



## Micrograph Laboratory ML series

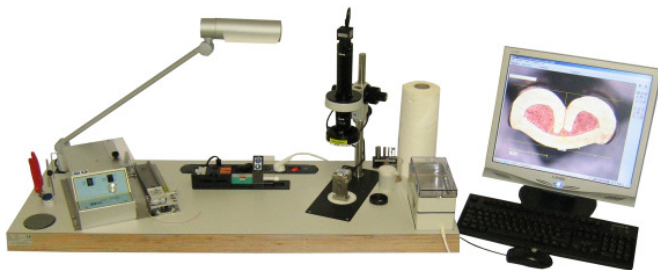
Tabletop laboratory for making crimp cross sections

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 a special PC-software.

Microlab consists of

- a Cutting-/Grinding Unit (ML3300),
- an Etching Unit (ML3400) and
- an Optical Unit (ML3200) with software "Microvision" for the analysis of the crimp cross sections.

These components are also available as **single** modules.



The model **Microlab ML3600** consists of

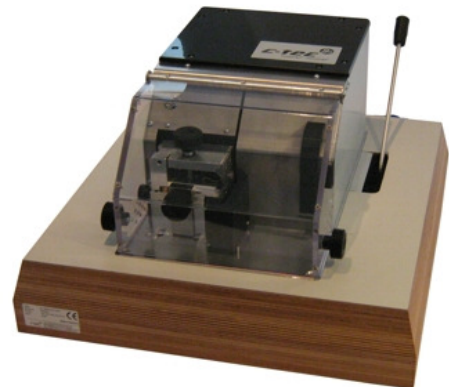
- a Cutting-/Grinding Unit (ML3300),
- an Etching Unit (ML3400) and
- an Optical Unit (ML3200)

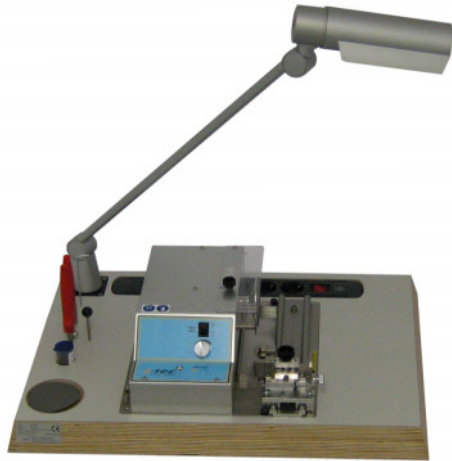
All components are built in an MDF board. The ML3600 is powered by electricity of 230 V 50 Hz.

The model **Microlab ML3700** differs from ML3600 by a high-resolution optics with comfortable handling.

The model **Microlab ML4000** consists of the laboratory ML3700 and an additional Cutting Unit "**Fine Cutter**" and a specimen holder for crimps up to 75 mm<sup>2</sup> (AWG 00).

Crimps up to 75 mm<sup>2</sup> (AWG 00) can be cut secure and precise. An accurate cut is important not to damage the lacing. Just in this case a perfect quality of the grinding marks can be secured.



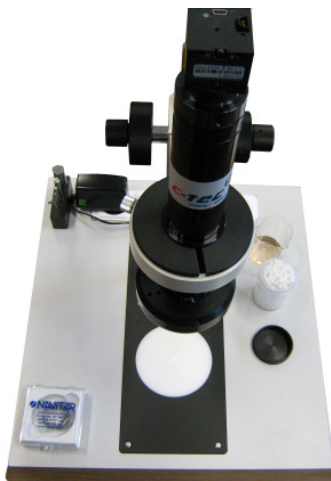


### Cutting-/Grinding Unit ML3300

The crimp can easily be mounted on a holder (specimen holder). After placing the holder on the slide and switching on the motor it can be exactly moved to the cutting wheel and afterwards moved to the grinding disc. The cutting- and grinding speed can be varied via a potentiometer. The position between crimp and grinding surface can be changed by a knob on the slide.

### Etching Unit ML3400

After grinding the sample turn the motor off and direct the holder with the crimp to the etching unit. After applying one drop of the etching medium on the cross section the sample – still fixed in the holder – will be placed under the microscope. The etching medium “Crimp Shining Silver Fluid CSSF” will clear the surface. For cleaning of the cross section the crimp is dipped into an ultrasonic bath.



### Optical Unit ML3200

After connecting a PC with the USB camera, starting the VIS software and turning on the light, the cross sections can be seen on the screen. Now the crimp can be measured, analyzed and stored with the help of the software Microvision.