

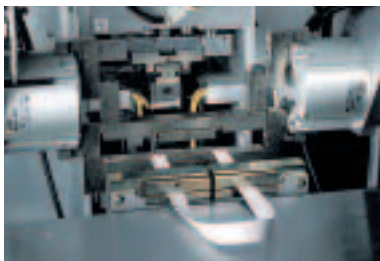
## Economical FFC processing with high quality results

Komax Lambda 9100 – Flexibility for complex solutions



The use of ultra-modern cable harnesses in automobiles demands that new connection approaches be developed. Flexible flat cables are used increasingly in addition to conventional copper to save space and reduce weight. The processing of these materials is a demanding task and has to be done by machines.

**Beat Wicki** *Head of System Business*



Stripping of flexible flat cables (FFC)



V-forming of conductor tracks in preparation for subsequent crimping



Conductor track crimping with integrated crimp force analyzer CFA



Fully automatic Lambda 9100 for flexible flat cables



Fully automatic processing of FLC (flat laminated cable) and exFC (extruded flat cable) – cost effective and in top quality

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With its Lambda 9100, Komax offers flexible solutions for the economical processing of flexible flat cables (FFC). We assist customers already in selecting the processing methods.

### Controlled processes

Flexible flat cables are fed to the system in an endless process and can be marked with an integrated inkjet marker if required. You can also easily integrate processes like punching interruptions in conductor tracks, strain relief holes and centering holes as well as stripping, forming, crimping, piercing and

attachment of components to FFC (block loading in single and mass termination processes). The completed FFC are then joined into complete wire harnesses in ultrasonic or resistance welding processes.

### Successful market launch

Last year Komax developed and launched the first system in response to a customer order. This fully automatic machine is unlike any other in the world and attracted a lot of attention and interest at the Pro Electronica 2003. A further large order for the processing of FFC, including block loading, indicates that the need for new connection technologies is steadily rising. The degree of automation in the processing of FFC connections is much higher than with conventional harness structures. This is certainly a key to the growing popularity of FFC.