

"Your monitoring specialist"
certified ISO 9001 + ISO 14001



Crimping Line

Micrograph laboratory **Microlab ML3700**

Tabletop laboratory for making cross-section analysis



With the Microlab you can prepare microsections of crimped contacts in a very professional and comfortable manner.

The Microlab product family is designed to prepare cross sections of conductor crimps and insulation crimps easily and comfortably within a few minutes. After cutting, polishing and etching of the sample, the image of the cross section can be visualized on the screen. Now a comprehensive quality check of the crimp can be performed by using the special designed image processing software X-Scan.

Equipped with a high quality 12x zoom objective the **Microlab ML3700** is the ideal tool to conduct quality tests quick and comfortable. The high resolution camera delivers first-class microsections which can be easily measured with the automatic function of the image processing software **X-Scan**. Automatically generated records can be used as proofs of quality. Of course, X-Scan fulfills all relevant DIN standards and OEM specifications.

Performance features

- 🔍 **Complete micrograph laboratory** integrated in a MDF board
- 🔍 Easily operated **optic with 12x zoom objective** with an outstanding combination of zoom and resolution
- 🔍 **First-class Digital color camera USB 2.0** with special photosensitive CMOS Sensor and 1.3 megapixel resolution
- 🔍 Well suited for cross sections from **0.1 to 10 mm²** (AWG 28 – AWG 10)
- 🔍 Comfortable **analysis software X-Scan**



Quality Management
ISO 9001
www.dekra-seal.com

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Environmental Management
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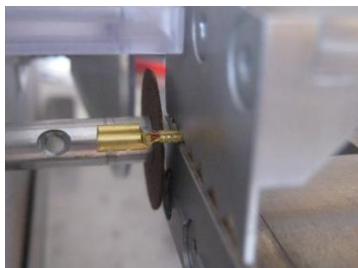
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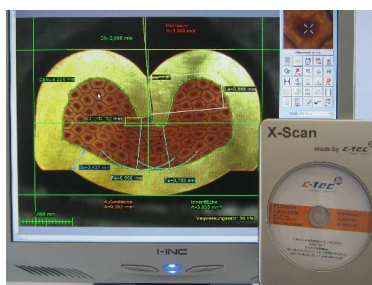
Terminal holder



Cutting the crimp



Optic with camera



Finished microsection with X-Scan

Performance features in detail

- **Complete system**, integrated ergonomically and functionally in a MDF board laminated with stainless steel
- High quality **optic with 12x zoom objective** and **convenient focusing** (coarse and fine adjustment)
- High performance **Digital color camera** with photosensitive 1.3 Megapixel CMOS-Sensor, optical class 1/1.8", USB 2.0, 1280x1024 Pixel
- Suitable for small and medium contact sizes from **0.1 to 10 mm²**
- Standard terminal holder for **cross sections up to 6 mm²** (further sizes available on request)
- Longlife **LED illumination** at the microscope
- Energy saving **working lamp** for the Cutting-/Grinding unit
- Fitting gas tight mount for 7 calibration gauges
- Appropriate tool set for the sample preparation
- With comfortable **analysis software X-Scan**
- Compact dimensions
- Software calibration based on traceable standards incl. calibration certificate
- Cross-sectioning of the sample can be carried out **without any disturbance** of the terminal and cable stranding
- Optional: ancillary lens 0.5x for 12x zoom objective for extended applications

Specifications

• Type	ML 3700/EFP
• Voltage supply	100 – 240 VAC 50/60 Hz
• Smallest extension (15" monitor)	24x
• Largest extension (15" monitor)	288x
• Smallest crimp height for a full screen	0.25 mm
• Largest crimp height for a full screen	8.0 mm
• Measurement resolution µm per pixel	13 – 7.31 - 5.17 - 3.72 - 3.00 - 2.45 - 2.10 - 1.84 - 1.64 - 1.47 - 1.34 - 1.23 - 1.14 - 1.06 -
• Optical zoom grades	0.58 - 1.0 - 1.5 - 2.0 - 2.5 - 3.0 - 3.5 - 4.0 - 4.5 - 5.0 - 5.5 - 6.0 - 6.5 - 7.0
• Camera resolution	1280 x 1024 Pixel
• Camera connection	USB 2.0 Port (Type: mini USB plug)
• Object illumination	Longlife LED ring light for true to color pictures
• Fine polishing	Electrochemical
• Cross section sizes standard	0.1mm ² - 10mm ² (AWG 28 – AWG 10)
• Recommended temperature	22°C +/- 5°
• Dimensions (W x D x H)	1200mm x 430mm x 500mm
• Weight	27 kg



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