

SCM's "Smart&Human Factory" is here

The Open House event of the world leader in the field of secondary woodworking technologies to be held in Rimini January 31 – February 2, 2019. The spotlight will be on highly flexible and modular automation systems and man-robot interaction systems

A cutting-edge production model, with digital and automation systems capable of ensuring advanced man-machine interaction and full control over the entire production flow.

Automation through integrated robotics will be the focus of the "**Smart&Human Factory**" event to be held from January 31 to February 2019 in the Technology Center at SCM headquarters in Rimini. The leading producer of secondary woodworking machinery will host an exclusive presentation of its new systems - flexible, modular and easily reconfigurable, designed to provide an increasingly effective, quick response to the challenges of *mass customization*.

HUMANS AND ROBOTS, TOGETHER

The Open House summarizes the goal of the new SCM product range: to supply the most "user-friendly" automation technology which, besides considerably streamlining the factory layout by making it more efficient, also creates a new model of interaction among humans, robots and machines with an open, safe cells design. All of this with the option to reconfigure the production process whenever this is necessary to quickly process increasingly smaller "*order to production*" batches.

A new "**smart and human**" factory making progress in terms of work flow where risky and repetitive human tasks are minimized and operators are able to focus on higher added value tasks.

SCM offers its customers a wide range of solutions:

- **Flexible cells served by industrial anthropomorphic robots** for repetitive and low added value tasks. An ideal solution for sawblade cutting or sawing, milling, drilling and edgbanding or for workpiece sequence rearranging between one process phase and the next.
- **Collaborative Islands**, in which humans and collaborative robots (cobots) work side by side, sharing the available work space safely without the need for enclosures or similar systems. The cobots are used in the final process stages such as assembly, hardware insertion, glue dispensing and surface finishing.
- **Flexible interconnections of machining cells and assembly islands through AMR - Autonomous Mobile Robots** for *just in time* and *just in sequence* management and optimization of all process logistics flows. A leap forward compared to the traditional self-driving vehicles of the past. In this case, no artificial references such as tapes or reflectors are needed because the AMRs are able to autonomously orient themselves in space by identifying the surrounding environment and selecting the most efficient route to their destination while safely avoiding obstacles, including human ones. This enhances returns on investment and route reconfiguration flexibility that are in line with process modularity requirements, in addition to streamlining maintenance tasks.
- **Master Watch Supervision software** to manage and monitor the state of each product being machined throughout the process. Panel cutting, edgbanding and drilling phases are thus optimized to obtain the same results as in standard production processes. Orders are then put back together at the end of the process, delaying customization until this

stage. This avoids huge quantities of logistically scattered items and helps minimize waste and rejects.

- **IoT:** the innovative "**Maestro connect**" platform elevates the concept of the "*Internet of Things*" potential. A data collection and analysis system based on SCM technologies, it ensures, on the one hand, full control over the production flow and, on the other, the implementation of smart and predictive maintenance models. Among the advantages granted by the system are: increased productivity and decreased downtime; improved and continuous operating cost control; lower maintenance costs and the ability to monitor machine parameters and performance in real time, anywhere and at any time, so as to be able to always correct any malfunction in an increasingly timely manner (*smart maintenance*).

"Our SCM Open House," **explains the SCM Division Director Luigi De Vito**, "will be a chance to experience a new model of interaction between machines and industrial and collaborative robotics, ground-level logistic handling and software. Ours is a cutting-edge proposal, designed to solve all the critical issues arising from mass customization as well as to effectively ensure operator workflow progress. SCM will showcase the achievement of new frontiers in automation, without forgetting the human factor, as indicated by the title 'Smart & Human Factory'. Our strength is being not just a supplier, but a partner who is ready to support our customers in their business."

Our **flexible and reconfigurable systems** and **Supervision Software** are designed to revolutionize the entire production system, optimizing the resources used and reducing waste, rejects and retooling requirements during product changeovers. Moreover, plant shuttles allow for the most efficient management of all the process-related logistic flows, eliminating low added value tasks required from the human staff, such as the need to recover all the pieces scattered throughout the factory. The introduction of robotic automation also reduces human personnel requirements, in addition to greatly simplifying the work required from operators and relieving them of dangerous activities.

This SCM event will also be an opportunity to present the new Nesting CNC machining centers - designed to combine high productivity and maximum versatility in shaped panel cutting.

With a turnover of 700 million euro, and with a double-digit growth rate in the last year, **SCM Group** is a world leader in technologies for the processing of a wide range of materials: wood, plastic, glass, stone, metal, and composite materials, as well as industrial components. The Group companies, operating throughout the world, are reliable partners of leading companies in various market sectors, including the furniture, construction, automotive, aerospace, ship-building and plastic processing industries. SCM Group coordinates, supports and develops a system of industrial excellence in 3 large, highly specialised production centers employing more than 3,600 workers and operating in all five continents.

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