

Huge success for high technology in action at the "SCM Live Show"

More than 4000 "on-line" guests from 100 countries took part in the live streaming event from 30 June to 2 July. Presentations and in-depth discussions with SCM experts on the latest technological new entries dedicated to the entire wood industry

A television show with more than 24 hours of original content **broadcast in live streaming world-wide in nine languages**, spread across **three days**, from 30 June to 2 July to present the latest 2020 technologies that should have "taken to the stage" at the various international trade fairs that have been postponed or cancelled since last February due to the Covid-19 health emergency.

A genuine challenge for SCM, the multinational group with its main headquarters in Rimini, leader in the wood machining industry since 1952. With the "SCM Live Show" event, SCM has decided to use **innovative multimedia channels and tools** to "open the doors" of its headquarters in Italy, via web, to thousands of customers from all over the world. SCM "brings" the new machines and industrial plants for the entire wood machining industry, directly into customers own home: from the furniture industry to windows and doors and from the construction industry to artisan businesses.

The "Corporate headquarters" in Rimini and the group's other production sites around Italy were transformed into television studios to achieve the vast show schedule of live link-ups, webinars and talk shows. **Thirty product webinars** saw more than **fifty technological solutions** take centre stage to represent the vast range of SCM products and services starting with the Smart&Human Factory, the well-known human-friendly digital factory for the furniture industry.

SCM's eighteen **directly managed branches** operating on the most strategic markets in the wood industry around the world, in Europe, Asia, the Middle East, America and Oceania were also involved with live link-ups.

The response from industry businesses was even better than expected, if we look at the access data to the streaming platform set up by SCM for the occasion: **over 4,000 registrations from one hundred countries on every continent**, with an average daily audience of **1,500 individual viewers**.

The same customers who enrolled took part actively, constantly using the various channels made available during the event to interact with SCM experts and discuss the latest products and key industry trends. This is clear from the hundreds of **in-depth questions** on the various technologies that were asked as well as contact requests via the streaming platform during the live broadcast and from which important opportunities have arisen. This is followed up by specific visits to customers from the SCM sales team. The event content is still available on the platform and contacts from clients all over the world, looking for more in-depth information and new appointments continue to arrive.

The commitment in terms of human resources was also considerable. **More than fifty professionals hired** for this unique "digital trade fair" including cameramen, technicians, writers, director and presenter. **More than one hundred** SCM employees involved in the preparation and creation of the show.

During the event, we received invaluable participation from some of our long-standing SCM customers such as **Maurizio Riva**, owner of a "Made in Italy" excellence, that of **Riva1920** from Cantù (Como), who supplied the exclusive design furnishings for the television studio in Rimini during the event.

SCM HIGH TECHNOLOGY IN ACTION

The numerous technological new entries displayed - **integrated stand-alone cells and machines** - satisfy the most varied production needs of secondary wood processing: from upgrades on the wide range of machining centres and panel drilling to those concerning machining centres for solid wood and timber construction: from proposals for flexible and j-shape industrial edgebanding, to angular sizing; from

integrated surface treatment, with the latest in the ranges for pressing, sanding and finishing, to state-of-the-art solutions for packaging; from specific technologies for windows and doors and integrated lines for doors, to models for squaring-tenoning and profiling. As ever, with a focus on the most wide ranging, sought-after collection of joinery machines, with a new cell for sizing, drilling and edgebanding and the exclusive launch of a new app for artisan workers.

The Smart&Human Factory for the furniture industry

Already presented at Ligna 2019, after numerous implementations on cutting-edge markets in Europe, the United States and China, SCM's Smart&Human Factory was re-proposed with new *additions* to further increase productivity and flexibility, reduce waste and optimise the quality of the end product even on more sensitive markets.

The new version - only an example of the various configurations that this production model can achieve based on customer needs - involves three **modular, flexible automated cells integrated with articulated robots and interconnected by intelligent AMR unmanned shuttles**.

- **Sizing/nesting cell.** The "**morbidelli x200**" nesting machining centre, designed for "batch 1" flexible production is directly integrated into the high performing "**flexstore hp**" automatic storage for boards. This allows the stored and labelled panel to be directly loaded on to the worktable which protects those panels with a delicate surface. Once the nesting function has terminated, an **articulated robot** unloads the operating panel directly from the worktable and positions the different parts on the AMR shuttles which depart towards the next cell for edgebanding. Another new aspect concerns the **management of smaller pieces and waste**: the robot also picks these up, making them available for future made-to-order productions with a considerable reduction in waste material. The cell is also designed so that all the panels with no problems of **delicate surfaces** can be manually unloaded from the belt. The "pack" cut made with a blade that guarantees high productivity on repetitive logical cuts is done simultaneously to the nesting that offers excellent flexibility when cutting single sheets. This function is carried out by the **new "gabbiani p80" panel saw**, that was given its world preview at the event. This model offers a number of exclusive advantages: The "Saw-set" device for an automatic, precise setting of the tools, the 60 and 80 mm blade projections, more powerful motors, an additional extractor outlet on the presser and automatic blade release with switch.
- **Flexible edgebanding cell.** The **new "batch 1" "stefani cell E" cell** is configured with an **articulated robot** for fully automatic management of panel loading/unloading operations. The solution combines the advantages of a customised production and large volumes with a compact overall design and, above all, with an accessible investment even for SMEs. Parameters like colour, edge thickness, the position and depth of the mortise, the management of the protective film and panel sizes can be continually changed without interrupting the production flow. With the **new gantry panel return system** for the automatic return of panels, the panel is automatically rotated to speed up the next in-feed. It will also be possible to unload at the end of the cycle in masked time with the next loop load.
- **Packaging cell.** This cell is the ideal solution for furniture kit manufacturers and includes **two machines, that have been given their global preview**. We are talking about the "**cut c 200**", an automatic punching machine for the *just in time* cutting and production of an open cardboard box, with the required sizes and shape, and the "**pack c 100**", automatic solution for packaging with *hot melt* glue, starting with a pre-punched sheet of cardboard. All the operator has to do is position the product for packaging on the open box (in this case the panels coming from the edgebanding cell) after which, the upper lid is automatically closed by the "pack c 100". Thanks to the automatic measurement change setting, packagings can be created with different size boxes, positioned in sequence on the roller.

Integrated surface treatment

Three examples of the integrated process for exclusive, sought-after finishing solutions introduced at the "SCM Live Show", demonstrating SCM's capacity to make its mark on the market as a unique, complete partner in this sector.

- **Flexible painting cell.** The versatility of the finishing effects is guaranteed by the "**dmc eurosystem**" sanding machine, fitted with two new additions: a completely new planetary unit, ideal for structuring, chamfering, sanding the cross grain and precision finishing of any surface, and the interchangeable brushes unit, ideal for those in search of maximum production flexibility. The integration with the **Superfici "mini"** sprayer is essential. It is ideal for the sprayer's automation even in small businesses, that allow for the easy management of small production batches with regular product changes.
- **Painting panels with the latest 3D effects and super opaque finishings.** This involves highly innovative solutions like the "**dmc system**" sanding machines that transform the concept of sanding machine in a flexible abrasive modular centre, and the **Superfici "valtorta f1"** roller and "**magnum**" spray painting systems. A combination that allows you to achieve some of the most sought-after finishings requested by today's market.
- **3D Lamination.** This integrated process example includes sanding, with the innovative units for gouging and brushing in the "**dmc system**" range and the state-of-the-art **Superfici** systems for applying glue, that is, the efficient Cartesian robots with the ability to 3D scan pieces for selective spraying of edges and routings. The process concludes with the "**sergiani 3d form hp**" press, a solution with high productivity levels and flexibility thanks to the "**Flexy Pin**" system and the configuration of the press up to three trays, that reduces the cycle time to the pressing time only. High definition of the end product even with the most complex 3d surfaces.

Machining centres for furniture: the evolution of the "morbidelli" range

If the All-in-one "**morbidelli m100**" machining centre for drilling and routing evolves further with the **new ultra-compact, reduced bulk solution**, that makes the 5-axis machine the smallest on the market, in the "**morbidelli p800**" boring-milling and edgbanding centre, the combination between the MATIC work table and the innovative operator unit allows the most complex shaped pieces to be machined in just a few steps. For **nesting**, the "**morbidelli x200/x400**" range makes its mark by cutting pieces, even shaped ones, in a variety of forms and sizes with production levels once considered inconceivable for this kind of machining. Flexibility and high productivity find their ideal synthesis in the drilling process with "**morbidelli ux200**": thanks to 4 separate operator units (two upper and two lower), any kind of piece can be machined in a few steps. Furthermore, the possibility of machining two overlapping pieces means the production of symmetrical pieces can be doubled.

Panel sizing: the "gabbiani a2" world preview and the new "gabbiani gt2"

As well as the "gabbiani p80" included in the Smart&Human Factory, the event presented another new world preview: the "**gabbiani a2**" angular panel saw, designed to meet all the demands of panel machining, from mass production to "batch 1", and particularly suitable for companies that are more conscious of machine cleaning and the working environment thanks to the innovative "**Zero dust system**" unit. The "new gabbiani a2 with 95, 115 and 125 blade projection, offers maximum performance in terms of productivity and cutting quality.

The "**gabbiani gt2**" single-blade saw designed to guarantee high performance in an evolved industrial context of *just in time* productions, was also highlighted. The new "**Hi-Tronic vertical stroke**" blade carriage, in particular, allows for excellent finishing and accurate cutting even at high speed, with surprising results in terms of productivity and cutting quality over time.

Edgebanding: seventy years of high technology by the side of the most innovative businesses

"SCM Live Show" was also an opportunity to celebrate the seventy year anniversary of the Edgebanding Business Unit. A long road featuring high technology and know-how, at the side of artisan businesses just as much as that of large industries, thanks to a wide range of models: from the continually evolving single-sided "**stefani**" and "**olimpic**" edgebanders, to the cells and plants fitted with rollers, panel return devices, automatic loading and unloading systems, assisted by robots and fitted with IoT sensors for an increasingly more immediate confirmation of the machine's running, in line with the demands of Industry 4.0. These include the new generation of "**stefani cell**" and "**stefani rocket**" **flexible industrial edgebanding systems**

for "batch 1" machining, modular systems available for machining with or without panel squaring, capable of adapting to current production demands and machining quality. Also highlighted are the most advanced models for **Softforming** like "**stefani one**", designed to offer maximum personalisation in achieving design products.

Windows and doors: all the bonuses of the accord machining centres and the new range of superset nt throughfeed moulders

The "**accord**" machining centres for the manufacturing of windows and doors was also highlighted during the "SCM Live Show". The latest evolution in the range, "**accord 42 fx**", attracts considerable interest both from window and door manufacturers as well as door and staircase manufacturers. With **combined three and five axis double machining units** with independent heads, it has been designed to best combine the need for high power and profiling with creativity and production flexibility needs.

Unique quality and precision are the advantages of "**accord 25 fx**" thanks to its gantry structure and powerful 5-axis electro-spindle. The MATIC work table and the innovative BRC multi-function unit reduce set-up and tool change times guaranteeing excellent productivity.

For larger sized pieces, the solution is represented by "**accord 50 fxm**" that stands out for its structure, designed to guarantee maximum rigidity and precision, and its exclusive 5-axis machining unit.

The most flexible machining centre in the category that can be used both in cell as well as stand-alone mode, is the "**accord wd**", SCM's innovative solution that allows for the loading and unloading cycle of solid wood elements (like door and window structures) to be automated.

The "**superset nt**" range for throughfeed moulding is updated for manufacturers of profiles for windows, doors, staircases and furniture. The structure of the new model allows you to work in complete comfort and safety: relative supports allow you to hook the extractor hood covers directly on to the machine, millimetric rules simplify the manual positions of the operators' drive heads and tool change operations are always guided.

The doors in evolution process: pressing, panel squaring and edgebanding

The SCM event closely examined the latest trends in the door industry and engineering solutions for an intelligent, integrated production.

Solutions with different levels of automation and productivity up to a 1000 doors per shift were presented for **pressing**. These include the "**sergiani las**" continuous cycle automatic press for highly flexible intensive production of hollow core and veneered doors with a production capacity of 1 door every 20 seconds.

The "**celaschi**" range of "**solutions for profiling and squaring**" to machine every kind of door with wooden frame and even special ones with fibreglass folders is also vast. From the range's "entry level" model, the "**celaschi p30**" manual loading and unloading double squaring machine capable of guaranteeing squaring precision and measurements to the order of tenths of millimetres, to the lines fitted with "**mahros**" loading and unloading moving systems for companies looking for top quality productivity and flexibility in the profiles, even in the case of large sizes and weights up to 80 kg.

Taking centre stage for **flexible edgebanding of doors** is the "**stefani flex**", capable of guaranteeing a continuous and efficient production loop, irrespective of the machining profile. This occurs thanks to integration with the "**mahros**" automation system to manage automatic loading and unloading.

LVT Flooring

Also taking centre stage on this front, the "**celaschi**" range of solutions for **profiling and squaring for any kind of flooring**, with an exceptional quality thanks to the high precision chains for which the "celaschi" range boasts an experience spanning more than 70 years.

The turnkey lines from automatic loading to packaging can handle a wide variety of formats and guarantee state-of-the-art productivity of **100 pieces/min**

Machining centres for timber construction

Also in the limelight at the "SCM Live Show" was SCM machining centres' technological innovation for the timber construction industry and their application in the construction of vast structures (bridges, covers etc.. multi-storey buildings and skyscrapers). Of particular note, the "**oikos x**" and "**area**" machining centres. The first model, a **6 axis** model, is specific for machining structural beams, X-lam/CLT wall panels and large

scale columns and is conceived with a view to **maximising performance** in terms of working volumes, dynamics and power. The other machining centre, "area", on the other hand, is particularly suited to companies that need to work large scale CLT panels with high levels of **flexibility, precision and reliability**. 2020 will see the technological development of SCM solutions designed for vast wooden constructions in line with demands from a continually expanding market.

Machining centres for chairs, tables and furnishing accessories: the latest from the balestrini range

First ever preview of the new numerically controlled "**balestrini pico**" tenoning-mortising machines, entirely redesigned to optimise safety, ergonomics and ease of use. These include: "**balestrini pico fj**", the most complete machine on the market for producing complex joints such as *Miter doors*, *face frames* and *French joints* on doors and shutters, and the "**balestrini pico om**", the small "all-purpose" machine that will show how easily joining operations on elements like chairs and tables can be achieved.

Machining cell for artisans

This cell to create cabinets, whose strong point is its highly competitive price, offers stand-alone solutions specific for both custom designed productions and small series, for the evolved artisan; machines that guarantee excellent performance thanks to their significant technological content, to make even the most complex machining simple.

With a **production capacity of around 30 pieces/shift**, the cell is made up of: "*class px 350*", new mobile carriage circular saw with tilting blade up to 46°, to machine in complete safety, with reduced sizes and a perfect grip on the panel; "*me 40*", high productivity edgebander with exclusive rounding unit; "*startech cn plus*", automatic drilling-routing machine that makes its mark thanks to the significant power of the electrospindle on the drilling head and its high operating speed.

Also in the limelight is the new "**SCM Thundercut**" **optimiser/sequencer**, an App per iOS and Android OS, that allows you to optimise the surface of the panel and guide the operator with the cutting sequences to be made.

DIGITAL SOFTWARE AND SERVICES

At the forefront of the "SCM Live Show" is also the "**Digital Integrated Woodworking Process**", which demonstrates how software and digital services can assist the customer at each stage of the process in creating the piece of furniture: from the planning and preparation of the data to the machine production right up to production monitoring, maintenance and after-sales service.

For the **data preparation** stage in the machinery, the new programming software versions were presented for the **Maestro cnc** machining centres and **Maestro ottimo CUT** cutting optimisation.

In response to **production planning** needs, SCM presented an **MES** solution integrated into the SCM machines to assist customers with programming and managing the production flow.

The new HMI multi-touch **Maestro active** demonstrates how it is possible to have a control and even simpler, better interaction with the machine, at the **production** stage.

Lastly, in support of the production **monitoring** stages, machine **maintenance** and after-sales **service**, the new **Digital Services** enabled by the **Maestro connect** platform were presented.

More detailed editorials and images on SCM's new entries can be consulted on the SCM website at the following link: <https://www.scmgroup.com/en/scmwood/news-events/press/pr116450/scm-live-show>

With a turnover of over 700 million Euro and 4,000 employees, **Scm Group** is the global leader in technologies for machining a wide range of materials: wood, plastic, glass, stone, metal, composite materials and industrial components. Across the globe, the group's companies act as highly reliable partners to leading industries in a wide range of product sectors, from furniture to construction, automotive to aerospace, and yachting to plastic machining.

Scm Group coordinates, supports and develops a system of industrial excellence in 3 large, highly specialised production centres in Italy and it operates on all 5 continents.

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