen assembly and replacement requires the removal of the platens, gearboxes and other hardware for replacement. (See photo, below).

2. Platen Replacements

The main platen is often subject to wear, corrosion or incidental damage. All Axus-refurbished tools are supplied with tables that have been reprocessed, coated and lapped, to meet original manufacturer specs.

3. Polish Arm Bearings

The polish arm bearings and races are also replaced during a typical refurbishment. Together with the replacement of the platens and platen bearings, this ensures that main process mechanism is equipped to provide end users with like-new process performance.

In addition to the items outlined above, Axus Technology engineers completely evaluate each tool, rebuilding and calibrating each major assembly, replacing all worn parts and process related components, and providing final calibration and set up for source inspection. We encourage each of our customers to do an on-site inspection of the tool, where they can review the details of the work accomplished, perform a final operational check of the equipment, and participate in the final testing of the tool.

Axus Technology provides support directly to end-users, as well as through the OEM. Axus is equipped to provide support with process development, using our fully-equipped applications lab, as well as maintenance and operations training, and field service support. Only Axus Technology is authorized to provide the VIPRR carrier upgrade for refurbished IPEC 372M and IPEC 472 CMP tools.

For more information about contract refurbishment services, refurbished tools from Axus Technology, or field service for IPEC tools, please contact either Tim St. Marie or Barrie VanDevender at our Chandler, AZ facility.

