

"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.

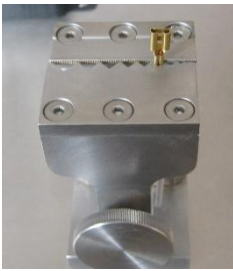
Equipped with a high quality 12x zoom objective the **Microlab ML 3700** is the ideal tool to conduct quality tests quick and comfortable. The high-resolution camera delivers first-class digital colour pictures which can be easily measured with the automatic function of the image processing software **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

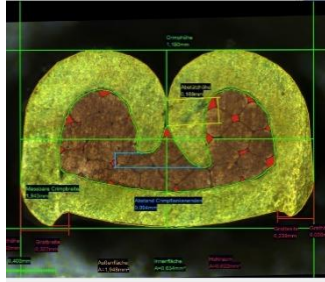
- **Complete micrograph laboratory** integrated in an MDF board
- Easily operated **optic with 12x zoom objective** with an outstanding combination of zoom and resolution
- **First-class digital colour camera USB 3.0** with CMOS sensor and a resolution of 3072x2048 pixels
- Well suited for cross sections from **0.1 to 10 mm<sup>2</sup>** (AWG 28 – AWG 10)
- Comfortable **analysis software X-Scan**

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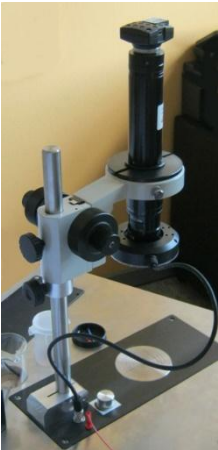
## Crimping Line



Terminal holder



Micrograph measurement with X-Scan



Optics with camera



JDS Drive System incl. Visual 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)
- Suitable for small and medium contact sizes from **0.1 to 10 mm<sup>2</sup>**
- Standard terminal holder for **cross sections up to 6 mm<sup>2</sup>** (further sizes available on request)
- Long-life **LED illumination** at the microscope
- Energy saving **working lamp** for the Cutting-/Grinding unit
- Appropriate tool set for the sample preparation
- With comfortable **analysis software X-Scan**
- Calibration base with measuring scale incl. calibration certificate
- Cross-sectioning of the sample can be carried out **without any disturbance** of the terminal and cable stranding
- Optional: **Drive System JDS 3.0** for more convenient and precise control when cutting and grinding
- Optional: integrated **Cut Camera (VCS)** for exact cut control, easily operated by touch display
- Optional: **ancillary lens 0.5x** or **0.25x** for extended applications

### Technical specification

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 $\mu\text{m}$ 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	3072x2048 pixels
Camera connection	USB 3.0 port
Object illumination	Long-life LED ring light for true color pictures
Fine polishing	electro chemical
Cross section sizes standard	0.1mm <sup>2</sup> - 10mm <sup>2</sup> (AWG 28 – AWG 10)
Recommended temperature	22°C +/- 5°
Dimensions (W x D x H)	1200mm x 500mm x 570mm
Weight	32 kg