

Press release

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Automating small production volumes cost-efficiently

From the injection-molding machine straight to ultrasonic welding: a space-saving robot solution combines several production steps in one flow: at Fakuma, Herrmann Ultraschall will be exhibiting a modular automation cell – in cooperation with Arburg and robomotion, toy spinning tops will be produced live inline at the Herrmann show booth.

Due to the cell's flexibility, a variety of products, small batch sizes and short life cycles can be automated. As a result, non-value-adding processes, in particular, such as transport, storage, and repeated sorting and supplying are eliminated, and production times are thus shortened. This means that the investment is economical even for a small company.

Due to its space-saving design and the possibility of moving the robot cell on air sleds, the flexobot cell from robomotion can be quickly and simply deployed to different injection-molding machines. Different applications can be realized using changeable plug-in units. The 6-axis robot is versatile in use, from simple removal to complex assembly tasks, which finish up the components immediately after the injection-molding process.

“Automated ultrasonic welding supported by robots increases the advantages of our technology: speed and reproducibility”, says Product Manager Volker Aust, who is responsible for the show exhibit together with Dr. Andreas Wolf from robomotion. “We have successfully carried out the first projects with robomotion”.

Herrmann Ultraschall will present in Friedrichshafen the many and varied possible applications of ultrasonic welding technology under the slogan “We are all about ultrasonics”. From the classic welding of two injection-molded parts, to the sealing of a membrane, to an application that demonstrates the cutting-out and seaming of a velour material. The product portfolio is demonstrated live at more than 12 exhibits. On display again: the successful mobile ultrasonic laboratory. Here, visitors will be able to experience project management live.

Image: modular robot cell with integrated ultrasonic welding system

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