SK 4000

Mobile Micrograph Laboratory

- Quick
- Simple
- Inexpensive
- Mobile
- Original Viso 6.00 Software
- ***PORTABLE & BENCHTOP VERSIONS***

Quality control

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-consuming mounting and resetting between individual processing stages. A conclusive micrograph can be made at any time for samples spot-checking. Quality defects are detected immediately, and production errors are avoided.

Advantages:

- Quick – 3-5 minutes after the connection production, 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**

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 **rotational speed** can be separately regulated from 5 000 to 20 000 rpm. 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 pickling process can be interrupted or resumed any time as desired.

- Agent: CE 1
- Voltage: 12 V
- Current: 1.5 A

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 sofware

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.

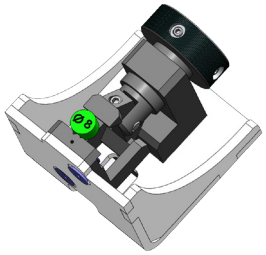
The program allows to do free measurement with appropriate presets or to use the Control list. It guarantees accurate and convenient measurements, including all tools, automatic calibration, dimensions detection, and data export to PDF meeting the industry-specific and factory standards. Annual re-validation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

Safe transport

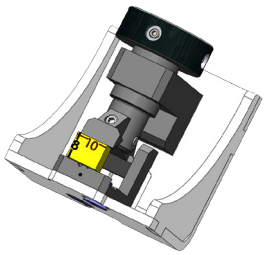
To **safely transport** consumable materials, **two storage compartments** are integrated in the case. Its organization can be rearranged. The firm metal lids are quickly opened using clamping fasteners. The respective optical devices are stored in the case lid for safe transport.

Technical Data

Operating voltage		230 V / 50 Hz 110 / 50 US, 100 / 60(50) JPN
Power		350 W
Dimensions, mm (W x D x H)	SKP 4000	465 x 408 x 437
	SKB 4000	575 x 517 x 484
Weight, kg	SKP 4000	26
	SKB 4000	26
Max. component dimensions (wire cross section & terminal)	Round	Max. Ø 8 mm (50 mm^2)
	Rectangular	Max. dimensions 8 x 10 mm



Round component



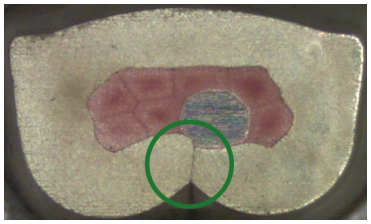
Rectangular component

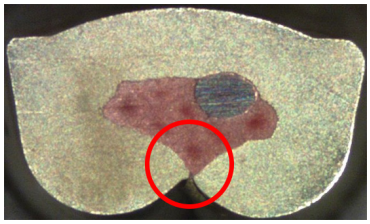
Supply kit

- Viso 6.00 Software / Viso 6.00 Software Upgrade
- Micrograph case including compartments for optical lens - for SKP 4000
- Micrograph case - for SKB 4000
- Optical lens: Zoom lens with USB camera, regulable LED ring light, software
- Tablet PC Assy - for SKB 4000
- Set of abrasive papers K800 (10 pcs.)
- Set of abrasive papers K1200 (10 pcs.)
- Set of cutting disks (5 pcs.)
- Sample holder
- Etching pen and connecting cable
- Etching pen inserts set (10 pcs.)
- Cleaning etching pen
- Cleanolyte CE 1 (50 ml bottle)
- Cross-line reticle
- Mains cable
- Hex keys set
- Open-ended spanner

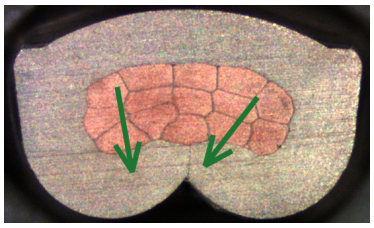
Crimp connection quality control

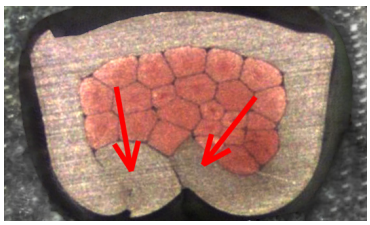
Tight closure



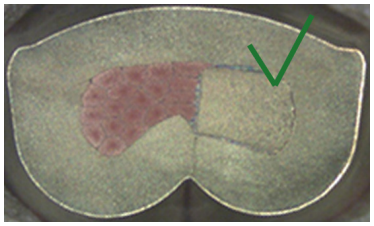


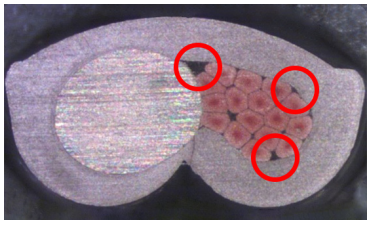
Connection Symmetry



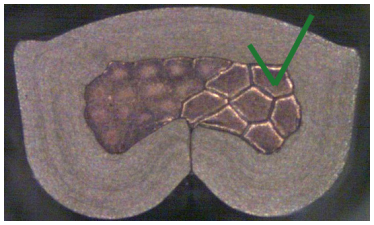


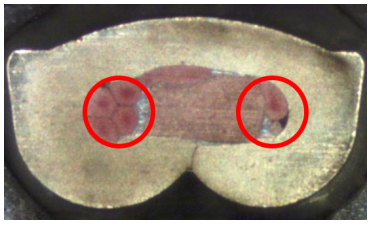
Compression



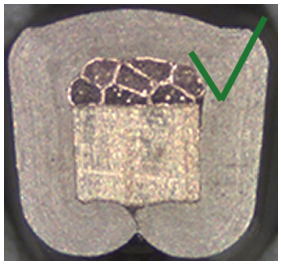


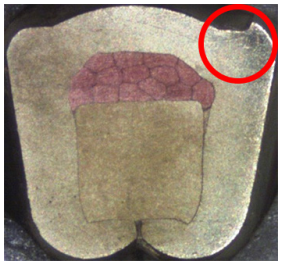
Components positioning





Burrs („Cat ears“)





SK 4000 on YouTube

READ MORE
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