

Flexibility redefined – the RAMPF MC Multipurpose Cell

Innovative cell concept combines dispensing, joining, and testing technology in a compact unit

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Zimmern ob Rottweil, Germany, May 17, 2021. In a world first from RAMPF Production Systems, the MC multipurpose cell combines dispensing, joining, and testing technology in a single compact cell. Customers have a choice of several cell sizes with different widths and depths for the fully or semi-automated integration of specific sealing, casting, and bonding technology.



The RAMPF MC multipurpose cell concept is designed as follows:

- > Depending on the configuration and dimensions, the selection of manual elements includes lifting doors, light grids, and sliding tables.
- > Fully automated elements involve a conveyor system or robot.
- > Additional upstream surface treatment in the form of plasma activation, deionization, or laser cleaning optimizes component preparation for the dispensing process.
- > Small robots pick up components, handle them on rotary indexing or sliding tables, and assemble them with other components if necessary.
- > High-tech camera systems monitor the testing and quality control of finished components.
- > For the dispensing system, material feeding and handling is carried out via pumps; for container sizes, barrels, hobbocks, and cartridges are available.
- > The modular structure and the option of connecting several cells one behind the other extend the multipurpose cell to an extensive production line.

The MC multipurpose cell makes light work of processing single- or multi-component materials from liquid form to paste-like consistency, including highly abrasive gap fillers that are primarily used in electronics components.

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Beckhoff or Siemens systems take care of control tasks, with intuitive operation via RAMPF's own HMI, which is integrated into large-size touchscreen on the swivel arm.

Alexander Huttenlocher, Director of Sales & Marketing at RAMPF Production Systems – “Our MC multipurpose cell offers each and every customer a tailored, space-saving concept for all dispensing, joining, and assembly tasks. It is a further addition to our wide-ranging portfolio of automation solutions and dispensing technology.”

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RAMPF Production Systems GmbH & Co. KG develops and produces mixing and dispensing systems for sealing, casting, and bonding a wide variety of materials. The company also offers a wide range of automation skills relating to all aspects of process engineering.

With its more than 3,000 systems solutions on the market, RAMPF Production Systems, based in Zimmern ob Rottweil, Germany, is one of the world's leading suppliers of innovative systems for processing single, dual, and multi-component reactive resin systems.

In addition to the core competence of mixing and dispensing technology, customers are provided with a broad range of automation and conveyor systems for internal logistics, additional assembly and joining technology, as well as logistic and quality assurance solutions. The customer-specific solutions also include the integration of testing and measuring technology into production facilities to safeguard production processes.

This added value enables RAMPF Production Systems to supply its customers with holistic system solutions for their production facilities.

RAMPF Production Systems is a company of the international **RAMPF Group** based in Grafenberg, Germany.

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