S-OSR

High Precision Optical Specimen Router

The S-OSR is part of MSC´s system (specimen preparation, grinding- and polishing) for micro-sectioning printed circuit boards (PCB). Our system allows the highly automated preparation of micro-sections for optical inspection.
The S-OSR is based on milling, controlled and operated by a PLC unit, touch screen and an integrated windows computer. Through a digital video camera system you select the desired area on the PCB. Manually or automated you can select drilled holes, which shall be analysed later in the final micro-section. When starting the milling process a very precise coupon will be cut out of the PCB. This means the coupon will have a defined distance from the edge to the desired cross-section plane. The coupon remains attached to the panel, but can be detached easily. Using our specimen holder the coupons can be directly processed on our automated and highly adjustable grinding and polishing machine SPA. See the corresponding SPA datasheet.

Advantage:

- Easy handling with touch screen and computer mouse
- High flexibility through parameter set up
- Nearly maintenance free
- Desktop design fits everywhere in your lab and process environment
- All FR4 type and other base materials processable

Technical description:

- Programmable logic controller (PLC)
- Digital image processing and automatic edge detection
- Integrated windows computer guarantees easy software updates
- Digital camera system with two different magnifications
- Pneumatic clamping system for the PCB
- Standard cutter: 2.4 mm (Shaft 3.175 mm; spiral length 6-8 mm)
- Coupon size: standard 21 x 10 mm, maximum 30 x 14 mm
- Feed adjustable to PCB thickness
- Extensible bearing for large panels
- Automatic control for exhaust system

Technical data:

- Electrical: 230 VAC, 50 Hz
- Weight: 28 kg
- Dimensions: 620 x 600 x 420 mm (l x w x h)

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