



## **AKRIBIS-AIR**

# INTELLIGENT SAMPLE PREPARATION

## **SYSTEM**

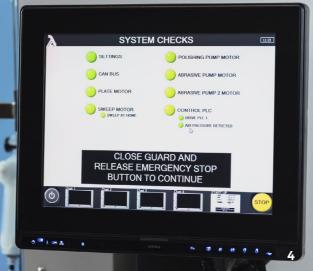
This intelligent, stand-alone sample preparation system delivers the ultimate in processing innovations and is a highly automated stand-alone machine. Offering dynamic load control of Logitech's intelligent Air Jigs, the system offers fast, reliable and highly accurate results across a wide range of applications.

The level of automation offered by Akribis-air substantially reduces user input, variability, set-up and clean up operations. The integration of an advanced software system provides a user friendly and high controlled platform for advanced processing. The intelligent, free rotating air jigs developed by Logitech uses air pressure to allow maximum sample load application throughout the process - meeting the needs of the most demanding applications.









#### **KEY FEATURES & FUNCTIONALITY**

- → Stand-alone, single station system with the ability to process either 100mm/4" or 150mm/6" specimen a driven jig roller arm greatly increases accuracy and repeatability.
- → 400mm plate with rotational speeds between 5 and 100rpm - facilitating faster lapping and polishing rates.
- → Bluetooth-enabled features include: real-time data collection and feedback from the digital indicator on the Air Jigs allowing greater end-point thickness control for increased accuracy.
- → Real time data collection and feedback via Bluetooth to allow users to export information via the USB port for external analysis – this includes: target material removal and actual material versus time of removal, and plate shape analysis (actual shape and target shape versus time).
- → Bluetooth automatic-plate-flatness control provides continuous in-situ measurement of the plate flatness, automatically correcting any deviation from the specification set by the operator.
- → The recipe mode feature on Akribis-air allows operators to create, save and re-call multistage process recipes - making each process completely repeatable, even across different operators.
- → Intelligent Air Jigs developed by Logitech allowing jig load to be accurately set to meet the needs of the application, in the range of 0.5kg 12kg for the AJ100 (100mm jig) and 0.5kg 21.6kg for the AJ150 (150mm jig).
- → The metered abrasive feed unit, via the peristaltic pumps, allows operators to set the flow rate of between 1-100ml per minute. This greatly increases the quality and the accuracy of results, while reducing both wastage and operational costs.

- →3.8ltr capacity abrasive cylinder with dual abrasive feed utilises auto-abrasive switch over functionality to allow for multistage processes with a quick cylinder change over.
- → There is also the option for a third pump to facilitate a colloidal feed unit.
- → The automatic drip detector will stop the plate rotating when the abrasive cylinder is empty - thereby avoiding any damage to the specimen running on a dry plate.
- → All process conditions are controlled via the Graphical User Interface (GUI), including: plate speeds, material removal rates, the metered abrasive feed and jig load giving the operator complete control.
- → Chemically resistant to standard chemicals used in CMP applications, including sodium hypochlorite (Na OCL). Contamination can be avoided using the auto-wash feature and integrated, sample cleaning, de-ionised water and nitrogen guns.

- 1: Akribis-air Intelligent Sample Preparation System
- 2: Free rotating intelligent Air Jigs allow jig loads to be accurately set per the application needs
- 3: Avoid contamination with the integrated sample cleaning gun
- 4: Advanced software system provides a user friendly platform for controlling process parameters

#### **TECHNICAL SPECIFICATIONS**

Wafer Capacity: 1AJ100 1AJ150	100mm/4" 150mm/6"
Height	1844mm
Width	1003mm
Depth	702mm
Power Supply	240v/110v Single Phase
Plate Diameter	400mm
Plate Speed	5-100rpm
Abrasive Delivery	3.8ltr Cylinder, measured flow 1-100ml/min delivered via peristaltic pumps
Colloidal Delivery	1-100ml/min delivered via peristaltic pumps

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