



all  
work steps  
in one case

# SK 4000

## Mobile Micrograph Laboratory

- Quick
- Simple
- Inexpensive
- Mobile
- **ORIGINAL VISO 6.00 SOFTWARE**



Quality control

[www.smcontact.eu](http://www.smcontact.eu)

SPARE PARTS  
ON  
TOOLING.SMCONTACT.EU

## Quick, reliable and inexpensive

Our micrograph toolkit enables easy, quick, reliable, and inexpensive assessments of the quality of a crimp connection. All of the applicable work steps, including **cutting, grinding, etching and imaging**, are integrated in this micrograph laboratory. A sample holder with a quick tightener enables placing the sample without time-intensive mounting and resetting between the individual processing stages. A conclusive micrograph can be made at any time for spot-checking samples. Quality errors are found immediately and production errors are avoided.

### Advantages:

- Quick – 3-5 minutes after production of the connection, at the site.
- Simple – can be used after a short familiarization session.
- Inexpensive – 1 micrograph costs less than 1.00€. Example based on 10,000 micrographs incl. consumable materials, such as abrasive paper, felt tips, and electrolyte.
- In stock – Spare parts and consumables are available on [tooling.smcontact.eu](http://tooling.smcontact.eu)

## All work steps in one case

### Cutting and Grinding Module



The sample only needs to be attached manually to the sample holder once for the cutting and grinding process. The sample feed rate can be set very precisely using the **fine-adjustment**. The cutting and grinding module can be separately and steplessly controlled **up to 20,000 rotations** per minute. Cuttings drop into a tray and are **easily removed**.

### Electrolytic Etching Station



It helps with the **preparation of the polishing** surface after cutting and grinding. A felt pen soaked in electrolyte is used as a cathode. This removes the ridges and prepares the polishing structure so that the **detailing** can be recognized. The etching process can be continued or repeated as desired.





## Imaging

During evaluation, the sample container is always centered on the stand under the respective optic lens and the section remains visible. Any additional optics can be integrated into the system without reconfiguring. Everything can be stored in the case.

## Zoom Lens and USB Camera with LED Ring Light System

By using the USB camera, the additionally available software and a computer, all samples can be measured two-dimensionally, easily documented, managed, and archived. An external production can quickly send a copy of the micrographs, as needed or at regular intervals. This enables the QS department to evaluate the quality of the production process remotely, and intervene as needed.

## Viso 6.00 - updated original measurement software

**Viso 6.00** ensures automated splice quality control and immediate interaction between the customer and SM Contact engineers.

All the measurement results are automatically uploaded to customer's private area in SM Cloud data storage. If they diverge from the Control list, SM Contact engineers get a signal and provide customer with the assistance.

The program allows to do free measurement with appropriate presets or to use the Control list. It guarantees accurate and convenient measurements, including all tools, automatic calibration, dimensions detection, and data export to PDF meeting the industry-specific and factory standards. Annual re-validation of connections and updating of the Control list keeps the customer abreast the production quality throughout the whole machine lifecycle.

## Safe transport

To **safely transport** consumable materials, **two storage compartments** are integrated in the case. Its organization can be rearranged. The firm metal lids are quickly opened using clamping fasteners. The respective optical devices are stored in the case lid for safe transport.

### SM CONTACT GMBH

D-66113 Saarbrücken  
Germany  
Lebacher Str., 4  
Tel.: +49 (0) 9127 9536714  
sales\_de@smcontact.eu

### SM CONTACT ENGINEERING

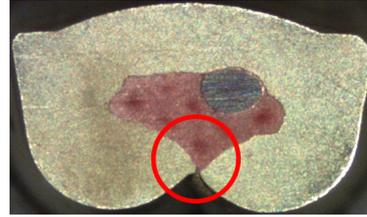
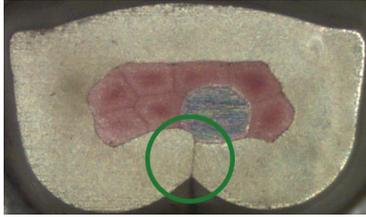
196191 Saint-Petersburg  
Russia  
21-A, Basseynaya Str.  
Tel.: +7 812 980 97 93  
info@smcontact.ru

### SM CONTACT ASIA

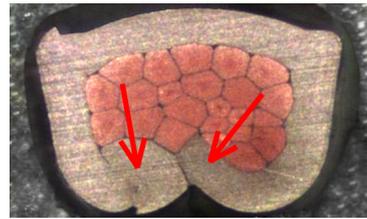
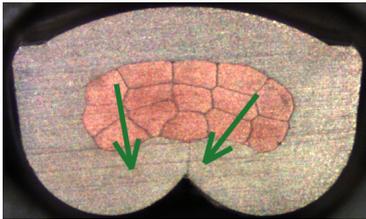
555 Panyu RD • GuangZhou Chi-  
na • 205 Exchange Center TianAn  
Hi-tech Ecological park  
Tel.: +86 (0)20 22883182  
info@smcontact.cn

# Crimp connection quality control

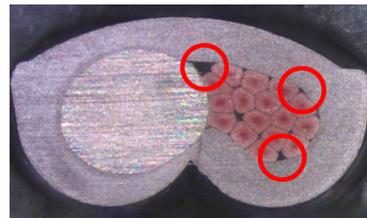
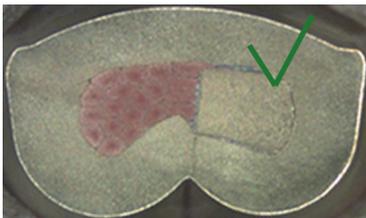
Tight closure



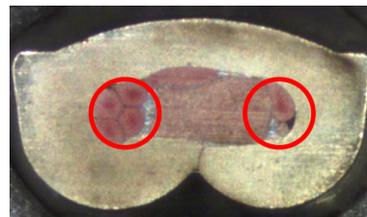
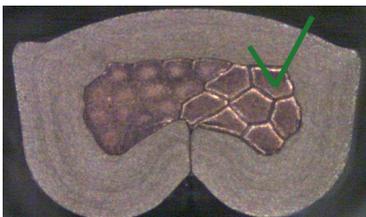
Connection Symmetry



Compression



Components positioning



Burrs („Cat ears“)

