

Compact dispensing cell DC-CNC800 combines flexibility and dynamics

Bondexpo 2018: RAMPF Production Systems presents dispensing system and comprehensive solution for the optical bonding of displays

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Zimmern o. R., September 24, 2018. Compact, flexible, high-performance – and live in action at Bondexpo 2018: RAMPF Production Systems is presenting its compact dispensing cell DC-CNC800 in Stuttgart from October 8 - 11 in hall 6 / booth 6404.

Featuring an integrated material preparation system, the DC-CNC800 can be fitted with piston or gear pumps. For modular control, a CNC Siemens Sinumerik control system and Beckhoff control technology are available. A further advantage: integrated process control for continuous monitoring of pressure, fill level, and speed.

The DC-CNC800 can be optionally equipped with a high-pressure rinse agent recycling and water-rinsing system, numerous other automated equipment components, and the MS-C mixing system for dispensing rates of 0.1 g/sec and higher.

Further features: standardized operating concepts for sliding tables, rotary index plates, and conveyor feeds as well as the integration of vacuum barrel presses. Large tanks enable small containers to be fully filled in a single step, and access for maintenance work on the piston and gear pumps as well as controls is easy.

Visitors to Bondexpo can see the DC-CNC800 in action at the RAMPF booth, where the system will process a casting application.



The DC-CNC800 dispensing cell from RAMPF Production Systems is the perfect solution for users requiring compact machine construction without compromising on control technology.

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Optical Bonding – Vacuum application for best results

At Bondexpo 2018, RAMPF Production System is also presenting its fully automated joining method for the bubble-free application of bonding materials for displays in the automotive, mobile devices, GPS, industrial monitors, navigation, and wearables markets.

In the Optical Bonding process, the display and touch glass/cover glass are placed on top of each other. The air in between is excluded with the help of an extremely clear bonding compound. This avoids parallax errors, which are caused by the different refractive indices of air and glass and affect the viewer by blurring and an impaired side visibility. Since the bonding compound has approximately the same refractive index as glass, the result is a significantly sharper image and much improved side visibility.

The bonding material is applied in a vacuum and the components are joined in an airless environment. The thin-film degassing technology of the single components makes it possible to process highly degassed bonding material. This minimizes the risk of air bubbles being trapped during the joining and curing processes.

The bonding material is dispensed by the RAMPF DC-VAC Vacuum Dispensing System. Designed for processing one- and two-component casting materials, the cell is equipped with material conditioning under vacuum and the dynamic mixing system MS-C. The DC-VAC combines C-DS gluing units, assembly units, robot systems, conveyor systems, and process control systems to a fully automated, customized production system.

In addition to the display joining method in a vacuum, RAMPF's fully automated production system also features all the operations for handling, aligning, and bonding the displays to frames as well as final quality control.



RAMPF's DC-VAC Vacuum Dispensing System guarantees for the ultra-precise and fast processing of one- and two-component casting materials.

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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 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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