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on the

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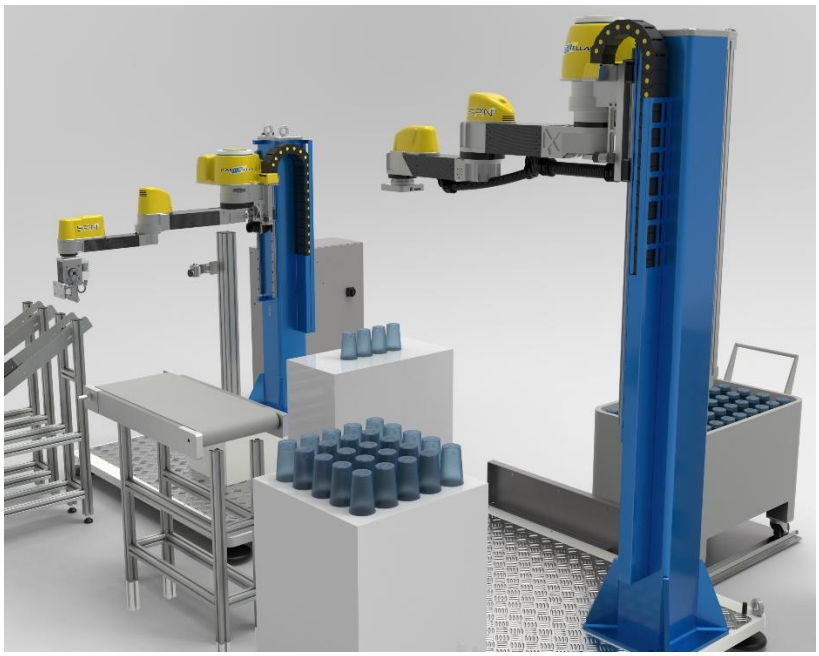
Hall A7 - Stand A7-7209

Press Release

More efficiency and safety in boxing with high-speed robot solutions



As an example of automated boxing, a constructing with two SCARA SPIN robots from Campetella with low space and cycle time requirements shows the automated taking out, stacking and boxing of cups with different labels.
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Montecassiano/Italy, September 2024 - At Fakuma 2024, Campetella Robotic Center s.r.l. will be placing the service of its latest-generation SCARA SPIN robots at the centre of its presentation on stand A7-7209. The compact and space-saving construction design is perfect for boxing, assembly and palletizing tasks. The focus is on the high savings potential and the resulting possible short payback period of fully automated processes, which are considerably faster and safer than partially or non-automated solutions and require a minimum number of operators. Campetella will be demonstrating the precision and reliability of its SCARA SPIN robots using a demonstration constructing for vertical boxing in containers. A version of the higher SPIN 3 type will take out 400 ml containers, which are provided in two options with different artworks, from a box and place them on a conveyor belt. A smaller SCARA of the SPIN 2 will then sort these, with a vision system taking over the quality control. Finally, the higher robot will stack the sorted containers separately.

And there's more! During specific times of the day, some cups will be picked by the bigger SCARA, placed on the conveyor belt and distributed through an opening within the safety guards to visitors as handouts.

Robots from Campetella will also be in order at the stands of partner companies. At Toyo Europe, stand A5-5208, a GS2 X-Series robot will demonstrate the high-speed take-out of fruit crates from a mould from SCS, Pontoglio (BS)/Italy. At KT-Sakkas, stand B1-1218, a robot from the new CAMPETELLA CX0 X-Series will take out parts from an all-electric injection moulding machine from JSW, mark them with a laser and place them in a crate changer.

Elia Campetella, CEO of CAMPETELLA, reports: "To meet the growing demand for automated packaging into a cardboard box or palletized container, CAMPETELLA has developed different standard solutions that are quoted at a perfect price-performance ratio with short delivery times. While many manufacturers are still using manual boxing, higher companies are investing in the introduction of complex and versatile automated packaging solutions. We suppose that efficiency and cost pressures will drive significant growth in auto-boxing. Our energy-efficient palletizing and packaging solutions reduce labour costs, enabling improved operational efficiency and a quick return on investment. They also reduce the number of operators and therefore the potential for errors. The sensitive food, medical and pharmaceutical industries in particular can use automated boxing to ensure that the results meet strict regulatory requirements. This is critical for product safety and compliance."

Fast and flexible with little footprint

Main applications of SCARA (Selective Compliance Assembly Robot Arm) industrial robots with their three servo axes and one linear axis for vertical movements for fast pick-and-place applications and palletizing. With their very robust vertical column and rotary axes made of super-light carbon fibre, Campetella's X-Series SCARA SPIN robots are designed for maximum performance. Depending on the type, they enable ways of up to 3,000 mm to be manipulated vertically with payloads of up to 50 kg. Thanks to their very high achievable travel speeds, they can also be used for particularly short cycle times and for the simultaneous management of separate production lines. Further application advantages result from their minimal footprint and service directly next to the injection moulding machine. Assembly tasks can also be carried out precisely.

High-tech materials and technologies are used for all three SCARA SPIN models from Campetella, including carbon fibre axes and parts from additive manufacturing. These enable a low dead weight with high performance and low energy consumption.

The SCARA SPIN robot from Campetella is an industrial robot with kinematics similar to the human arm. It is characterised by 3 axes of rotation - shoulder, elbow, wrist - and a linear axis for vertical movements. A robot with high skills that will normally be used in fast pick & place applications and palletizing. The strength of the Campetella's SCARA SPIN lies in the special constructing of the vertical axis up to 3,000 mm and a payload of up to 50 kg. This feature makes it an important, often superior alternative to the 6-axis robot, with a minimal footprint.

High-speed Cartesian robots for extreme performance

The Gun Shot is a high-speed robot for extreme performance?
At Toyo Europe's exhibition stand A5-5208, Campetella's best-selling GS2 X-Series, known for its record-breaking speeds and accelerations, will be handling the high-speed take-out of fruit crates from a mould from mould manufacturer SCS. The service of high-performance motors in combination with aerospace materials enables minimum cycle times of 2.5 - 6 s

with a payload of 2.5 - 8 kg, specified for injection moulding machines up to 400 tonnes clamping force.

Campetella's Cartesian robots will also be working with the ultra-compact CX0 PRIME series robot on an all-electric injection moulding machine from JSW at KT-Sakkas, stand B1-1218. Specified for clamping forces of 50 - 130 tonnes, this robot series is a synthesis of functionality and accuracy, high performance and maximum price-performance ratio. A clamp is produced, which is marked in 2 colours by a laser from beLaser and afterwards placed in a KLT in the exact quantity required. The filled KLTs will be transferred to a crate changer, which ensures fully automatic production for an entire shift.

Regional sales and after-sales service

Elia Campetella: "All our customers receive comprehensive support from us in the design, realization and start-up of their individual automation solution. Our local presence throughout the DACH region ensures short ways for consulting and after-sales service for our German, Austrian and Swiss customers.

Campetella Robotic Centre s.r.l. was founded in 1897 under the management of the Campetella family at its headquarters in Montecassiano (MC) in Italy and is active in the field of industrial automation. Today, more than 250 employees work worldwide on how to make production processes faster, more flexible and more reliable. Campetella has specialized in the manufacture and service of industrial robots and systems for the automation of injection moulding of plastic parts for the boxing, household appliance, medical and pharmaceutical industries.

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