Mobile Micrograph Laboratory Mobile Lab ML 3030

Mobile Crimp Cross Section Laboratory to prepare microsections

The Mobile Lab ML 3030 has been designed to meet the requirements of a fast and accurate production of microsections in the shop floor area. Due to the mobile design and battery operation, the Mobile Lab ML 3030 can be flexibly used anywhere in the production area. A quality check by microsection due to material or tool change can be done on the spot within a few minutes. If the result of the sample check is "ok" then production can continue in the certainty that all quality criteria are met.
The quality check of the "teach-in"-crimps by microsection is important for the release of crimping tools and terminals. The recording of the microsections can be used as proof of quality in case of any complaint.
The acquisition cost for the laboratory will therefore amortize within no time at all.

Performance features

- Complete mobile **laboratory on wheels**
- **Mobile use** by battery operation
- Short processing time between 3-5 minutes per micrograph
- Proven zoom objective with **4 optical zoom grades**
- **Digital colour camera** with 1/3" CMOS sensor, USB 2.0, resolution 1280 x 1024 pixel
- Longlife LED illumination at the microscope
- Standard terminal holder for **cross sections up to 6 mm²** (further sizes available on request)
- Suitable for **contact sizes from 0.1 to 10 mm²**
- Appropriate tool set for the sample preparation
- Polishing of the cross section with **acid free electrolyte**
- Comfortable **analysis software X-Scan**
- Software calibration based on traceable standards incl. calibration certificate
- Fitting gas tight mount for 5 calibration gauges
- Lockable safety cover
- Integrated charger
- Cross-sectioning of the sample can be carried out without any disturbance of the terminal and cable stranding

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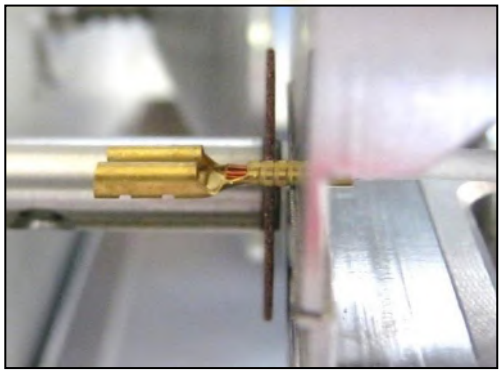
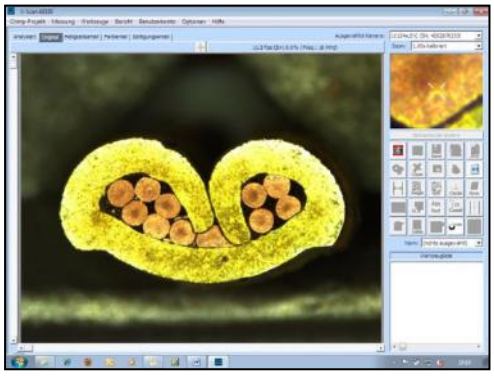
Crimping Line



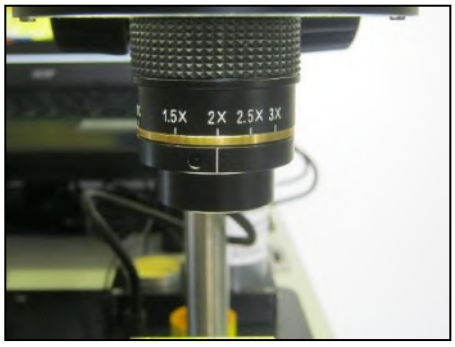
Precise adjustment of the cutting position



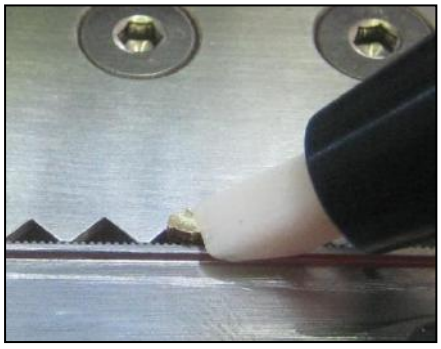
Documentation of the microsection according to DIN EN ISO1463 by X-Scan

Working principle

The specimen is clamped in the sample holder and goes through the steps "cutting/grinding" and "fine polishing".
The fine polishing process is done by electrolysis operation as a standard. Problematic crimps can alternatively be treated with a chemical polish. During both polishing methods the sample remains clamped in the sample holder placed under the microscope. The polishing process of the cross section can be viewed on the monitor. Is the result good enough, the micro sections can be measured, analysed and recorded.



Zoom lens with „click" locking



Fine polishing with pen (acid-free)

Specifications

Voltage supply	230 V / 50 Hz (charging)
Battery operation	12 V / 24 Ah
Operation time with battery	approx. 8 hours continuous operation
Fine polishing	electro chemical, without any hazardous substances
Optics	high-quality zoom lens 0.75 – 3.0x with "click" locking
Camera	USB digital camera, 1280x1024 pixel
Lighting	durable LED light source for true colour illumination
Cross section sizes	0,1mm² - 10mm² (AW G28 – AWG 10)
Dimensions (W x D x H)	520 x 800 x 1340 mm
Weight	62 kg

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