

Crimping Line

Mobile Micrograph Laboratory Mobile Lab ML3030

Mobile Crimp Cross Section Laboratory to prepare microsections

The Mobile Lab ML3030 has been designed to meet the requirements of a fast and accurate production of microsections in the shop floor area. Due to the portable design and battery operation, the Mobile Lab ML3030 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.

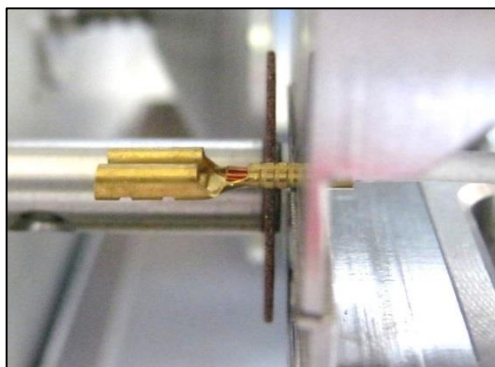
The acquisition cost for the laboratory will therefore amortize within no time at all.



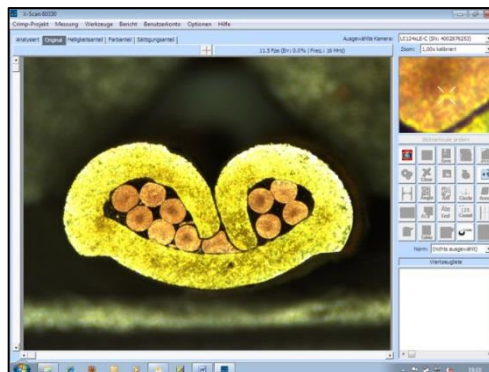
Performance features

- Fully functional Micrograph Laboratory
- Suitable for cross-sectional area of 0.1 mm² - 6 mm²
- Mobile use by battery operation
- Short processing time between 3-5 minutes per micrograph
- Electronic fine polishing (acid-free)
- Swivel mouse tray
- Laptop is powered by the battery of the Microlab
- High-quality USB digital camera
- Long-lasting LED lighting
- Lockable safety cover
- Integrated charger
- Comfortable analysis software X-Scan

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Precise adjustment of the cut position



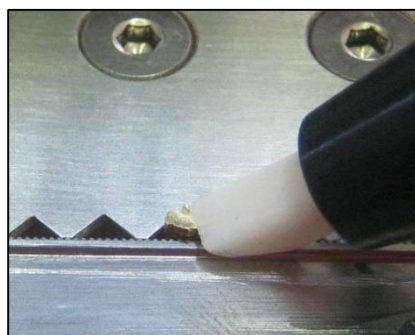
Documentation of the microsection according to DIN EN ISO1463 by X-Scan

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. If the result is 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
⊗ Weight	62 Kg
⊗ Dimensions (W x D x H)	520 x 800 x 1340 mm
⊗ Fine polishing	without any hazardous substances (food quality)
⊗ Optics	high-quality zoom lens 0,75 – 3,0x with „click“ locking
⊗ Camera	USB digital camera, 1280x1026 pixel
⊗ Lighting	durable LED light source for true colour illumination > 50000 hours
⊗ Image processing software	X-Scan meets all relevant DIN standards and manufacturers' spec's

