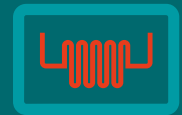


PROCESS & TECHNOLOGY

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Ultrasonic Wire Embedding



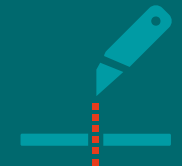
Control Systems



Dispensing



Testing



Sheet Cutting/Punching



Pick & Place



Bonding/Soldering



Sorting/Feeding



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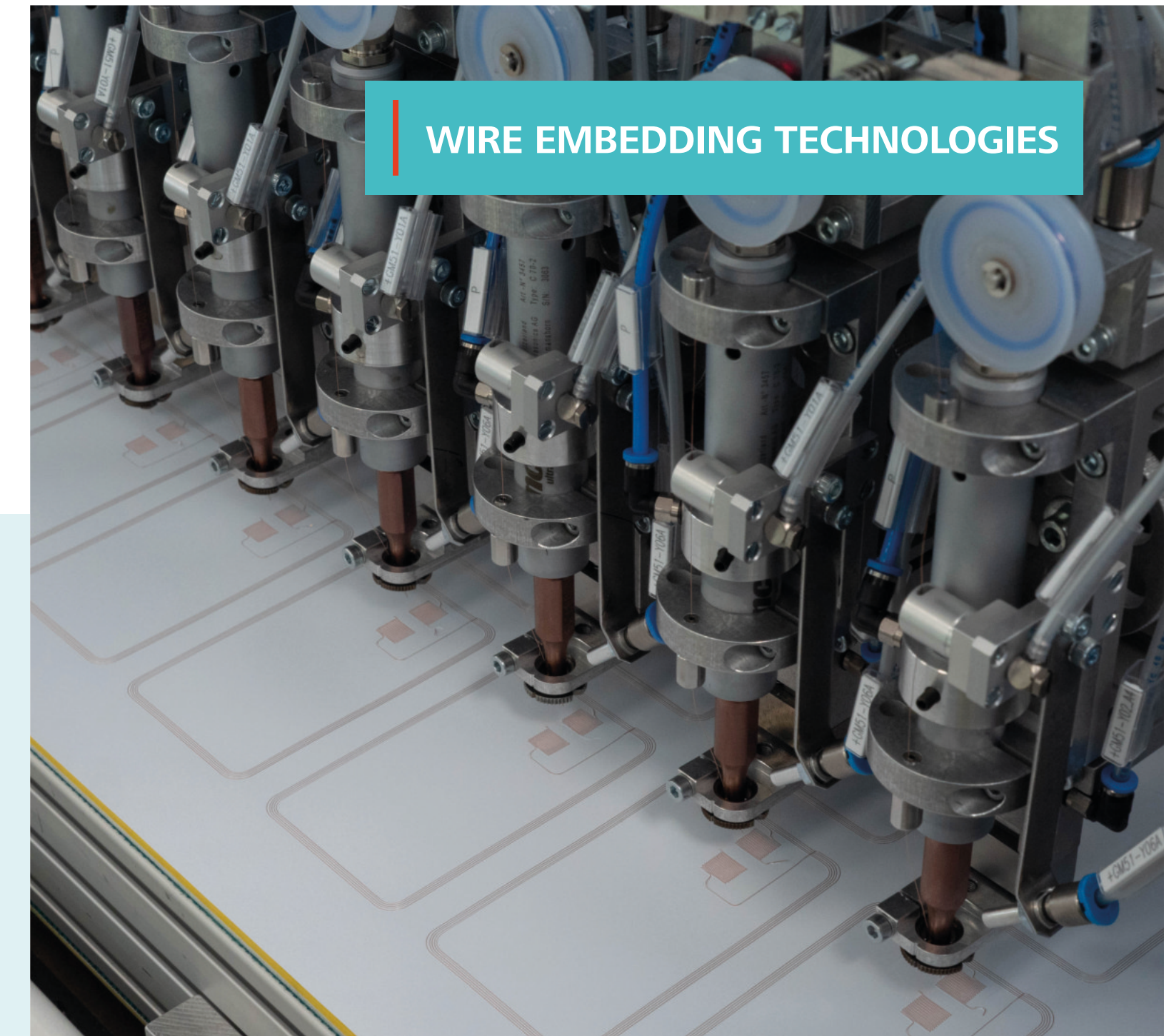
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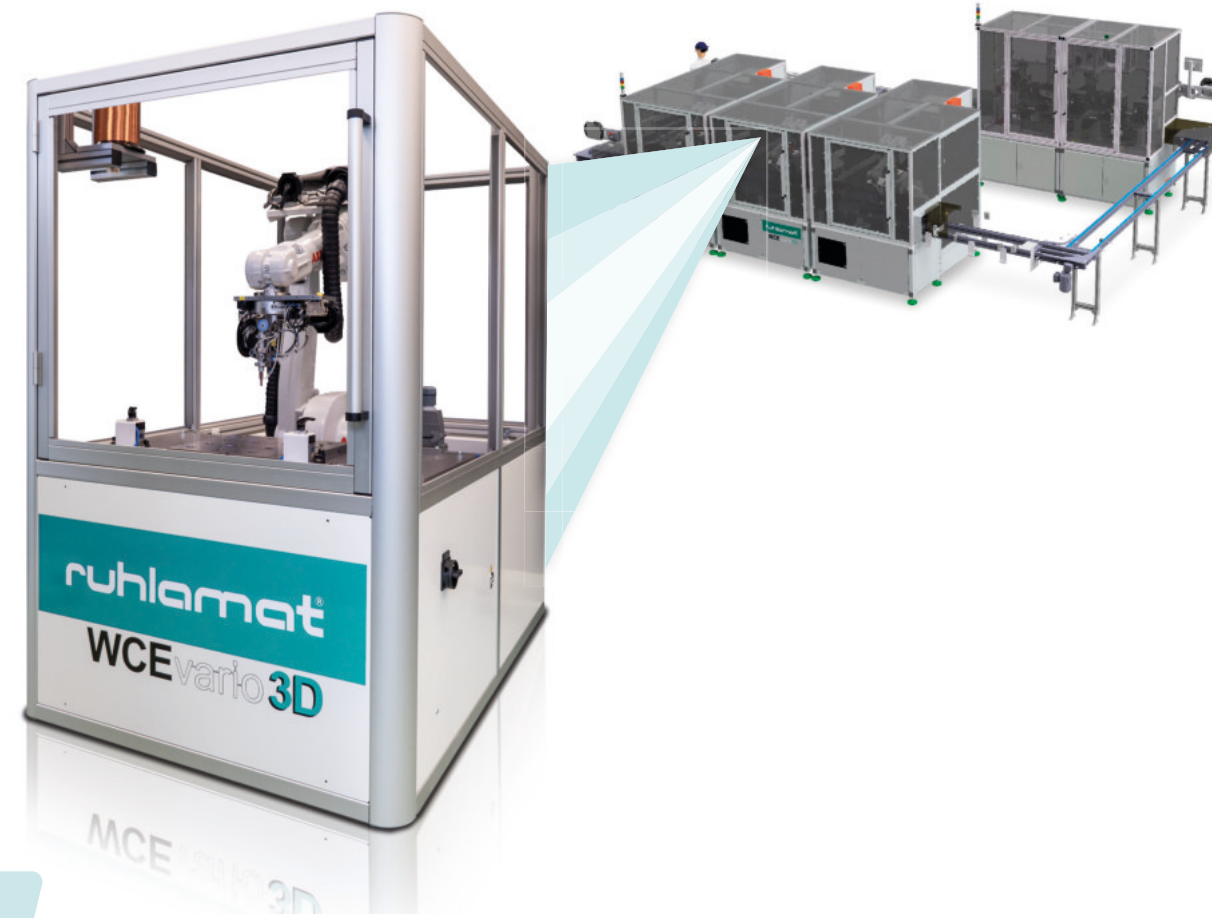
WIRE EMBEDDING TECHNOLOGIES



ruhlamat – WCE150
Small production system for 2D processes



ruhlamat – WCEvario3D
Single robot cell system for 3D applications



ruhlamat – FILUS 1520
Production system for 2D applications and large product sizes



WCE150 is designed for wire embedding for 2D applications. Based on a single-station concept with manual load and unload, it is a convenient solution for small production volumes with a working area of approx. 600mm x 600mm.

WCEvario3D is designed for 3D wire embedding applications and is a beyond state-of-the-art single robot cell system. Starting as a single robot cell for small production or prototype construction up to the heart of a fully automated production line.

Filus 1520 is a wire embedding system for 2D applications and product sizes up to 1500mm x 2000mm (others on request). By integrating different tools and technologies, the production of complete electrical units is possible. A typical application for the Filus1520 in the automotive sector is the wiring of antennas for manufacturing of car windshields.

Benefits and features:

- › Affordable system for prototyping and small production batches
- › Very precise and accurate wire embedding on various substrates and with different kinds of wires
- › Automated intermetallic bonding process
- › Inlay sheet fixing on vacuum table
- › Ultrasonic wire embedding with up to 8 wire embedding heads
- › Possibility of integration in a fully automated machine according to customer request

Benefits and features:

- › Highly precise and reliable wire embedding onto different substrates and a wide range of wire diameters can be handled
- › Force-control interface for a highly accurate customization of the given shape
- › Ideal for small batches, process development and prototype production
- › Costly and time-consuming intermediate steps can be eliminated (such as deep drawing), Processing size of workpieces: 300mm x 300mm x 200mm
- › Customizable working area and easy integration in full automated production lines

Benefits and features:

- › Up to 5 tools and 3 ultrasonic wire embedding heads possible
- › Ultrasonic wire embedding for conduction paths, inductor coils, antennas
- › Cutting
- › Pick & Place (place/combine components)
- › Dispensing (conductive glue, encapsulation)
- › Plotting (drawing, marking)
- › Hot stamping
- › Possibility of integration in fully automated machines according to customer request

