



MICROLAB 30

quality tools



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MicroLab 30

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Fast and reliable quality assurance is increasingly important as a competitive factor. Micrographs are indispensable when releasing new crimp contacts and tools. The MicroLab 30 micrograph laboratory is a central element in modern quality engineering.

User-friendly and smart

MicroLab 30 is designed for the micrograph generation of contacts up to a diameter of 10 mm. The combined cutting and grinding process optimally prepares the sample for the subsequent etching process. An integrated line laser simplifies the positioning of the micrograph surface.

Reliability in perfection

The concentric arrangement of saw blade and grinding disc enables an optimal process flow. Two-step motors as multi-axis feed control, guarantee a reproducible micrograph preparation. The mobile MicroLab 30 requires extremely few maintenance.

Conveniently practical

- No need to reclamp the sample
- Regrinding option
- Reproducible sample preparation
- Low maintenance

Mobile, automatic and fast

- Fully automatic and operator-independent
- Very short processing times (approx. 30 seconds for smallest cross section)

MOBILE & SIMPLE QUALITY CONTROL



Technical data

Processing range (max. contact-Ø)	0.50 – 10.00 mm (corresponds to approx. 0.08 – 80 mm ²)
Regrinding option	0.05 – 0.25 mm step: 0.05 mm
Area of application	B-crimp / MIL-crimp / HEX-crimp
Materials	copper / aluminium
Volume	medium to large quantities
Power supply	100 – 240 VAC, 50/60 Hz
Performance	1500 W
Dimensions (LxWxH)	500 × 450 × 350 mm
Weight	35 kg
Sandpaper	800, 1200 grain size
Saw blade	Ø 180 × 2 mm (HSS)

SmartEtch

- Self-adaptive, no settings have to be made
- Avoid loss of wear parts due to the integrated storage compartment
- For universal use, both for copper and aluminium samples

Power supply	100 - 240 VAC, 50/60 Hz)
Dimensions (L × W × H)	150 × 142 × 70 mm

SmartOptic

- Easy handling
- Fast image capture thanks to digital zoom
- All-in-one device with integrated lighting
- Wide range of applications
- High quality images
- High measuring accuracy
- Realistic colours

Resolution	18 megapixels
Sensor type	C-MOS
Zoom levels	1
Zoom type	digital
Object size (standard)	max. 13 × 10 mm
Object size with additional lens (optional)	max. 45 × 34 mm



01



02



03

01 With its easy-to-understand display, the microlab is easy to operate.

02 The concentric arrangement of saw blade and grinding disc enables optimum process flow.

03 The intuitive stand alone modules SmartEtch (left) and SmartOptic (right) ensure perfect cleaning and image capturing of the samples.

Komax – leading the field now and in the future

As a pioneer and market leader in automated wire processing, Komax provides its customers with innovative solutions. Komax manufactures series and customer-specific machinery, catering to every degree of automation and customization. Its range of quality tools, test systems, and intelligent software and networking solutions complete the portfolio, and ensure safe, flexible, and efficient production.

Komax is a globally active Swiss company with highly qualified employees and development and production facilities on several continents. It provides local support to customers worldwide through its unique sales and service network and offers services that help them get the most out of their investments.

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