



SPA Grinding and Polishing Machine



The SPA completes MSC's system for cross-sectioning printed circuit boards. It allows a controlled grinding and polishing to yield specimen ready for optical inspection.

The grinding and polishing operation is fully automatic with very high precision also for micro-vias. No trial and error. The SPA is

the only existing machine, which was designed for the PCB industry and fulfils the specific requirements in superior manner: precision, reproducibility, time saving, cost saving and a good surface for optical inspection.

Technical description:

- Space saving, fits to standard lab benches
- Rough grinding, fine grinding, polishing in fully automatic and manual mode selectable
- easy operation through touch display; language selectable
- NC-steering with programmable z-axis
- Material savings (resin, papers, suspensions)
- Operation without bed stop
- Water dosing and polishing liquid dosing automatically and adjustable
- Warning message for changing the grinding papers in time
- Fast and precise sample preparation through untrained staff
- High capacity
- manual grinding and polishing possible too

Technical data:

- Electrical supply: 230 VAC, 50 Hz
- Weight: 45 kg
- Dimensions: 900 x 500 x 450 mm (l x w x h)
- Disc diameter: 200 mm
- Water supply: max. pressure 8 bar

Remark:

For standardized operation and optimum capacity of the SPA the TSM / S-OSR and MSC's specimen holders are recommended. This patented system allows embedding of coupons without any expensive and time consuming registration aid. Collection of coupons should be achieved with a routing machine (e.g. MSC's OSR or S-OSR) to avoid damage of PTH and layer build up. The OSR will work on FR4 up to 6 mm thickness without deformation. For further information see OSR, S-OSR, TSM technical datasheets.