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Crimping Line

Portable Micrograph Laboratory **Microlab ML 3003**

Portable laboratory to prepare crimp cross sections analysis



Microlab ML 3003 in operation (standard delivery without notebook)

The handy case laboratory **Microlab ML 3003** with direct power connection enables the process-safe preparation of crimp micrographs. It is completely set up and ready for use in only approx. 90 seconds! Due to the 230V power supply it offers high performance and is suitable for cross sections up to 6mm².

The proven optical unit with 4x zoom and color digital camera provides excellent micrographs, which can be conveniently evaluated with the **innovative X-Scan analysis software**. All necessary accessories, such as terminal holders, calibration pins, etc. are included in the scope of delivery.

Performance features

- Fully equipped micrograph laboratory in a handy case
- In about **90 seconds** ready for operation
- Superior digital colour camera USB 3.0 with CMOS sensor and a resolution of 2592x1944 pixels
- Suitable for **small and medium contact sizes** from 0.1 to 6mm²
- Short processing time between 3 - 5 minutes per micrograph
- Higher performance due to direct power supply



Clamped microsection

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Polishing liquid free of hazardous substances



ML in rugged case made of HPX High Performance Resin



Analysis software X-Scan

Further performance features

- ⊗ Proven zoom objective with **4x zoom**
- ⊗ Long-life **LED illumination** at the microscope
- ⊗ Sample holder Screwfix for **cross sections up to 6 mm²**
- ⊗ Appropriate tool set for sample preparation
- ⊗ Calibration base with measuring scale incl. calibration certificate
- ⊗ Polishing of the cross section with **acid free electrolyte**
- ⊗ **No deformation** of clamp and cable due to the cutting process
- ⊗ With comfortable **analysis software X-Scan**

Technical specification

⊗ Type	ML 3003
⊗ Power supply	100 - 240 V / 47 - 63 Hz
⊗ Smallest extension (15" monitor)	32x
⊗ Largest extension (15" monitor)	120x
⊗ Smallest crimp height for a full screen	1.8 mm
⊗ Largest crimp height for a full screen	7.0 mm
⊗ Measurement resolution µm per pixel	2.7 µm, 2.1 µm, 1.4 µm, 1.0 µm, 0.8µm, 0.7µm
⊗ Optical zoom grades	0.75 – 1.0 – 1.5 – 2.0 – 2.5 – 3.0
⊗ Camera resolution	2592x1944 pixels
⊗ Camera connection	USB 3.0 port
⊗ Object illumination	Long-life LED ring light for true to colour pictures
⊗ Fine polishing	Electrochemical
⊗ Cross section sizes	0,1mm ² - 6mm ²
⊗ Recommended temperature	22°C +/- 5°
⊗ Dimensions (W x D x H)	488 x 386 x 185 mm
⊗ Weight	13,5 kg (complete with case)