KTK GmbH

AUTOMATION & CRIMPTECHNIK

Innovation in Crimping Technology

CX 400 // CX 55MS from KTK



KTK CX 400 Crimping Press

The world of crimp connections is on the verge of a revolutionary change.

KTK, in collaboration with AHP and TM-Solutions, has developed a groundbreaking crimping press that redefines the crimping process. Until now, the quality of the crimp connection was heavily dependent on the crimp height and width, which were determined by the eccentric motion of traditional crimping press technology. But now, with our new electrohydraulic technology, we are setting a new standard.

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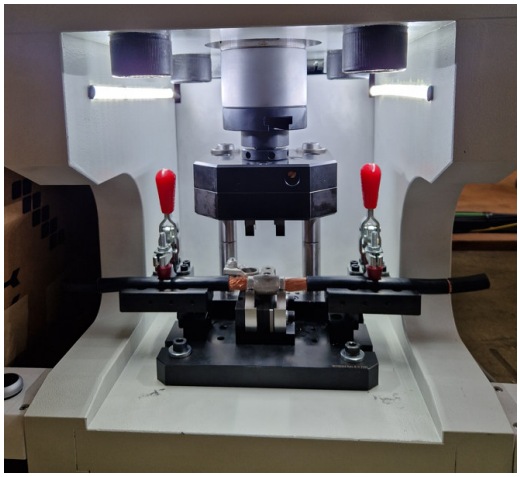
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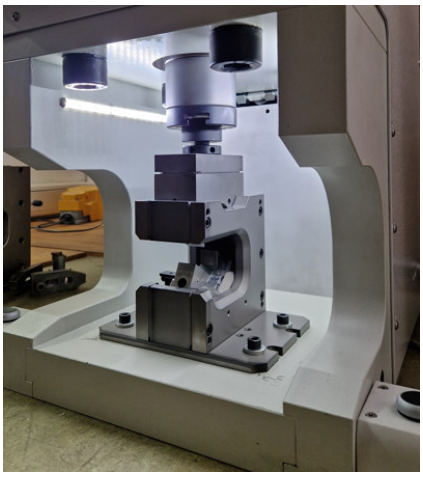
Precision Reimagined

With our innovative electrohydraulic components, we can precisely adjust the crimping force during the crimping process. This is done within the specified tolerances of the respective contact manufacturers and enables us to achieve an optimal crimping force. The benefit to you is improved “gas tightness,” even if strands are missing or the cross-sections vary.

Unique Programmability

A key feature of this new crimping press is the freely programmable stroke of hydraulic axes. With an impressive adjustment accuracy of ±0.01 mm, our technology sets a new standard in the world of crimping. This precision allows us to address the specific requirements of each application and thereby significantly improve the quality of the connections.





In today’s dynamic manufacturing world, it is crucial to respond specifically to market demands. The press CX 400 is designed for processing large cross-sections, thereby ensuring precise and reliable operation. The press CX 55MS offers versatile options for MQS applications. With these innovative solutions, we are setting new standards in cable processing and helping to optimize production processes in the electrical engineering industry.

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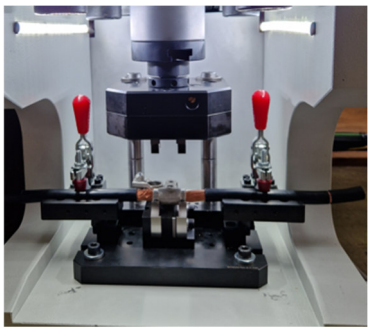
Crimping Press CX 400 - The Powerful Solution

The crimping press **CX 400** is a single-stroke, electrohydraulic machine that is ideally suited for processing individual contacts with large cross-sections. With an impressive pressing force of 400 kN and a pulling force of 300 kN, this press can be used for applications far beyond simple crimping tasks.

Applications of the **CX 400**

- Crimping up to 400 mm² (depending on the contact)
- Forming, reshaping, and punching busbars and contacts
- **Optional**: Pull force and height measuring device for precise results

To ensure an optimal manufacturing process, we rely on our KTK- tools, which are available in a wide variety of configurations. This enables us to provide a customized solution for every specific application.



Heavy Duty tool JSWQ



4-pont tool J4D



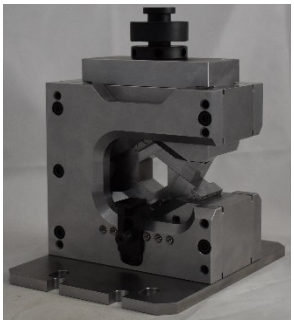
Heavy Duty tool JSW



Minitool JSQ



Die adapter JHY, WDT & Klauke



Crimpingtool J6D

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Crimping Tool CX 55MS – Flexibility in Perfection

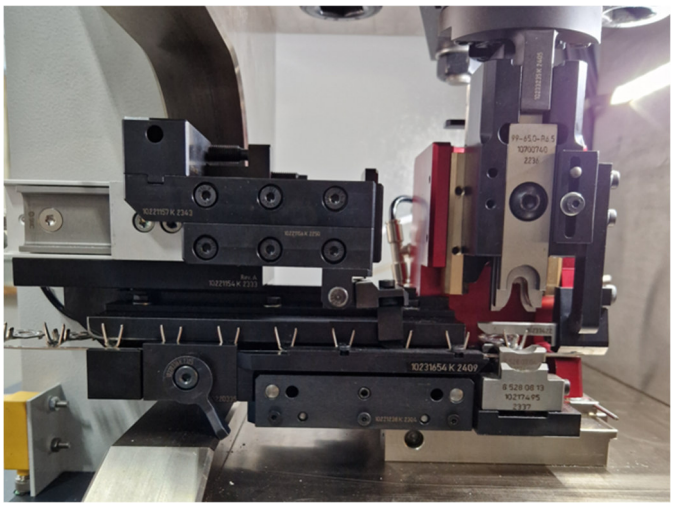


The CX 55MS crimping press, on the other hand, is a two-stroke, electrohydraulic machine. It is particularly well-suited for processing strip-terminated contacts and contacts with different crimping zones (wire and insulation crimping) for standard applications (closing height 135.78mm). A standout feature of this press is its two individually adjustable axes, which allow the crimp heights to be set independently of one another without changing the tool's basic settings.

Options:

- Contact strip cutter
- Paper winder with sensor
- Sensors for tool & contact reel
- Andon system (signal lights)
- RFID chip for tool recognition and maintenance interval

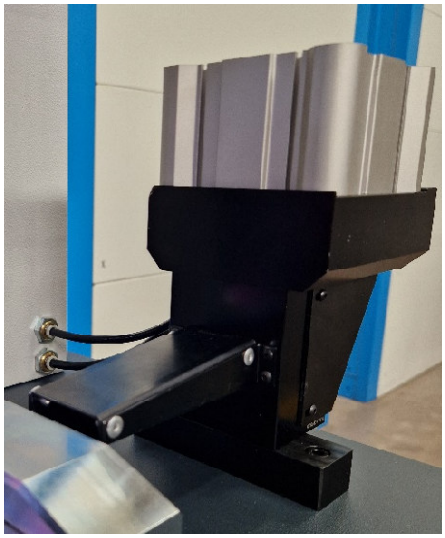
The ideal combination of manufacturing processes is ensured using KTK-tools that are available in a wide variety of configurations:



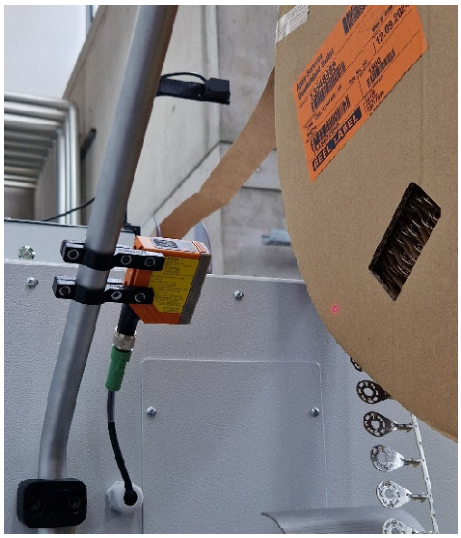
Crimping tool JG for CX 55MS

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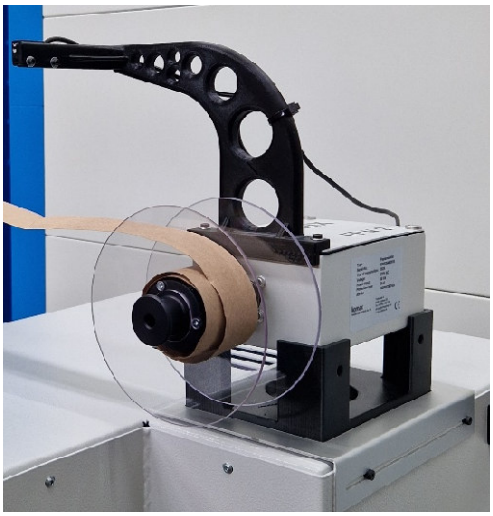
Contact Strip Chopper



Sensor Contact Reel



Andon-System



Paper Winder with Sensor

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Technical Specifications	
CX 400	**CX 55MS**
Individually adjustable axis	Two separate, individually adjustable axes
Max. pushing force: 400 kN (40 t)	Max. pushing force: 55 kN (5.5 t)
Stroke: max. 60 mm	Stroke: max. 50mm
Closing height: min. 165 mm (variably adjustable)	Closing height: min. 156 mm (variably adjustable)
Stroke tolerance: ±0.01 mm	Stroke tolerance: ±0,01 mm
Operating speed: 16 mm/s (max. 400 kN)	Operating speed: 47 mm/s (max. 55 kN)
Cycle time: approx. 2 s (depending on stroke & program)	Cycle time: approx. 1,5 s (depending on stroke & program)
Noise level: max. 62 dB	Noise level: max. 62 dB
Dimensions: 1020x454x560mm (HxWxD)	Dimensions:1900x740x1160mm (HxWxD)
Weight: approx. 550 kg	Weight: approx. 835 kg
Information/Analysis	
7-inch display with piece and batch counter	7-inch display with piece and batch counter
Error analysis & multilingual	Error analysis & multilingual
OPC UA capable	OPC UA capable
Integrated crimp force monitoring for evaluating crimp results	Integrated crimp force monitoring for evaluating crimp results
Memory card for CFM documentation	Memory card for CFM documentation
Modern Modbus TCP interface	Modern Modbus TCP interface
Control	
100 memory slots for custom recipes to optimize cycle times and crimp results	100 memory slots for custom recipes to optimize cycle times and crimp results
Tool Types	
JSW & JSWQ (Stroke = 50mm)	Minitool JG & JT V2.2 & V2.3
JS, JSQ & J4D (Stroke = 40mm) -> separate adapter plate & tool holder	Minitool JSQ & JS (depending on the program)
Die holders for JHY, WDT & Klauke	
User Interface	
Multiple password-protected users for different permissions and applications	Multiple password-protected users for different permissions and applications