

Zeta 633 / Zeta 633 L

Whole new dimension of flexibility

komax WIRE



THE WAY TO MAKE IT | FLEXIBLE

Fully automatic crimping machines that can be expanded at will and transformed into an insertion system. Here, Komax incorporates trends in wire processing and consistently implements them. As a result, the Zeta 633 / Zeta 633 L meets the growing need for unlimited flexibility.

Zeta 633 L provides further system combinations. Flexible solutions can be geared even more closely to customers' individual needs.

Zeta 633

Zeta 633 is a highly flexible fully automatic crimping machine used for just-in-time production. With its flexible machine concept, the Zeta 633 opens up an almost unlimited number of possibilities for handling small jobs and wire sequences.

Zeta 633 L

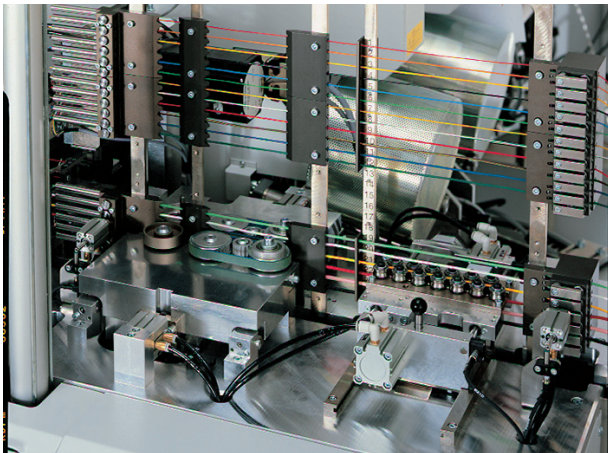
With the additional processing stations, the operator can reduce the required material changeovers and interruptions in production to a minimum. Many applications can now be produced without an additional extension, cutting investment expenses dramatically.



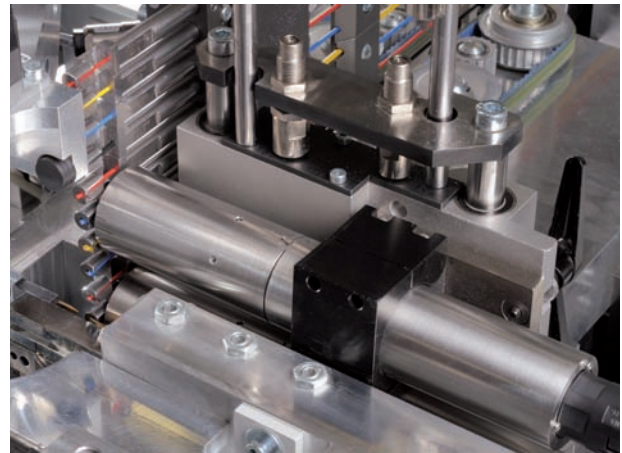
▲ Zeta 633 Basic machine



▲ Zeta 633 L Basic machine



▲ Fully automatic wire selector



▲ Double-head marking

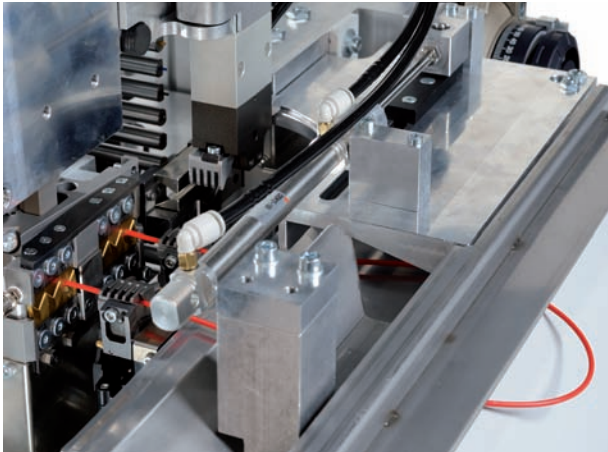
Flexibility

Up to 36 conductors are available for wire feed without changeover. Wire transport can be adapted to the specific properties of each conductor. Modules can be configured as desired along the entire length of the Zeta 633 / Zeta 633 L. That means total flexibility for each area of application. The wires can be bundled or deposited in predefined order as a chain.

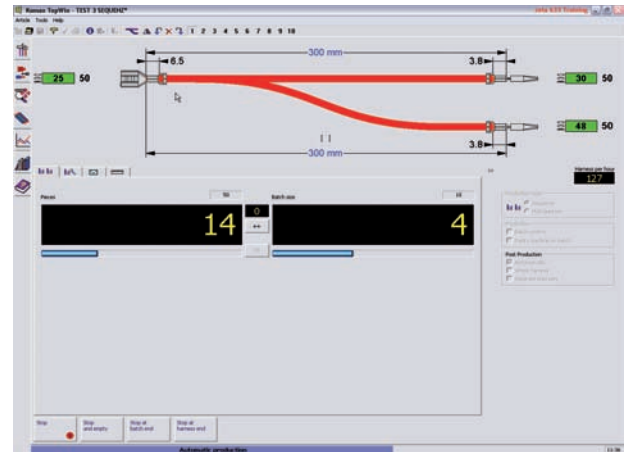
The Zeta 633 / Zeta 633 L also serves as the basic machine for the Zeta 651, Zeta 656 and splice module (SP). Customer-specific modules such as IDC processing can also be installed.

Technology

Applying the loop transfer principle, the device feeds the two wire ends of the loop individually one after the other to the appropriate processing station. Variably programmable shuttles make this possible. All wire movements are carried out with highly dynamic servo axes. The basic machine accommodates up to eight processing stations. If need be, the machine can be successively expanded and has space for up to thirteen processing stations.



▲ Blade head and looper



▲ TopWin user interface

User friendly

Optimum access and personal safety were two top priorities in the design of the Zeta 633 / Zeta 633 L. The safety cover opens vertically, allowing excellent accessibility from all sides. All material handling is done consistently from one side of the machine. The wire selector can be set up conveniently at the press of a button. The well-known TopWin user interface and a user console that slides along the entire transfer section are further features that maximize operational convenience. Produced wires or bundles can be removed while the machine is running.

Quality monitoring

Crimp-height and pull-out force measurement are integrated in the process sequence. The measured results from the measuring devices are transferred automatically to the user software and compared with the set values. Incorrect entries can be avoided in this way. Production cannot commence until the measured results match the specified values. The material is scanned in with the optional barcode scanner prior to the start of production and compared with the stipulated values. This step prevents materials from getting mixed up.

The processes are constantly monitored during production. In the event of an error, incorrectly processed cables are automatically removed and post-produced.









TopWin

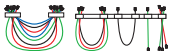







The TopWin graphical user interface is designed for quick and simple data input. With its easy-to-understand structure, users are able to master the machine in no time at all. User tips are presented clearly in graphics. Customer-specific processing stations can be integrated into the machine's production sequence. The optional interface, the WPCS (Wire Processing Communication Standard), allows Komax machines to be networked and easily integrated into existing production processes.

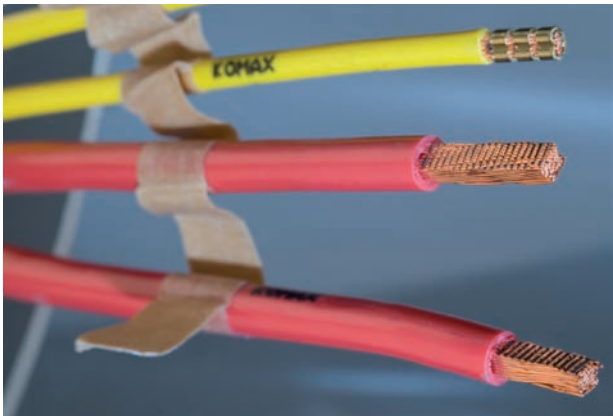
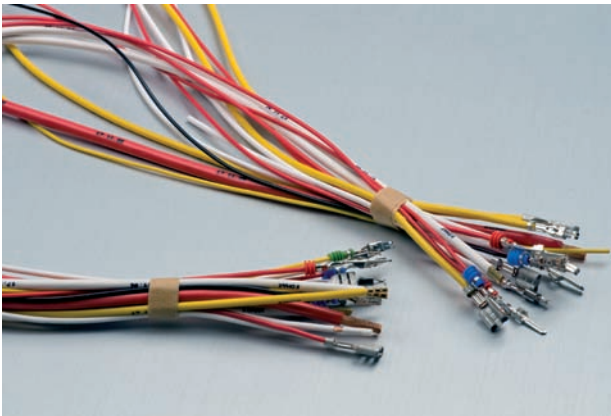
Your benefits

- Up to 36 different conductors can be processed without changeover
- Station layout can be defined as desired
- Full integration of existing processing stations
- High processing quality
- TopWin: Existing user expertise can be applied immediately.
- Excellent accessibility and safety
- Newest technology
- Successively expandable
- Prepared for Zeta 651 and Zeta 656 block loaders
- Fully integrated quality monitoring with good/bad sorting
- Customer specified special applications possible

Application sample Zeta 633 / 633 L

Cutting	
Half strip	
Full strip	
Crimping	
Seal insertion	
Split cycle for closed barrel	
Double sheath cable	
Sequence	

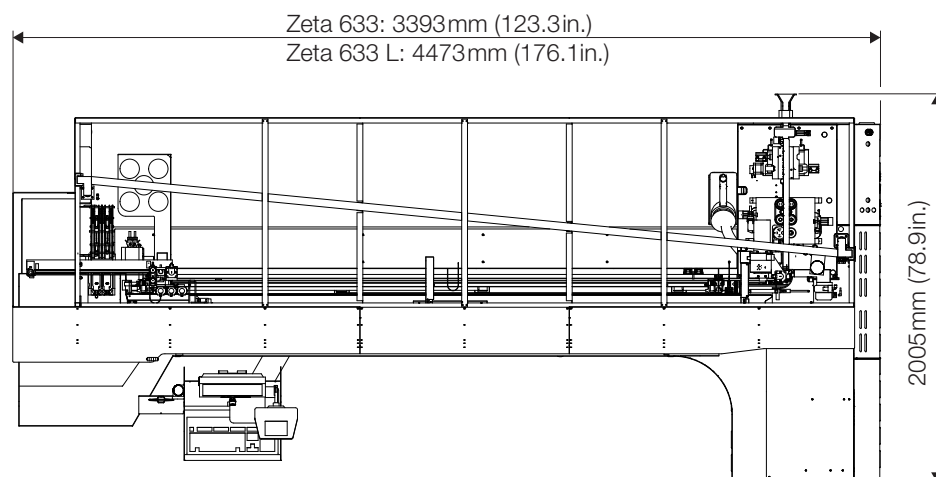
Binding	
Inkjet marking	
Double crimping	
Twisting / Tinning	
Sleeve insertion	
Ferrule crimping	
MIL-Crimping	
Wire end solidifying / Splicing / Welding	



Options and accessories

Marking systems	Komax Inkjet marking system IMS
Wire infeed	Expandable wire selector
Processing modules	Crimping module mci 712 Crimping module mci 722 (with programmed crimp heights) Seal loading module mci 765 C (with seal position monitoring SPM) Sleeve module mci 792 Twisting module mci 782 Tinning module ioc 785 MIL-crimping module Wire end ferrule module AEH Ultrasonic compaction Double gripper module
Quality control	Integrated crimp height measurement Integrated pull-off force measurement Crimp force analyzer CFA/CFA+ Splice check Contact supply monitor Wire-end detection Seal monitoring Check on projecting strand
Deposit systems	Bundling Flex-bundling
Accessories	Option for short wire Station tables Towerlight Software: Networking WPCS Data conversion TopConvert Production control center KomaxCAO

Machine layout Zeta 633 / Zeta 633 L



Height with cover closed: 1990mm (78.4in.)
Height with cover open: 2870mm (113in.)

Technical data

Length range	240mm–3000mm (9.45in.–118in.), standard tray 240mm–10000mm (9.45in.–394in.), optional	
Length accuracy	±1mm (0.04in.), or <0.2% Depending on wire length	
Stripping lengths with full strip	0.1 mm–25mm (0.004in.–0.98in.)	
Stripping lengths with partial strip	0.1 mm–42mm (0.004in.–1.65in.)	
Wire cross-sections*	0.13mm ² –6mm ² (AWG26–AWG10)	
Useable transfer length	Zeta 633	1800mm (70.87in.), basic machine
	Zeta 633 L	2880mm (113.4in.), basic machine
	Extension	1720mm (67.7in.)
Wire infeed speed	max. 10m/s (33ft./s)	
Kabelwechsler	max. 36 cables	
Noise level	<75dB (without crimp modules)	
Electrical connection	3×208–480V, 50/60Hz, 10kVA (basic machine)	
Pneumatic connection	5–6bar (73–87psi) 12m ³ /h (424ft ³ /h)	
Weight	Zeta 633	approx. 1900kg (4189lb)
	Zeta 633 L	approx. 2600kg (5732lb)

* Extremely hard and tough wires may not be able to be processed even if they are within the above cross section range. If you are in doubt about your wires, we are happy to process samples of them.

More information about
our products:



www.komaxwire.com

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