

Maximum flexibility for dynamic bonding

Live at Bondexpo – taking place from 6 – 9 October 2014 in Stuttgart, Germany – Rampf Production Systems will showcase its DR-CNC dispensing robot processing the fast-curing soft integral foam Raku-PUR Speed at stand 7501 in hall 7.

[image_0]

According to **Rampf Production Systems**, its **DR-CNC** dispensing robot is an ideal solution for complex bonding, sealing, foaming, and casting requirements. With its separate material conditioning unit, the dispensing robot is said to offer maximum flexibility for dynamic bonding, sealing, and casting. Variable X-Y-Z strokes also enable three-dimensional material application.

Up-to-the-minute **Sinumerik 840D Solution Line** control technology with **OP08** operating panel means the DR-CNC combines the mixing and dispensing system with maintenance-free CNC linear axes. The result is flawless interplay between the dispensing process and axis motion sequences, says the company.

[image_1_right]

Flexible automation solutions are also possible – from manual through to automatic part loading. In addition, the modular control architecture allows for complete and effortless integration into production systems. Recipe management makes programming for different part types both simple and flexible, says Rampf. Precision gear pumps near to the mixing system, servo-driven gear pumps for up to four components, and short hoses to the mixing system all unite to deliver high levels of dispensing accuracy. A dual mixing system and rapid dispensing speeds enhance the productivity of the production process.

Additional fit-out options for the DR-CNC include:

- High-pressure rinse recycling system or high-pressure water rinsing system
- Nucleation controller for air load controls
- Material recirculation system and temperature controller
- Automatic thin-film degassing for bubble-free casting
- Various types of automation equipment available (rotary index tables, shuttle tables, conveyor lines, customised automation)
- Individual process monitoring and visualisation
- 12" colour display, process data collection, interfacing to customers' PPS
- Gantry axis for bigger work area
- Up to five material components
- Teachpendant HT8

At Bondexpo 2014, the dispensing robot will process the fast-curing soft integral foam **Raku-PUR Speed** from **Rampf Polymer Solutions**. Once the foam has been applied, the component is suitable for immediate further processing without the need to invest in curing equipment. According to the company, the costly storage in curing ovens or storage systems is a thing of the past – ambient temperature is sufficient to cure the sealing material. Raku-PUR Speed, which won first place in the inaugural Rampf Innovation Award, is ideal for use in all technologies that require short cycle times.

Adresse:

<http://www.gupta-verlag.com/general/news/technology/14844/maximum-flexibility-for-dynamic-bonding>