



**MicroGraph System**  
Modular System for  
Crimp Cross Section Analysis

QUALITY ASSURANCE

# MicroGraph System

## Concept

Crimp cross sectional analysis has quickly become an integral part of the crimp quality process. With the MicroGraph System (MGS), crimp cross-sectional images can be created in a fraction of the time compared to conventional methods. The combined sawing-polishing process, innovative electrolyte staining process, and high precision optics result in high quality images for thorough analysis of the connection. Electrical connections (e.g. crimped, welded, soldered or spliced) can be cut (sawn), polished, stained (cleaned), and visually analyzed. The system includes modular components that can be combined according to individual needs. Ergonomically designed work tables are also available to optimize workflow when combining the components in one area. The complete system can also be integrated into mobile carts to create a mobile quality station.

## Applications

- Standard crimp
- Machined contact/indent crimp
- Ultrasonic and Resistance Welding
- Potting for cutting complete connectors, e.g. IDC

## Specifications

- Refer to individual datasheet for more information and specifications

## Special Features

### MicroGraph System (MGS)

- Modular system for a variety of applications
- Software interface to Schleuniger CrimpCenter family
- Numerous configuration possibilities such as table or cart or stand alone devices to suit various production requirements

## SawPolish Unit (SPU)

- SPU 6 and SPU 60 units available for processing wires up to 6 mm<sup>2</sup> and 60 mm<sup>2</sup> respectively
- In-line saw and polish discs for optimum process speed
- Carbide cutting blade for long life and precise cutting
- Various blade widths available for processing a wide range of wires

## MacroZoom Unit 1.3 (MZU)

- 2.0 USB camera with 1.3 Megapixel resolution for clear picture quality
- 9 incremental zoom positions for calibration for measurement repeatability and accuracy
- Optional auxiliary lens for expanded field of vision for larger samples
- CrimpLab software for capturing all key measurements and reporting

## Electrolyte Staining Unit (ESU)

- Safe and effective staining solution (Ph = 7)
- Staining indicator for instant process feedback
- Multiple staining pen sizes depending on the sample size

Technical Specifications	
Dimensions (L x W x H)	Optional Work Table (without components) 1107 x 768 x 951 mm (43.6 x 30.2 x 37.4") Optional Mobile Cart (without components) 600 x 600 x 1200 mm (23.6 x 23.6 x 47.2")
CE-Conformity	The MicroGraph System fully complies with all CE and EMC equipment guidelines relative to mechanical and electrical safety and electromagnetic compatibility.