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Campetella Robotic Center at K 2022

Campetella Robotic Center: a new concept of automation

Montecassiano, Italia – September 2022

From 19 to 26 October Campetella Robotic Center welcomes you at K 2022, Booth 12 C-13, Hall 12, to guide you through their most advanced automation, result of a sustainable innovation based on their customer's real needs.

A new concept of automation the one proposed by Campetella Robotic Center, renowned Italian designer and producer of industrial robots and complex automations for the plastics injection molding industry, this year celebrating its 125th anniversary.

Founded in 1897, Campetella proudly traces its success back to the passion that has always guided them and which, nurtured over time throughout five generations, now distinguishes the company throughout the world.

"An international company with a family character". This is how they describe themselves. Sure enough, their team is their true asset. A staff both heterogeneous and cohesive in sharing a corporate culture that has always been oriented towards a constant search for technological innovation, capable of satisfying the most complex and demanding production needs, from palletizing to in-mold labeling.

Campetella offers a wide range of high-performance top-entry and side-entry robots. Its robots stand for their extreme precision, speed and reliability. These are key features in the food packaging world, a crucial industry to Campetella that, at K 2022, will exhibit the most innovative integration of IML technology and stack-molding automation for this application field.

A technology that makes it possible to satisfy the most complex market needs, as it doubles production while making it increasingly sustainable and reducing costs.

Sustainability is at the base of the Campetella corporate culture. How do they achieve it? A significant reduction in energy consumption is certainly a winning strategy.

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The dynamic vacuum management system designed by Campetella, aims at reducing compressed air consumption up to 60%, if compared to traditional gripping systems. The compressed air required to generate the vacuum is switched on and off dynamically and automatically, in order for the vacuum to be generated only when the product is picked up, before being switched off until a minimum threshold is reached.

KERS Technology is also applied by Campetella to achieve power saving. The particular architecture of the mutually connected drives allows for the recovery of the braking axles' kinetic energy, which is therefore available for the axles in motion.

Finally, through the Jog Over, Campetella optimizes robot cycles by reducing the IMM' speed and consumption without any impact on the overall cycle time.

Stack-molding automation systems offer unquestionable advantages in high-productivity sectors as they optimize the company's costs while respecting the environment. The press tonnage is almost halved compared to traditional systems. This helps to considerably lower energy consumption and the relative CO2 emissions into the atmosphere, reducing their impact on global warming. Green economy is now a challenge we need to face and, in order to do it, we need to provide ourselves with highly efficient and sustainable production systems.

More productivity in less space. This is the greatest benefit brought by the synchronized production of both containers and lids achievable thanks to the new Campetella automation systems.

Both at the Campetella and Demag's booths, visitors will have the opportunity to check out the new Modula W X-Series, core of a fully automated system managing the IML production of margarine tubs. Born to fit IMMs up to 4.500 kN clamping force, this high-speed side-entry robot boasts a peculiar and innovative "W" structure that allows it to operate on a 2-level stack mold, which is also specifically designed to double productivity. The Campetella product development team has been focusing on the shared ever-growing need to increase the production systems' efficiency in the food-packaging industry.

Minimizing footprint on the ground while maximizing productivity. This is what Campetella was able to achieve by creating this new Modula. Its main transversal axis, located on the upper side of the robot, makes it possible for the discharge conveyor belt to be placed at the bottom, thus ensuring a significant space optimization.

Once extracted from a 4 + 4 cavity mold, the tubs are picked by a SPIN and stacked with the opening facing downwards in order to ensure maximum hygiene. The robot is equipped with vertical feeders for 5-sided labels, featured by efficient servomotors and designed to exploit the space in the vertical direction. Its carbon fiber arms reduce vibrations, thus ensuring

excellent label positioning, while an integrated vision inspection system safeguards the perfect quality of the stacked tubs.

At the Krauss-Maffei booth Campetella will show off its SPIN, in charge of assembling and palletizing foldable fruit and vegetable plastic crates. Powerful and sturdy, this SCARA (Selective Compliance Assembly Robot Arm) is an industrial robot famous for replicating the human arm motion. Equipped with three rotary axes (shoulder, elbow, wrist) and a linear axis for vertical movements, its high dexterity makes it ideal for fast palletizing and pick & place operations.

Its strength lies in the peculiar architecture of the vertical axis. The Z-axis movement is possible thanks to the sliding of the entire arm along the robust supporting column of the robot, which allows a vertical stroke of over 3 meters with payload up to 50 kg. This feature makes it a valid and – in many ways superior - alternative to industrial robots as far as palletizing operations are concerned, especially in terms of both footprint and easy programming.

Last but not least, Toyo will host the Campetella best-seller GS2 X-Series, renowned all over the world for its quick and sharp movements. An uncompromising model for ultra-fast take-out applications, specifically designed for the food-packaging industry. Ultra-performing servo-motors combined with innovative construction technologies and materials typical of the aerospace industry, such as carbon fiber and light alloys, ensure record-breaking acceleration and speed, for operating cycle times up to 2.5 seconds. Designed to fit medium-sized tonnage IMMs, it boasts highly optimized structures gained through the most advanced Finite Element Method (FEM) techniques, resulting in low vibrations for the highest reliability.

The GS2 X-Series is now available also in the new GS2W and GS3W models, recently launched by Campetella to perform stack-molding applications. Entirely made of carbon fiber, from the double vertical axis to the two-profile extraction beam, besides being extremely elegant, they stand out for their side-entry performance in a top-entry size, in terms of both costs and footprint on the ground.

The EVO control unit was expressly designed by Campetella to manage all robots with a unique common system that simplifies the operators' training as they need to learn one programming language only. Furthermore, the shared robotic platform among all Campetella products optimizes the management of components and spare parts while enabling efficient customer service.

The Campetella products have always stood out for their elegance and lightweight design. This ranges from carbon fibre to additive manufacturing of hundreds of components created overnight in a much cleaner and faster process than traditional CNC production. When 3D printed in PA12 (Polyamide 12), such parts are much lighter than metal equivalents, thus enabling robots to work faster and vibration-free. Wherever possible, Campetella is replacing

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pneumatic actuators in favor of servo-electric drives by Kollmorgen, the worldwide leader for the production of servomotors. By doing so, Campetella aims at reducing CO2 emissions while increasing reliability and efficiency.

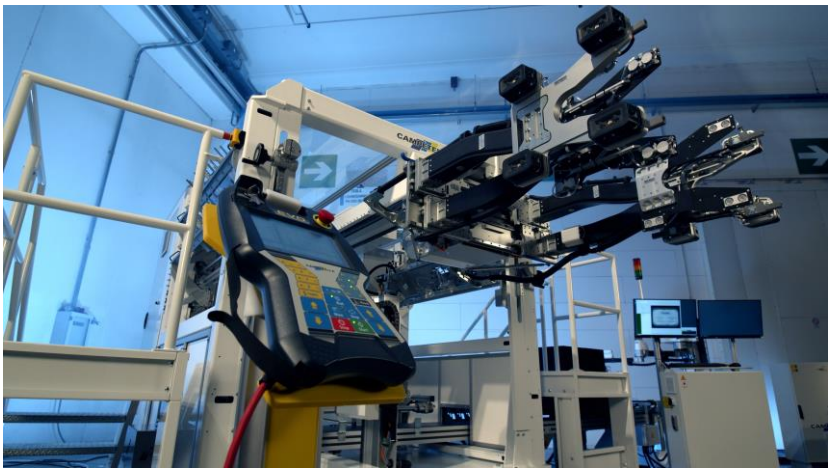
The company also has a long historical experience in coiling machinery for 25-50 mm diameter extruded irrigation pipes and water hoses, a field that has recently shown an explosive growth in all industrialized countries worldwide. Although coilers belong to the extrusion world, the downstream automation and the related know-how are the same, making it easier to create modular systems to be used for a number of different industries.

With a wide range of All-In-One robotic solutions designed to meet the most demanding production needs, and a global partner network currently widespread across 32 countries and ever-expanding, Campetella provides its customers with a complete package of services, from design to after-sales assistance, guiding them through each step of their automation process with passion and expertise.

Campetella Robotic Center at K 2022: Booth 12 C-13, Hall 12



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The new stack mold Side-Entry robot Modula W X-Series, designed to ensure maximum productivity and precision in stack-molding applications.



The ultra-fast and compact GS2 X-Series top-entry designed for the most extreme performance.

Campetella Robotic Center Srl l 62010, Montecassiano l Tel: (+39) 0733 29891 l Fax: (+39) 0733 298912 l info@campetella.it l www.campetella.com/en

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Campetella Robotic Center Srl

Campetella Robotic Center is “an international company with a family character”, lying in the great attention it always pays to the needs and requirements of its customers. A company structure capable of guaranteeing and maintaining over time the highest quality standards of both products and services, also documented by the ISO: 9001 and ISO: 14001 certifications.

Pioneers in the field of industrial automation; experts in the design, production and implementation of advanced robotic solutions for plastic injection molding industries. Our mission is to build strong and solid partnerships to guide and support each customer with honesty, full transparency and innovative proposals throughout the automation of its production process.

Passion and expertise always at your service.

Contact for journalists and readers:

Via Grazia Deledda, 40/42 – Z.I. Villa Mattei

62010, Montecassiano (MC), Italy

Tel.: (+39) 0733 29891

Fax: (+39) 0733 298912

www.campetella.com/en

info@campetella.it