

SCM at Ligna 2019 with its "Smart&Human Factory"

At the Hannover event, a cutting-edge production model with highly flexible and modular automation and man-robot interaction systems

Hannover, 5 February 2019 - SCM, the world leader in the field of secondary woodworking technologies, is gearing up for the next edition of **Ligna (Hannover, 27-31 May 2019)**, having achieved a double-digit growth rate in the last two years which propelled the group over the 700 million turnover target at the end of 2018, with a technological range of products increasingly in line with Industry 4.0 requirements.

After launching its "Lean Cell 4.0" for highly automated industrial production two years ago, from this same Hannover event, SCM now goes further with its breakthrough concept of *Smart Manufacturing*. From its over 4,000 square metres' booth in **Hall 13**, the Italian woodworking giant will present its "**Smart&Human Factory**": a cutting-edge production model based on digital and automation systems and allowing for advanced man-machine interaction and 360-degree control over the entire production flow. A model based on highly innovative, flexible, modular and easily reconfigurable systems, designed to respond in an increasingly effective and fast way to the challenges of *mass customisation*. A new "**smart and human**" factory - also making progress in terms of work flow: thanks to the integration of robotics, low-added value and repetitive human tasks are now minimised.

"Ligna 2019 will be one of the key international events for SCM - traditionally a historic and reliable partner for the entire woodworking industry", **explains the SCM Division Director, Luigi De Vito**. We will showcase top-level technological innovation, designed to support more and more companies in their business and help them meet new Industry 4.0 requirements. The current, new production trends, which will be the focus of the next edition of Ligna, are expected to widen the gap between more and less intensively automated companies. By offering a new model of interaction between machines and industrial and collaborative robotics, ground-level logistic handling and software, SCM will have as its mission to help partner companies work toward achievable, successful and smart goals."

"YOU WILL NEVER WORK ALONE"

The claim "You will never work alone" effectively summarises the goal of the new SCM product range: to supply a "user-friendly" wood panel processing automation system, with the option to reconfigure the production process whenever this is necessary, to quickly process increasingly smaller "*order to production*" batches.

After previewing a working application of its "Smart&Human Factory" at the Open House 2019 event on 31 January 31 through to 2 February, which drew crowds to the company's Technology Center of Rimini (Italy), SCM will showcase an even richer version at the next **Ligna**. An **automated system for all the phases of furniture production** will be presented: from furniture designing to the generation of machine programs and from panel processing to cabinet assembling.

The process aims at optimising as much as possible panel cutting, edgebanding and drilling operations, so as to reduce waste, rejects and retooling requirements during product changeovers, to then reassemble orders back together at the end of the process and delaying customisation until this stage.

With this system, low-added value and repetitive human tasks are minimised, thanks to the use of **KUKA** industrial anthropomorphic robots, assisted by collaborative **Universal Robots** in the final process stages (assembly, hardware insertion, glue dispensing and surface finishing) and ensuring totally safe conditions without the use of enclosures. Finally, process logistics are made flexible thanks to the use of **MiR** intelligent autonomous self-driving shuttles. The entire process will be managed and supervised by the **Maestro Watch** supervision software - monitoring the state of each of the products being machined throughout the process, and by the IoT **Maestro Connect** system - which collects and analyses SCM technology data, ensuring on the one hand full control over the production flow and, on the other, the implementation of smart predictive maintenance models.

NEWS FROM THE "DIGITAL" FRONTIER

At Ligna 2019, SCM will add to its digital range, by combining digital technologies with high added value, specifically targeted **services**. The **Digital Hub**, the innovation control centre at the core of the exhibition booth, will display all the latest products.

To meet the needs of 4.0 industrial production, the "**Maestro Connect**" IoT platform will be extended to new technologies applied to the wide range of SCM machining options (cutting, edgebanding, boring, milling, nesting-milling and edge machining) for both panels and solid wood. In addition, the system features are enhanced by **sensor kits** able to detect all the changes in machine components. Thanks to this advanced system for SCM machine data collection and analysis, every customer company can benefit not only from digital technologies but also from services such as full production flow control, smart and predictive maintenance and effective spare part strategy planning.

The new "upgrades" for **Maestro Suite** software are also showcased. In addition to the latest version of the supervision software for our **Maestro Watch** integrated cell systems, the **Maestro CNC 2019** version will be released with major updates for CNC machining centres and drilling machines. User-friendly, intuitive software, which, most importantly, can be **integrated** and interfaced with other systems used by customers.

A ONE-STOP PARTNER FOR SURFACE TECHNOLOGIES

SCM is the first company in the industry to have integrated finishing with its own technologies to complete the entire surface technologies process; for years, it has made available to its customers its decade-long industry-specific paint finishing and sanding experience at its Superfici Technology Centre in Villasanta (Monza) and Surface Tech Lab in Villa Verucchio (Rimini).

Having acquired a wealth of industry-specific know-how, at Ligna the Italian company will present its wide range of **sanding, membrane pressing and finishing technologies**, standing out as a unique partner on the surface treatment scene, able to offer a complete range of products and services and exclusive, sophisticated finishing solutions, to meet any process and end product requirements. The latest industry designs will be introduced by SCM experts in Hall 16, at the Superfici booth, to complete the overview of "surface technology" solutions presented at the SCM booth, in Hall 13.

FULL SCM TECHNOLOGY FOR CUSTOMISED AND INTEGRATED PRODUCTION

With its unique, extensive product range able to meet any industry requirements internationally and cater to any partner, from small-sized companies to the largest organisations, SCM will also present interesting new solutions also for secondary woodworking technologies: from machining centres for panel boring to machining centres for the solid wood and timber construction industry, from edge banders and sizing edge banders to beam saws, from assembly and packaging to pressing, from specific solutions for doors and windows to squaring-tenoning and profiling, and last but not least, the widest and most sought-after collection of joinery machines for small-sized carpentry businesses.

With a turnover of over 700 million euro, 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 centres employing more 4,000 workers and operating in all five continents.

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