

# Automated solutions for sealing, casting, and bonding

RAMPF at Fakuma 2018 – Holistic production concepts for household appliance and automotive industries

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**Zimmern o. R., October 4, 2018. RAMPF Production Systems is presenting integrated production systems for sealing, casting, and bonding of products in the household appliance industry as well as a fully automated bonding solution for exterior car parts at Fakuma 2018 from October 16 - 20 in Friedrichshafen, Germany – Hall B2, Booth B2-2203.**

## **Integrated production systems for sealing, casting, and bonding of household appliance products**

Highest quality, high volumes, ultra-fast station times: Manufacturers of household appliances (white goods) depend on fully automated production processes with maximum effectiveness and speed.

To meet these requirements, RAMPF Production Systems develops and produces both the mixing and dispensing technology as well as project-specific automation concepts for sealing, casting, and bonding of various products and components in the household appliance sector:

- > bonding and assembling of ceramic cooktops, oven doors, and control panels
- > bonding of microwave doors and steam iron soles
- > sealing of control panels for tumble dryers, washing machines and dishwashers, dishwasher tubs, back panels of washing machines, refrigerators, and freezers
- > foam molding of HEPA filters for vacuum cleaners
- > casting of inductive chargers for toothbrushes



RAMPF's integrated production systems for sealing, casting, and bonding of household appliance products guarantee for high volumes and ultra-fast station times.

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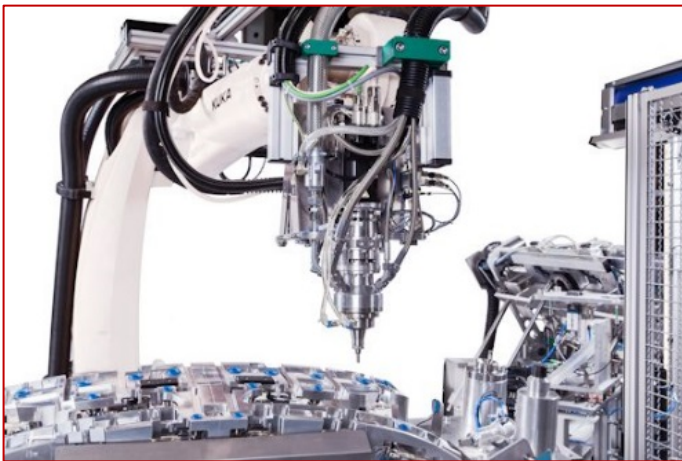
### Fully automated bonding solution for exterior car parts

RAMPF Production Systems has developed a holistic production cell concept for the bonding of external car parts such as side panels, rear spoilers, tailgates, and wind blades. At the heart of the intricate production unit lies the RAMPF dispensing system C-DS. The compact system guarantees for the precise application of the 2-component polyurethane adhesives that bond the parts.

The C-DS encompasses a material conditioning, metering, and mixing unit, PLC controls, and integrated process monitoring. The modular design of the dispensing system offers a high degree of flexibility as metering pumps and mixing system can be easily integrated into existing handling units.

Before the adhesive is applied, a quality control system following the Poka Yoke principle verifies that a manual pre-cleaning of the inserted parts has taken place. For this purpose, cleaning sensors are used.

The production cell can be equipped with FANUC, KUKA, and ABB robots. Conveyor tracking systems enable the robots to identify, pick, and place items on a moving conveyor belt. Depending on the requirements of the bonded part, several robots can be integrated. Plasma surface activation is integrated for optimum surface adhesion properties; COD is integrated for the rapid curing of the bonded parts.



The fully automated cell for PU bonding exterior car parts developed by RAMPF Production Systems maximizes the speed, precision, and flexibility of production processes.

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[www.rampf-gruppe.de/en/](http://www.rampf-gruppe.de/en/)



**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 o. R., 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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