

Press Release

For Immediate Release

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Stäubli Robotics to Present Live Robotic Food Handling Applications at PROCESS EXPO 2023

Specialized food processing robots will clean, cut and package meat products, demonstrating optimum hygiene, safety and efficiency

Duncan, South Carolina, September 25, 2023 — PROCESS EXPO, the global food equipment and technology show, offers a window into the latest innovations in food processing and packaging. Live production lines are always a highlight. Stäubli Robotics will feature industry-leading robots specialized for use in food production with live demonstrations at Booth 2918, South Hall during the October 23-25 event at Chicago's McCormick Place.

Stäubli is a leader in robots for sensitive environments. In the food industry, it sets the standard for robot-based automation with its food-grade HE (humid environment) robots. These robots are capable of withstanding regular washdowns and control contamination with hygienic design features such as retention-free, fully encapsulated, detergent- and corrosion-resistant surfaces.

At PROCESS EXPO, Stäubli will present two demonstrations of production lines for protein processing and packaging, showcasing its TS2-60 HE and TX2-90 HE six-axis robots. These models are part of its comprehensive portfolio of HE robots ideal for meat processing tasks such as cutting, deboning, portioning, and handling of frozen food boxes and unpackaged products.

The TS2-60 HE will perform a chicken breast handling and thermoform packaging operation. It is quick and precise as it identifies and aligns randomly placed products on a high-speed conveyor, easily picking up the floppy pieces and placing them into their packages neatly and uniformly.

The larger TX2-90 HE will display its flexibility in handling and cutting meat as well as cleaning both the products and itself. The robot starts by cleaning its own tooling. It then moves to a chicken breast, picks up its cutting tool, and simulates waterjet cutting in precise rows on the raw product. Quickly rotating to a third station, it picks up a burger, places it onto a conveyor, and washes the product. After each cycle, it returns to a self-cleaning station to clean its tools, having proven its ability to handle different products in the same process, which saves valuable production space.

All robots in Stäubli's HE series are designed for hygienic and humid environments and suitable for a wide range of primary and secondary processing and packaging applications. Features include:

- Fully enclosed and pressurized structure prevents microorganism penetration and condensation
- Smooth, rounded and tilted surfaces prohibit liquid retention
- Fully compatible with NSF H1 food-grade lubricant without loss of performance
- Protected against pressure jets of water (IP65) and immersion (IP67)

- Crucial components in stainless steel with special coating for extreme conditions
- No external cables: all connections run through the arm and base
- Unique, cylindrical envelope and small footprint
- Patented Stäubli proprietary JCS gearbox for accuracy, repeatability and durability

Stäubli's HE series ranges in size and format (4- and 6-axis), and in payload from 1kg to 150kg. All have the flexibility of multiple mounting options, allowing easy integration into production lines.

About Stäubli North America

Stäubli North America has more than 200 employees supporting Connectors, Robotics and Textiles customers. The company's North American headquarters is in Duncan, South Carolina. Stäubli provides customer support through its locations in Duncan, Queretaro, Mexico, and the newest Stäubli North American facility, which opened in 2018 in Novi, Michigan. In addition to 24/7 customer support, each of these facilities offers training and has dedicated on-site technical experts who can be deployed whenever needed. Stäubli's North American sales force is located strategically on the West and East coasts, and also serves Canada and Puerto Rico.

Worldwide, Stäubli is a leading manufacturer of quick release couplings, robotics systems and textile machinery. With a workforce of more than 5,500 employees, Stäubli is present in 29 countries supported by a comprehensive distribution network in 50 countries worldwide.

About Stäubli Robotics

Stäubli Robotics is a leading player in robotics around the world, consistently delivering engineering as effective and reliable as our service and support. Stäubli offers a complete range of 4-axis and 6-axis robotic systems, collaborative and mobile robotics as well as software to meet the most exacting demands of the market internationally. Stäubli robots combine speed, performance and safety. staubli.com/robotics

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