

SCM Group at Ligna 2017: Solid and growing Group Great confidence in the future of the entire industry

Ligna Preview, Hanover
14 February 2017

Hanover, 14 February - Boasting a double-digit growth over the last two years and fast-selling new models, **SCM Group** participates in **Ligna 2017** as a solid Group that has great confidence in the future of the entire industry.

And as a world industry leader, **SCM Group** is getting ready for the event knowing full well that – thanks to the high technological level it has reached – it is more than able to offer its clients applicable "**Industry 4.0**" solutions. Practical solutions made possible by an ever growing data collection and analysis, to facilitate greater control over production quality and quantity, from technological and IT development of individual machines to improving their ability to operate in cells and cell systems.

Specifically, at **Ligna 2017**, on its enormous **stand in Hall 13**, the Group will display a **cell system** combined with robot, able to provide a concrete implementation of the "**mass customisation**" concept, all in order to *meet all customer-specific needs, while maintaining the advantages of industrial production.*

In terms of software and user interfaces, SCM Group is to present at **Ligna 2017** some outstanding new solutions, starting from an **interface with an innovative and stunning "multi-touch" system, with a 21-inch display and a new graphic look** which makes preparation work, production control and diversification easy and safe for operators.

And regarding software specifically, SCM Group has completed a **major "upgrade" of its Maestro suite**. Excellent results have been achieved with beam saws using the new **system optimiser**, allowing an 80% reduction in computation time and 40-50% reduction in waste. **The Watch system supervisor** will demonstrate its great capabilities running by itself the cell system on view at Ligna 2017.

In general, the SCM Group software suites are designed as open systems that can operate with any type of machine, allowing total control over every machine function, while being easy and intuitive to use by any operator.

At **Ligna 2017**, SCM Group is to present more than sixty products out of its wide range, able to meet the needs of any type of company, from small local carpentry shop to large multinational corporations. In particular, following their extraordinary success during the Open House event, held at the beginning of the year in the Group's headquarters in Rimini, Italy, the new **Morbidelli Author M100 and M200** machining centres will be presented, ready to start the "**AuthoR-Evolution**", along with additional new products shown in a world première and various other "upgrades" of the entire product line.

This year's edition of **Ligna** comes at a particularly happy moment for Scm Group, **whose 2016 revenues came to nearly 600 million euros**, up from 513 million in 2015 and 466 million in 2014. Four-hundred million out of the 600 million total came from the woodworking industry. Exports account for a major part of SCM Group's market share, but the Italian domestic market has shown an impressive recovery.

The Group, with its network of subsidiaries and distributors spread around the world, boasts a total of over **300,000 square metres of production floor area** and about **3,300 employees**.

Industry 4.0 implementation A mass-customisation process

At **Ligna 2017 SCM Group** is to present a **cell system** that meets the needs for **customised industrial production**, implementing **Industry 4.0** concepts.

The chosen practical example is a cell system that produces furniture parts. The system's capacity is approximately 8-10 sets per shift. It is an automated system, where control over the entire process – from raw panels to the finished piece – is absolute. It is a **solution that stands out for its low operational costs, as it requires only a single operator**; its minimum handling requirements, thus preventing production defects; and its **"lean" flow**, with no interruptions, bottlenecks and extraordinary maintenance.

It is a system that ensures high quality at low costs, extremely easy to run, even by an unskilled operator, and provides smart solutions, capable of producing a great variety of pieces, from the mass production of panels ready to be assembled to the "batch one" production. All thanks to the use of standard machines, totally reliable, high-performing and easy to use and configure.

The cell system includes the **Flexstore EL** standard panels storage system. The storage system receives orders digitally and production starts automatically. The **Flexstore EL** storage system consists in fact of two units that operate simultaneously. For high-capacity production of panels the **SCM Sigma 67** panel-saw is put into use to cut packs of panels. For the production of more complex parts, the **SCM Pratic S CNC machining centre with nesting capabilities** is used. This line is controlled by a robot which, aided by a software-controlled camera, picks up the nested panel and transfers it to the **Solution XD Edgebander**. Thanks to its automated changeover capabilities, the Solution XD can edgeband as many edges as required ensuring unparalleled quality. Upon exiting the edgebander, the panel is transferred, again by the robot, to the **Cyflex HP** drilling centre to complete the production process of the required piece. The process concludes with the panels exiting along roller conveyors ready to be delivered to the customer.

This entire process is run by the Watch software supervisor, which oversees all production phases from the issuing of the order to distributing the proper programmes to the machines. The Watch supervision system, a typical Industry 4.0 element, is designed to be "open" to customers' **ERP (Enterprise Resource Planning)** data systems.

This is a simple and functional solution made possible thanks to the use of an high-tech application that allows you to calculate exact flows and processing times, ensuring a fast and reliable return on investment. This cell system fully satisfies the **OEE (Overall Equipment Efficiency)** specifications.

With this cell system, SCM Group provides an industrial solution to the problem of customised production, meeting the needs of companies that are required to supply customised products, in a short time, with a limited number of operators available and with low production costs.

A single Group stand Showcasing a production of excellence Impressive collection of new products on view in Hanover

At **Ligna 2017 SCM Group** is to exhibit a large part of its products, from cell systems to classic machines, with plenty of new and "upgraded" products. For the first time we have chosen a single large stand to display our entire collection, in order to demonstrate the Group's strength.

Will be utilized an effective **multimedia system** which, using two large video walls (6x3.40m), offers a virtual view of machines and their technologies. Visitors, therefore, can benefit from this system to actually view the machines from "inside" them. A virtual experience that exceeds the actual one, providing an additional advantage to customers.

PANEL PROCESSING TECHNOLOGIES

MACHINING AND DRILLING CENTRES: On view for the first time at the German trade fair will be also the **Morbidelli Author M100 and M200** machining centres, which have enjoyed great market success since their introduction. These are two machining centres **featuring "all-in-one technology"** which offers companies of all sizes all that is necessary for the processing of wood and advanced materials. A focus of great interest has been the ability to ensure safety without perimetral protections around these machining centres, which reduces the required floor area, in addition to the extremely flexible worktable, fast tool change (less than 15 seconds) and a 14-position tools store system mounted directly on the mobile unit.

Eagerly awaited are also the brand new boring-milling and edging machining centres. This section includes the **Morbidelli Planet P800** machining centre designed for the furniture industry to perform drilling, milling and edgebanding, and the **Morbidelli Cyflex S CNC drilling centre**, with its reduced size and ability to perform also sawing and milling.

EDGEBANDING: There are plenty of new products in this field, beginning with the new **Stefani Easy Order SZ cell**, which combines – in a moderately priced single-sided single-operator edgebander – Batch One processing with measuring and tenoning-squaring.

Also eagerly awaited, among edgebanders with integrated handles, is the **Stefani J-Shape Solution**, based on an innovative technology that won the 2016 Xia-Xylexpo innovation award in the "Panel Processing" category. A technology that has opened the door to amazing prospects in the field of furniture design and use.

And regarding the subject of contemporary materials, combined with a top-quality finish, Stefani presents the wide range of **XD Solutions**.

Also on view at Ligna in its market debut is the new **Stefani** range of machines for new market segments, offering the possibility of using EVA and polyurethane glues with double pre-melters, and automatic machine adjustments with numerically controlled axes. **Olimpic** machines will be represented by new combinations intended for broad market segments, offering numerically controlled axes hence allowing machining of two different radii. It is worth noting that at Ligna the **Olimpic** range of machines will be presented with a new design following a thorough restyling.

PANEL SIZING: Turning to **beam saws**, there are great expectations to see the new operator's interface. All machines will come with a 21-inch "multi-touch" screen which will facilitate and

simplify the operator's work using software programmes that ensure total connection freedom. Here too we are in full compliance with "industry 4.0" principles. The **SCM Sigma Prima** and **Gabbiani Galaxy 125 beam saws with loading table** will demonstrate how the Group has successfully implemented its high technology even in more accessible models. Of great interest is also the use of **web cams** within machines to facilitate remote assistance. "**Bar coding**" is to be demonstrated as well, facilitating the storing of materials that can be later reused, in order to reduce waste. The third beam saw to be displayed is intended for cutting plastics and aluminium, with all specific devices required for processing such materials.

SANDING: In the field of **calibrating and sanding**, **DMC will present EuroSystem**, the new muscular model fit for companies of all sizes and designed to provide an array of diversified solutions using high technology and modular devices, which allow a great number of configurations.

Also on view will be **the top of DMC product range, with three System sanders**, which can meet every possible need: from calibrating and sanding to surface customisation, with their innovative technological units that help achieve countless finishing effects, such as saw blade marks and carving effects.

SOLID WOOD PROCESSING TECHNOLOGIES

MACHINING CENTRES: The main novelty in this sector is represented by the numerically controlled **SCM Accord 25 FX** machining centre, which comes with a new operating unit with an "on-board" tool changer and dual independent Z-axis. High technology is used also in the **SCM Accord 50 FX**, a 5-axis machining centre designed for multiple and innovative applications and thus granting the freedom to process workpieces up to 500 mm high and made of various materials: solid wood, plastics, composites, resins and light alloys.

DOOR AND WINDOW FRAME SOLUTIONS: Also on display at Ligna will be the **SCM Accord WD**, the flexible machining cell used in the production of door and window frames, and which, being fully automated, does not require the constant presence of an operator. Completing the collection is the **SCM Superset NT throughfeed moulder**, in a 7 heads composition and with new electronic control.

TIMBER FRAME AND SIP MACHINING CENTRES: For the wood construction industry, Scm Group will exhibit the **6-axis Routech Oikos** machining centre, used for processing structural beams and wood elements of modular walls and a must-have for companies in this industry. **Oikos** can perform complex machining of beams with the kind of high precision offered only by numerically controlled machining centres. It also comes with a software application that allows intuitive programming for processing the most complex workpieces. Finally, this machining centre is compact, with reduced footprint as compared to other solutions available on the market.

MACHINING CENTRES FOR ADVANCED SOLUTIONS

Also on view in the huge space in Hall 13 will be a large section dedicated to **high-tech CMS products, including three machining centres**.

Atom is a 5-axis mobile gantry machining centre offering an exceptional dynamic movement to ensure high productivity. Its advanced structural design ensures no vibrations and excellent finishing quality. Atom can be used for producing all kinds of furniture. With its ability to work with

composite materials, it is being used also in the aerospace and in automotive industries. Noteworthy is the fact that this machine integrates **CMS Adaptive Technology**, which allows operators to obtain optimal parameters of surface material removal by simply setting the appropriate mapping according to material type and surface type. **Adaptive Technology** greatly reduces cycle times machining complex surfaces, without compromising finishing quality and accuracy.

Also on show in Hanover will be **Monofast**, a **CMS** exclusive and winning solution for automated production of complex objects such as gunstocks, pistol grips, eyewear and other small objects.

Some space will be given to the **TurboPower** innovative array of gantry-type machining centres, offering high flexibility in performing a wide variety of ever more complex processes in the woodworking industry. The machines' compact size poses no limits on their power but facilitates worktable handling when changing machining types. **TurboPower** is perfectly suitable for any furniture production sector, as well as for the production of stairs and musical instruments.

MACHINES FOR SMALL CARPENTRY SHOPS

A large space within Hall 13 is set aside for machines for small and medium sized companies. In this case as well, Scm Group introduces new products. The spotlight will be on the new **Minimax Si 400 X circular saw with tilting blade**. To be unveiled for the first time is also the **Minimax ME40** edgebander which accepts all finishing units and runs at high speeds ensuring productivity levels that are uncommon among machines intended for craftsmen and small carpentry shops. Large space will be given to the entire range of the classic **Invincible** machines. SCM Group strongly believes that in this specific sector customers must be treated as equals, be encouraged to interact with the company and offer comments and suggestions for improving the machines and adding optional parts for special processes. A type of relationship that Scm Group wishes to build up with additional initiatives.

SURFACE TREATMENT

Superfici machinery will be displayed in Hall 16 at the Ligna 2017 fair, offering advanced solutions for painting panels, furniture parts and window and door frames, and focusing on flexibility and the use of latest-generation painting cycles. Heading the collection is **Bravorobot**, a **painting robot system** with a three-dimensional control of workpieces, for quality spraying of panels and even of custom shapes and complex edges. **The Maestro robot** is a first-rate complete solution for painting door and window frames. Especially noteworthy are the **UV Led Matrix systems**, marking the new frontier of UV curing, a smart choice in terms of energy consumption savings.

HIGHLIGHTING THE ENTIRE PRODUCT LINES

In addition to the new products and models presented at **Ligna 2017**, you can learn, at Hall 13, about all the Group's product lines, including **Cpc and Scm assembly and packaging systems** and **Mahros handling and automation solutions**. Also on view will be **Celaschi tenoning-squaring machines**, the **Scm planers-moulders range** and the **Sergiani presses**. **Scm Group Engineering solutions** for producing parquet, panels, insulated panels and doors will be presented as well.

High resolution photos are available at the following link:

www.scmgroup.com/press/ligna

February 2017

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