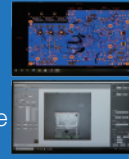


Trojan (Suzhou) Material Technology Co., Ltd. was founded in Suzhou in 2005, a professional supplier of metallographic equipment and consumables integrating R&D, manufacturing, sales and application services. With 20 years of expertise in metallographic inspection, we focus on the R&D, sales and technical application services of metallographic equipment and consumables. Boasting a professional R&D team with core members rich in design and development experience, our nearly 80 staff ensure superior product quality with profound industry knowledge and advanced technology. The company is committed to building a world-class metallographic brand and continuously providing professional and reliable products and services for customers at home and abroad.

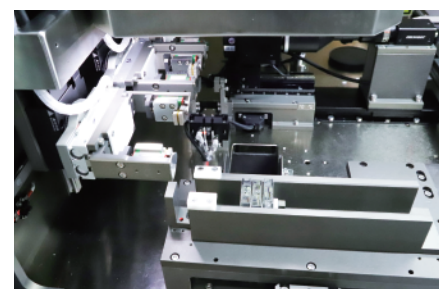
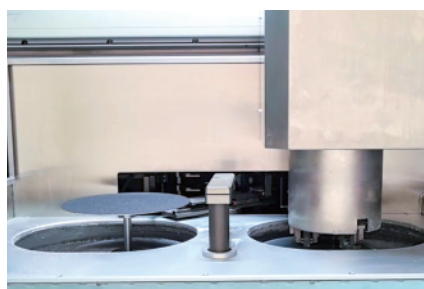


WIT-1 Fully Automatic Intelligent Sample Preparation System

The WIT-1 Fully Automatic Intelligent Sample Preparation System is a special-purpose device for cross-section slicing and inspection in semiconductor, PCB and related industries. It is mainly used for precise positioning, inspection and analysis of hole copper, solder joints, solder balls and other key parts in semiconductor, SMT and PCB sectors. With high-definition CCD camera for accurate grinding position calibration, it automates the full process from rough grinding, fine grinding, fine polishing to cleaning, and achieves 10 μ m precise grinding control through AI technology.

Product features

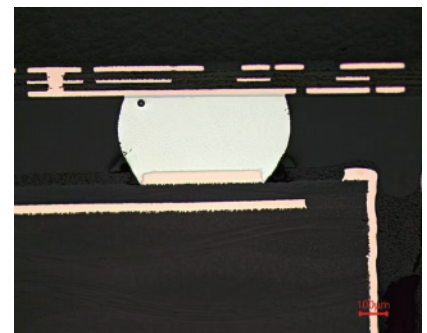
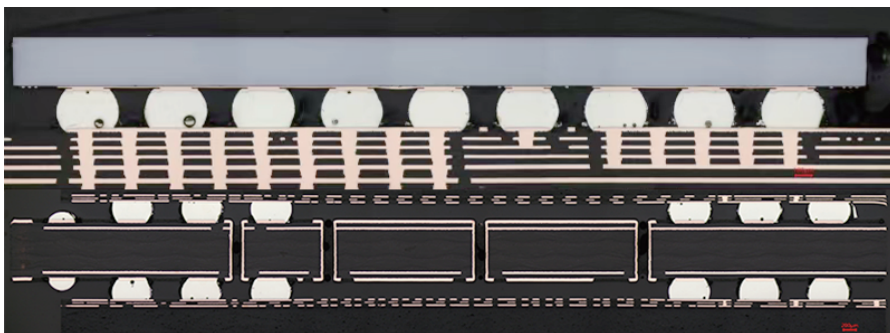
- ◆ Uses a high-precision CCD camera to calibrate the sample grinding position, with a grinding error of $\pm 10\mu$ m.
- ◆ Multiple grinding lines can be calibrated for a sample. After grinding is completed, the program can be called to select the next line for grinding.
- ◆ For embedded samples with tilt, the left and right angles can be automatically adjusted to level.
- ◆ Can hold 3 samples for grinding and polishing at a time, and can take photos of the grinding surface.
- ◆ The pressure and speed of sample pressing can be controlled to avoid sample cracking and breakage caused by excessive pressure.
- ◆ Equipped with laser marking or coding for sample traceability.
- ◆ Dual working discs for automatic replacement of grinding discs; can hold up to 20 grinding discs.
- ◆ Configured with 4 sets of different polishing fluids, 2 of which have mechanical stirring functions, and all 4 sets have liquid level alarm functions.
- ◆ Equipped with a cleaning station including ultrasonic cleaning, water flow cleaning, and air drying.
- ◆ Processed samples are arranged in an orderly manner in the recovery box with the grinding surface facing up to avoid scratches on the grinding surface.



Technical Specifications

Parameter type	Parameter Name	Basic parameters
Input	Power Supply	AC 220V/50 Hz + ground wire, total power 7Kw, rated power 2Kw
	Air Supply	0.6~0.7MPa, OD=Ø10mm air pipe
	Water Supply	<0.3Mpa, OD=Ø10mm water pipe
	Sample	Square mold box, size 39x47x12mm / 302712mm, maximum quantity 21
Output	Drainage	Outer diameter 32mm drain pipe
	Discharge	Samples are delivered with the grinding surface facing up and arranged in order
Safety	Emergency Stop	Press to cut off the control circuit and power supply
	Safety Door Lock	Safety relay and safety door lock, PLD safety protection level
	Three-color Alarm Light	Available
Alignment System	CCD Camera	25-megapixel
	Shooting Field of View	35x35mm
	Laser Coding/Reading	Available
Grinding/Polishing Station	Grinding Station	2
	Grinding Disc Diameter	Ø254mm
	Rotation Speed	100-1000rpm
	Motor Power	1Kw
Moving Grinding Head	Number of Clamped Samples	3
	Motor Power	0.4Kw
	Rotation Speed	0-360° reciprocating swing
	Pressure	5-100N
Drip System	Drip Groups	4 groups x 1.8L
	Flow Rate	0-50 mL/min
	Stirring	2 groups, mechanical stirring method
	Liquid Level Reminder	Available
Grinding Disc Storage	Number of Grinding Discs	20
	Grinding Disc Service Life	Reminder based on usage times or grinding force
Cleaning	Cleaning Method	Water flushing, ultrasonic cleaning, high-speed spinning drying of grinding discs
	Drying Station	Independent air drying
Sample Preparation Process	Program Library	30 groups
	Number of Sample Preparation Steps	Maximum 10 steps
	Single Step End Condition	Remaining grinding amount [minimum 0.001mm], grinding amount [minimum 0.001mm], or grinding time
	Single Step Grinding Method	By pressure [0-100N] or speed [minimum 0.001mm/s]

Corresponding metallographic diagrams



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