

Wire Embedding Systems

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Reliable 2D and 3D wire embedding of the highest quality

Whether you want to lay wire on a flat surface such as plastic cards or embed wire in the contours of plastic vehicle sensor covers, ruhlamat offers fast and reliable ultrasonic wire-embedding systems for 2D and 3D tasks to meet all of your business needs.

With different performance levels from the space-saving laboratory system to the high-speed 2D handling system, we are up to any challenge. Our clients profit from our decades of expertise in ultrasonic wire embedding, highly complex automation solutions and sonotrode know-how for various substrate-wire combinations.

Since 1997, we have been working on optimizing wire-embedding technology for a variety of industries and applications. Examples of some these are [antenna inlays for the production of ePassports](#), [1] ID cards and contactless cards as well as wire embedding with concave and convex contours mainly for the production of heatable covers in the automotive sector.



[2]

[2D Wire embedding technology](#) [2]

With the ruhlamat **FILUS** and the **WCE2D**, you can achieve **large-area and precise wire-embedding results**. In addition to wire embedding, pick-and-place handling and cutting, this 2D wire-embedding solution is also precise at soldering and dosing.



[3]

[3D Wire embedding technology](#) [3]

The **WCEvario3D** captivates through its flexible application options: **From flat surfaces to concave and convex contours**, the flexible robotic arm with a **state-of-the-art wire-laying head** and constant pressure-force control **can handle all dimensions**.

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