



MICROFORCE 80

quality tools



komax

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Contact faults are often the result of crimped insulation and missing strands. To eradicate issues of this nature and guarantee complete functionality, MicroForce 80 has been designed to monitor quality for every single crimp. The test device enables the processing chain to be meticulously analyzed and the measured values to be documented. Based on these results, processes can be optimized, faulty crimps can be minimized and traceability can be guaranteed in the production process. Installing the sensor is quick and easy. MicroForce 80 combines reliable, tried-and-tested technology with high quality processing.

Incredibly efficient

- A detailed analysis allows the crimping process to be optimized
- Top measuring performance in defined cross-section range
- Robust design guarantees durability

Highly productive

- Documentation of each individual crimping force curve
- Article retention reduces changeover times
- Touchscreen for user-friendly operation

Remarkably flexible

- Predefined access authorization protects critical functions
- Universal, simple sensor enables a wide range of applications
- Flexible interface enables usage with fully automatic wire processing machines

GUARANTEEING QUALITY PRECISE AND EFFICIENT



Technical data

Cross-section range	0.35 – 6 mm ² AWG 22 – 10
Operating voltage	24 V DC
Power supply	ext. adapter 100 – 240 V AC, 50/60 Hz, 24 W
Display	5.0" color display with touch function
Dimensions (L x W x H)	146 x 46 x 106 mm
Mounting	Universal mounting
CE conformity	2006/42/EC



Detailed analysis of crimping process

MicroForce 80 enables a detailed analysis of the crimping process to be made with the minimum of effort. The sensor is bolted on to the frame of a crimping device or crimp module. It measures the force exerted by the pressing cycle on the frame. The results are prepared electronically, evaluated in the integrated software and shown on a 5" display. MicroForce 80 classifies each crimp as good or bad based on a comparison of the data with a reference curve.

Ideal conditions for high productivity

A great deal of time can be saved during changeovers thanks to the stored product data. All information required for production purposes – tolerance, batch size, learning crimp quantity, evaluation range, wire type and contact type – is immediately available at all times. This cuts out the need for complex and expensive manual work, which is vulnerable to human error.



01

Stable, documented process

MicroForce 80 enables the crimping process to be analyzed in detail and documented accordingly. The system presents the current crimping force curve, normal distribution and trend as a visual representation. Where required the process can be optimized using this information. Normal distribution provides information about the dispersion of the measured values. The series of measurements (encompassing up to 50 crimps) plots trends on the force curves and drifts if present.

Documentation of quality data

The results of the crimping force curve can be transferred to a storage medium via the USB interface. The machine-readable data can be used in various formats depending on requirements (Excel, Access). The data can also be fed back into a central system.

Intuitive touch and access rights

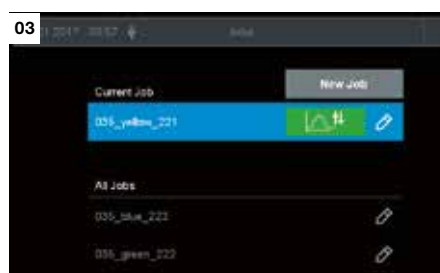
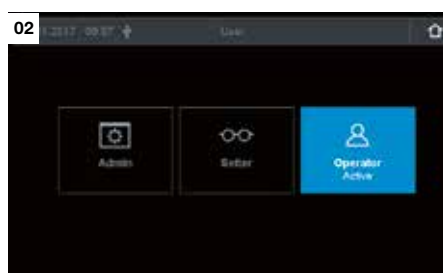
The intuitively designed touch display enables work to be carried out efficiently. Access to key functions can be protected via a password and predefined user access rights.

01
The sensor can be attached quickly and easily using a fixing screw.

02
Access is password-protected and predefined for each user.

03
Extremely short changeover times thanks to product data storage.

04
The crimp force curve for every crimp is compared against the reference curve.



Komax – leading the field now and in the future

As a pioneer and market leader in the field of automated wire processing, Komax provides its customers with innovative and sustainable solutions for any situation that calls for precise contact connections. Komax manufactures series and customer-specific machinery for various industries, catering for every degree of automation and customization. Its range of quality tools, test systems, and intelligent networking solutions complete the portfolio, and ensure safe and efficient production. Komax is a globally active Swiss company with development and production facilities on several continents. It supports customers locally in more than 60 countries with its extensive distribution and service network, ensuring the availability and value of their investments after equipment commissioning through standardized service processes. Komax includes more than 30 companies worldwide and employs around 1700 members of staff.

40
YEARS
CUTTING
EDGE

Market segments

Komax offers outstanding competence and solutions for various areas of application and draws on them to generate the desired value-added for the entire process and optimize economic efficiency in line with customer requirements. The main markets of Komax are as follows: automotive, aerospace, industrial and telecom & datacom. With this breadth of experience, customers obtain expert knowledge for process optimization and access to the latest technologies.



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