komax

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 & data-com. With this breadth of experience, customers obtain expert knowledge for process optimization and access to the latest technologies.

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. Komax uses its extensive distribution and service network, which includes local companies and their employees, to support customers across the world on site, thus ensuring the availability and value of their investments after equipment commissioning through standardized service processes.

MAKE
THE BEST
QUALITY

The complete assurance of quality is one of the most important competitive factors, whereby the creation of micrographs during production is indispensable.
The Komax micrograph laboratories are an essential component within the modern quality management engineering.

FAST
AND RELIABLE
QUALITY ASSURANCE

MICROLAB OVERVIEW

	MicroLab 10	**MicroLab 30**	**MicroLab 45**	**MicroLab 55**
	compact mobile for small contacts	automated processes mobile for small to large contacts	for large volumes optimized wet processes for small contacts	flexible optimized wet processes for all contact types

APPLICATION RANGE

	MicroLab 10	**MicroLab 30**	**MicroLab 45**	**MicroLab 55**
CRIMP	B-Crimp	B-Crimp, MIL-Crimp, HEX-Crimp	B-Crimp, MIL-Crimp, HEX-Crimp	B-Crimp, MIL-Crimp, HEX-Crimp, welding
LONGITUDINAL SECTION				●
MATERIALS	copper	copper (aluminum optional)	copper, aluminum and steel	copper (aluminum optional)
PROCESSING AREA (max. contact-Ø)	Ø 0.50 mm – Ø 2.50 mm (corresponds approx. 0.08 – 5.00 mm²)	Ø 0.50 mm – Ø 10.00 mm (corresponds approx. 0.08 – 80.00 mm²)	Ø 0.50 mm – Ø 6.00 mm (corresponds approximately 0.08 – 16.00 mm²)	Ø 0.50 mm – Ø 30.00 mm (corresponds approx. 0.08 – 400.00 mm²)
PROCESSING TIME	~ 100 s	~ 100 s	~ 70 s (two operators required)	~ 140 s
PROCESSING VOLUME	low	medium	high	medium

DELIVERY SCOPE

	MicroLab 10	**MicroLab 30**		**MicroLab 45**		**MicroLab 55**	
CUTTING	manual separation unit dry with cutting disc	automatic separation unit dry with saw blade	*basic device*	automatic separation unit wet with diamnond cutting disc	*basic device*	automatic separation unit wet with cutting disc (saw blade optional)	*basic device*
GRINDING	dry grinding unit (manual regrinding)	dry grinding unit (automatic regrinding)		wet grinding unit (manual regrinding)		wet grinding unit (manual regrinding)	
ETCHING	manual etching	SmartEtch (automatic etching module)		SmartOptic with integrated etching function (automatic etching module)		SmartEtch (automatic etching module)	
IMAGE CAPTURE	Optics camera 6.3 MP	SmartOptic 20.0 MP		Optics camera 20.0 MP		SmartOptic camera 20.0 MP	
EVALUATION SOFTWARE	SmartVision	SmartVision		SmartVision		SmartVision	
EVALUATION HARDWARE	not included (laptop optional)	not included (laptop optional)		PC-system		PC-system	

SAMPLE HOLDER

	MicroLab 10	**MicroLab 30**	**MicroLab 45**	**MicroLab 55**
SH 1 – sample holder 1 0.08 mm² – 0.22 mm²	◐	◐	●	◐
SH 2 – sample holder 2 0.22 mm² – 6.00 mm²	◐	●	●	●
SH 3 – sample holder 3 4.00 mm² – 12.00 mm²		◐	●	◐
SH 4 – sample holder 4 10.00 mm² – 100.00 mm²		◐		◐
SH 5 – sample holder 5 0.25 mm² – 5.00 mm²	●			
UH 1 – universal sample holder 1 span 28.00 mm				◐
UH 2 – universal sample holder 2 span 36.00 mm				◐

● inclusive
◐ optional

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