

"Your monitoring specialist"
certified ISO 9001 + ISO 14001



Crimping Line

Micrograph laboratory **Microlab ML 3700**

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 ML 3700** is the ideal tool to conduct quality tests quick and comfortable. The high resolution camera delivers first-class digital colour pictures 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 an MDF board
- Easily operated **optic with 12x zoom objective** with an outstanding combination of zoom and resolution
- First-class digital colour camera USB 3.0** with special photosensitive CMOS sensor and 5.0 megapixel resolution
- Well suited for cross sections from **0.1 to 10 mm²** (AWG 28 – AWG 10)
- Comfortable **analysis software X-Scan**



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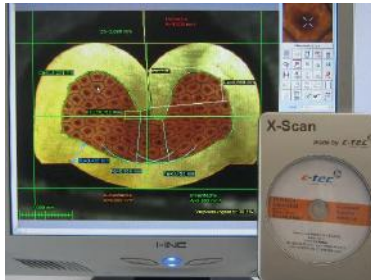
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Crimping Line



Terminal holder



Finished microsection with X-Scan



Optic with camera



Cut control with an optional
Cut Camera (VCS)

Performance features in detail

- Complete system, integrated ergonomically and functionally in an 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 5.0 megapixel CMOS-Sensor, optical class 1/2", USB 3.0
- 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)
- Long-life **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**
- 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: integrated **Cut Camera (VCS)** for exact cut control, easily operated by touch display
- Optional: **ancillary lens 0.5x** for 12x zoom objective for extended applications

Specifications

| | |
|---|--|
| Type | ML 3700 |
| 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 - 3.0 - 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 | 2560 x 1920 Pixel |
| Camera connection | USB 3.0 port |
| Object illumination | Longlife LED ring light for true color pictures |
| Fine polishing | electro chemical |
| 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 500mm x 570mm |
| Weight | 32 kg |