

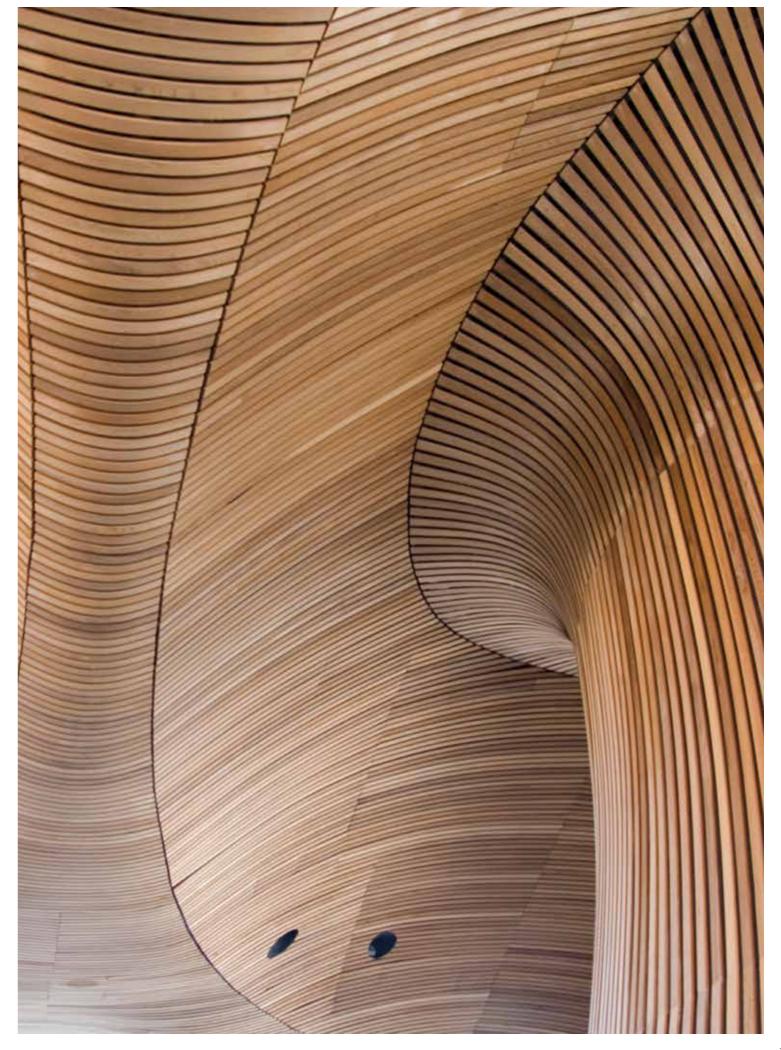


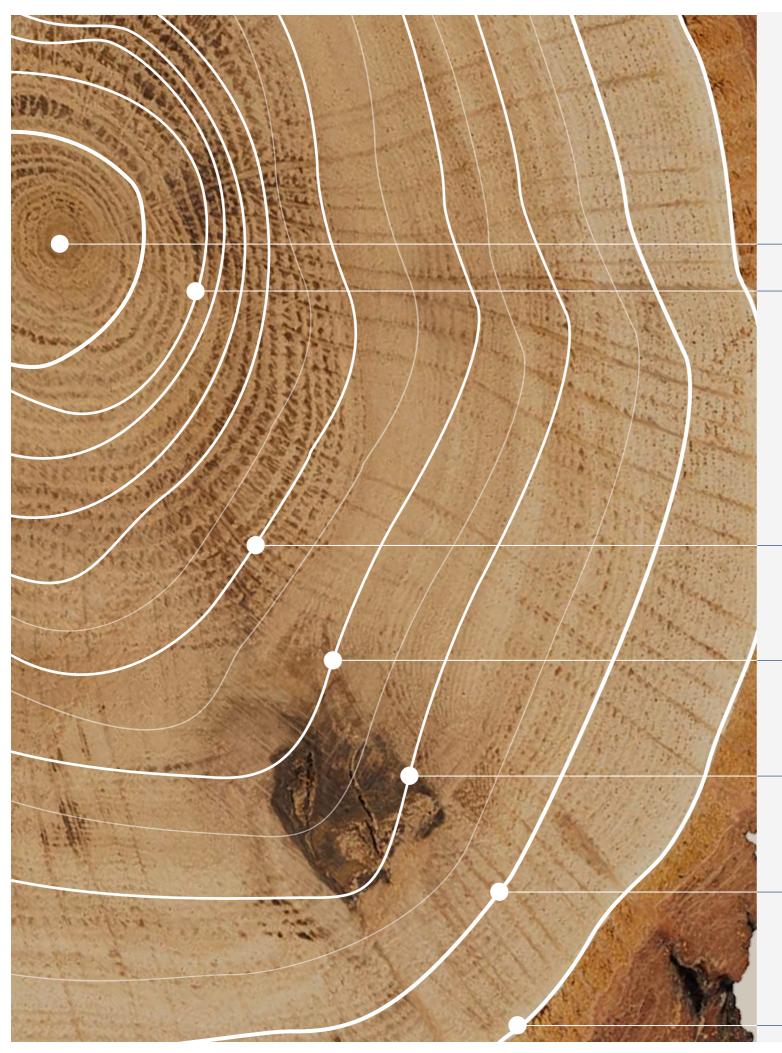
SINCE 1952 WE HAVE BEEN FIRM LEADERS IN THE MANUFACTURE OF MACHINES, SYSTEMS AND SERVICES FOR THE WOODWORKING INDUSTRY

Since 1952, **SCM** is the world-leading producer of machinery and systems, as well as service provider, for the woodworking industry. Our 3 major production centres in Italy boast a record annual production output of over 20,000 machines, supported by the largest distribution network in the industry and an excellent after-sales service.

Its state-of-the-art woodworking technologies and applications are able to respond to all market needs, both within an industrial context and in that of the craftsman, both for machining panels and processing of solid wood.

As from today, SCM is the reference brand in the field of woodworking machinery and that of the specific technologies developed by the historical brands, who now give their respective names to each of the machines.





1952

1976 **SCM** develops the first solid wood machining centres and door and window systems and quickly takes on a leading role.

The history of SCM dates back to 1952 when Nicola Gemmani and Lanfranco Aureli produced their first woodworking machine, designed by Giuseppe Gemmani, Nicola's son.

FOR OVER 65 YEARS, SCM HAS BEEN AT THE FOREFRONT OF THE INDUSTRIAL REVOLUTION IN THE WOODWORKING SECTOR

1985

SCM takes over **Morbidelli**, a move that is followed by the takeover of other prestigious companies such as Stefani, Gabbiani, Dmc, Superfici and others, until its **panel machining processes** are complete and it again takes on a leading role.

1992

SCM then takes over **Routech** and in the years that follow, it develops a series of technologies for machining wooden elements for the construction industry.

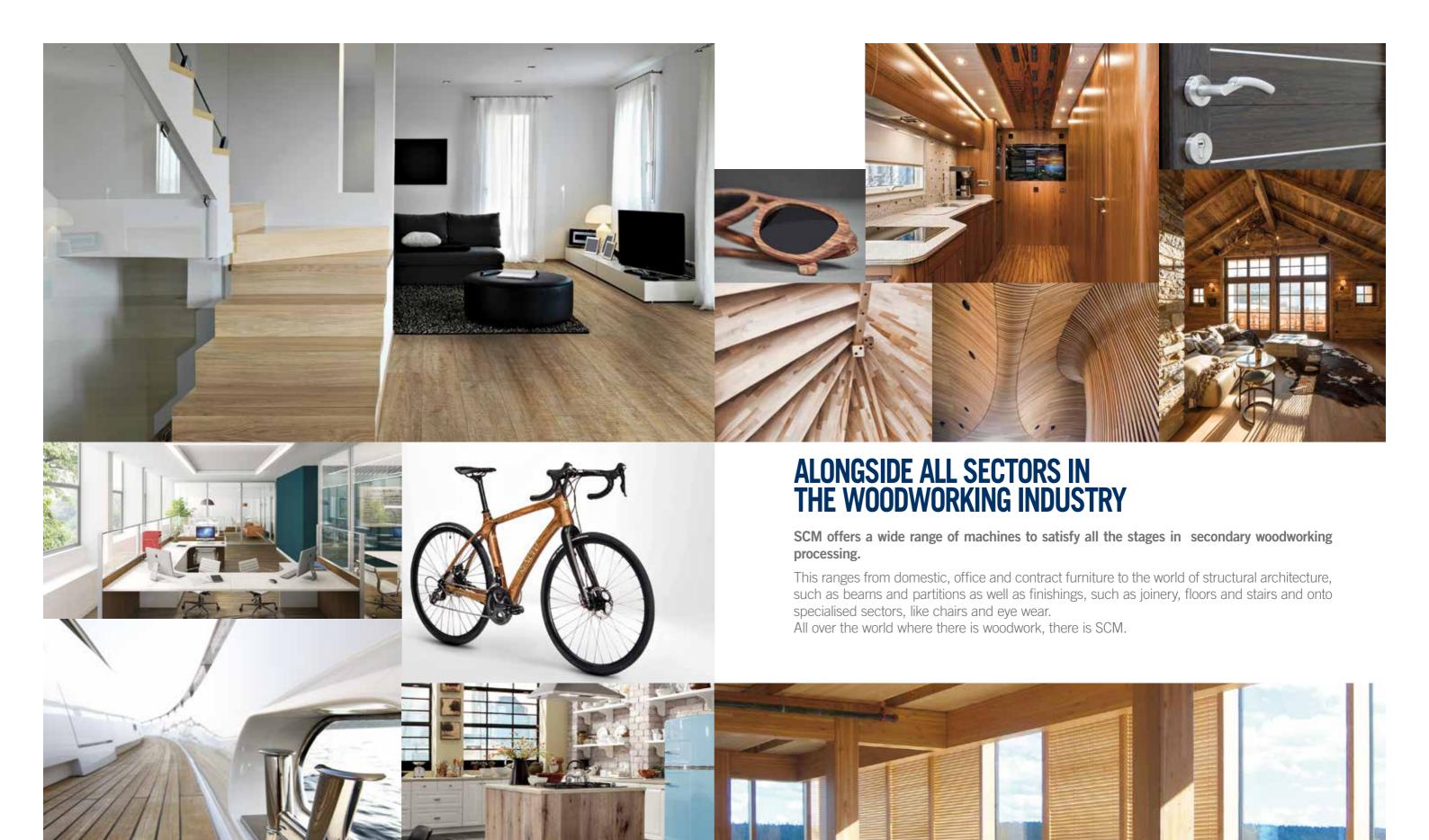
2009

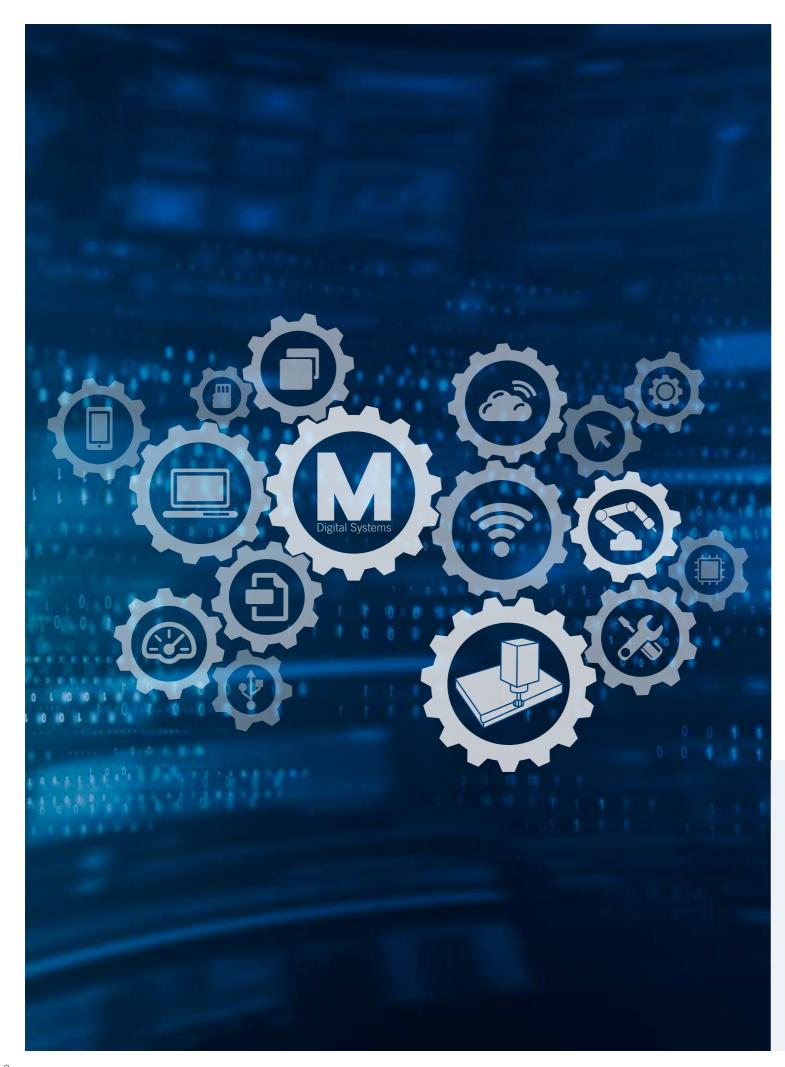
The company launches its industrial consolidation and development plan. **SCM** reorganises, implementing Lean Manufacturing strategies in its entire production process to obtain the highest levels of quality and efficiency.

SCM strengthens its skills in the **machining of solid** wood and parts for seats, tables and wood components with the buyout of Balestrini.

2017

SCM becomes the Group's reference brand for the woodworking sector.





SCM DIGITAL INTEGRATED WOODWORKING PROCESS

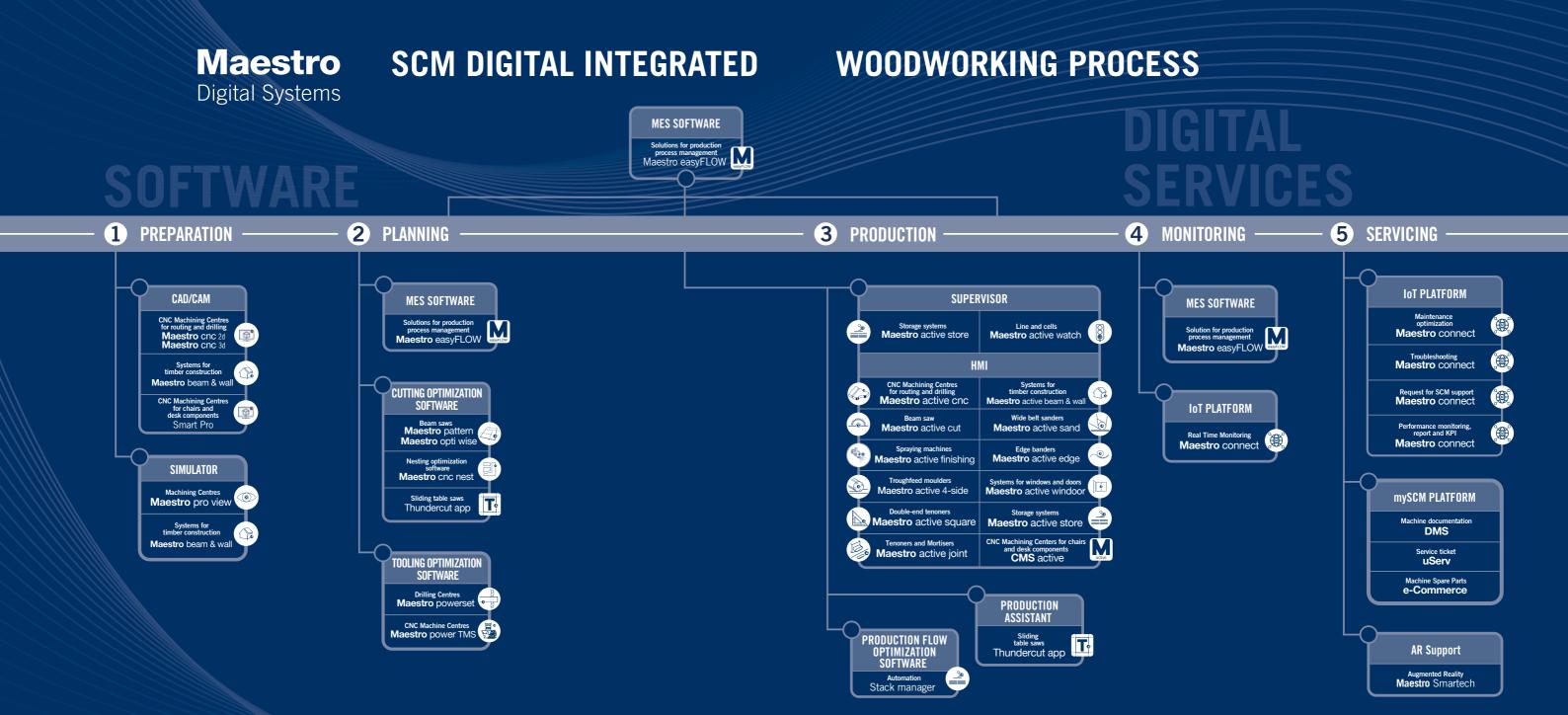
Integrated software system, digital and technological services of wood for maximum control of production process information.

SCM accompanies woodworking companies throughout the entire process, integrating machines with digital software and service solutions, with a constant focus on improving performance to optimise company productivity.

The SCM integrated system is based on the continuous digital evolution of technologies for wood and designs a flow of simple, fully communicative stages to deal with any kind of production demand. The result is an integrated, advanced, dynamic and digitally connected process.

SCM's software solutions have been designed to integrate with the pre-existing software in the company, to optimise the use of the machine and the entire process.

Work simple. Work digital



PREPARATION. The first stage involves preparing all the information, data and programs needed for production. It is here that the **CAD/CAM software** to transform the drawings in machine programs or **simulation software** can drastically cut times and errors that exist in the process from the office to the machine.

PLANNING. Once the machine drawings and programs have been created, and every time a new order enters, it is essential to optimise the work and plan the production needed to deal with orders. The production schedule is controlled with specific software like the MES (Manufacturing Execution System) **Maestro easyFLOW** software. Furthermore, this is also the stage at which all the optimisations, from cutting to drilling, are carried out to minimise scraps, waste and reduce production times.

PRODUCTION. The intelligent factory consists of machines fitted with an HMI software that facilitates the interaction of the user with the machine. The **Maestro active** machine's interface, line supervision and system software make the user experience easier, and it becomes simpler and more intuitive.

MONITORING. Once production has been launched, the **Maestro connect** Digital Services IoT platform allows for production maintenance to be monitored in the machine even from mobile devices. The MES **Maestro easyFLOW** software also allows orders under production and the control of its completion and lead time to be monitored.

SERVICING. For the entire life cycle of the machine, the IoT platform of **Maestro connect** digital services, and the **my I scm** portal, guarantee monitoring, optimisation of machine maintenance, problem solving, support at the selection stage and when ordering spare parts, as well as augmented reality support with **Smartech** glasses.



SCM SERVICE WE'LL GO THE EXTRA MILE FOR YOU



- Installation and startup
- Preventive maintenance programmes
- Warranty extension into a second year
- Checks and alterations to machinery on site due to a change in production needs
- Updating obsolete products



DIGITAL SERVICES

SCM firmly believes that the experience stemming from years of work in the field and a constantly keen eye on the digital future are the winning combination for satisfying all its customers' production aims. From here, a commitment to guaranteeing state-of-the-art digital services and products in conjunction with the steady support of the best technicians. Here are some of SCM's digital services:

- Maestro connect: the IoT Maestro connect technology allows the machine's parameters of use and productivity to be constantly monitored and reduce down times, to ensure top performance at all times.
- **Maestro Smartech**: the augmented reality SCM device that allows for a direct connection to be established with the technicians and work hands free.
- my I scm portal: access point to all the services and tools that SCM makes available, and through which you can open help tickets in a click.



- Courses for machine operators
- Software and programming courses
- Training in production start-up
- Maestro connect courses



SPARE PARTS

- List of recommended spare parts
- E-shop
- Interactive spare-parts catalogues
- Repairs on electronic parts, glue tanks and electro-spindles
- 36,000 different product codes
- Automatic storage

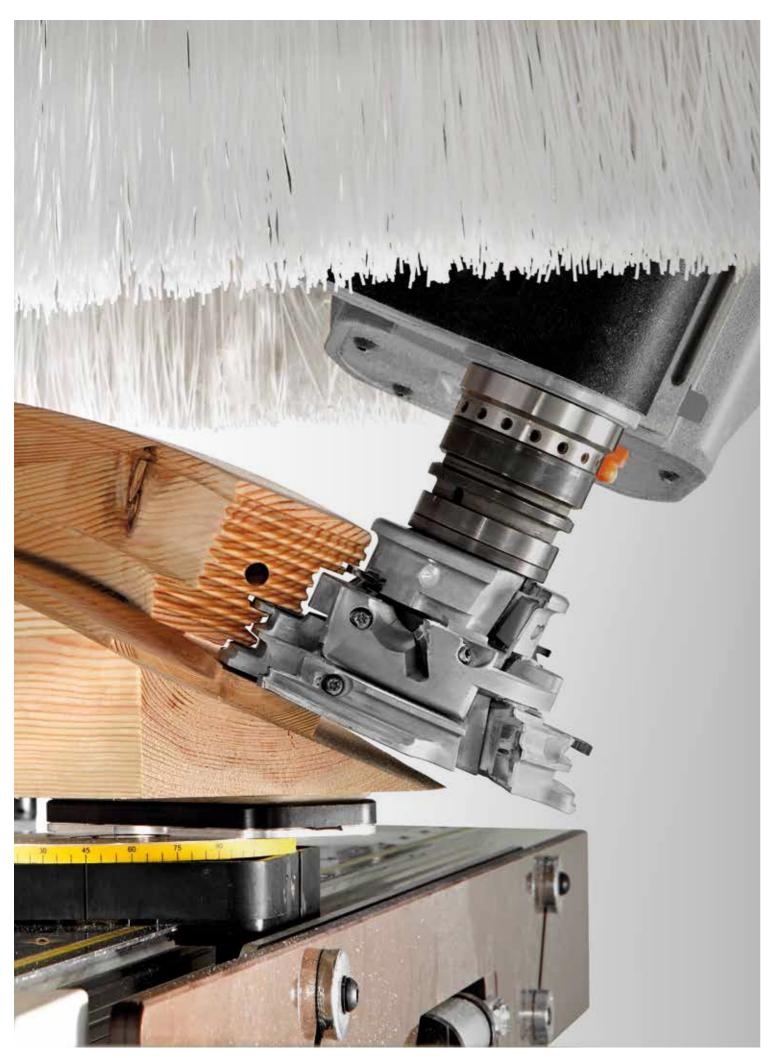


A VAST HERITAGEOF SKILLS IN A SINGLE BRAND

2017 saw the start of the company's rebranding, making SCM the world's leading name in the sector for secondary woodworking machinery and for those specific technologies that originated from the historical brands, who have now given their names to today's machines.

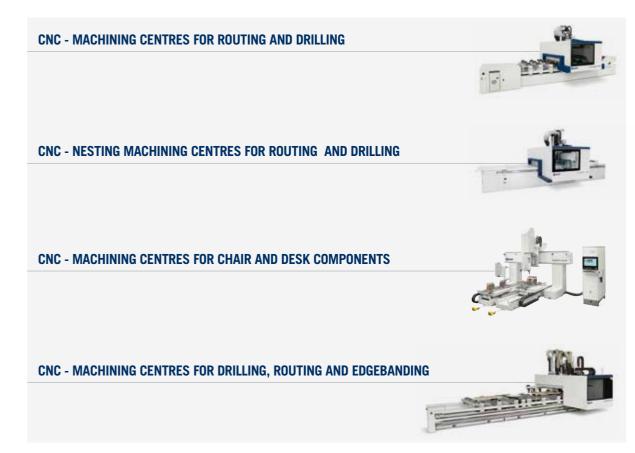
Today SCM is an important industrial company dedicated entirely to woodworking technologies in which the most advanced principles of *Lean Production* have been applied to guarantee the highest levels of quality control and significant savings in terms of time and costs.

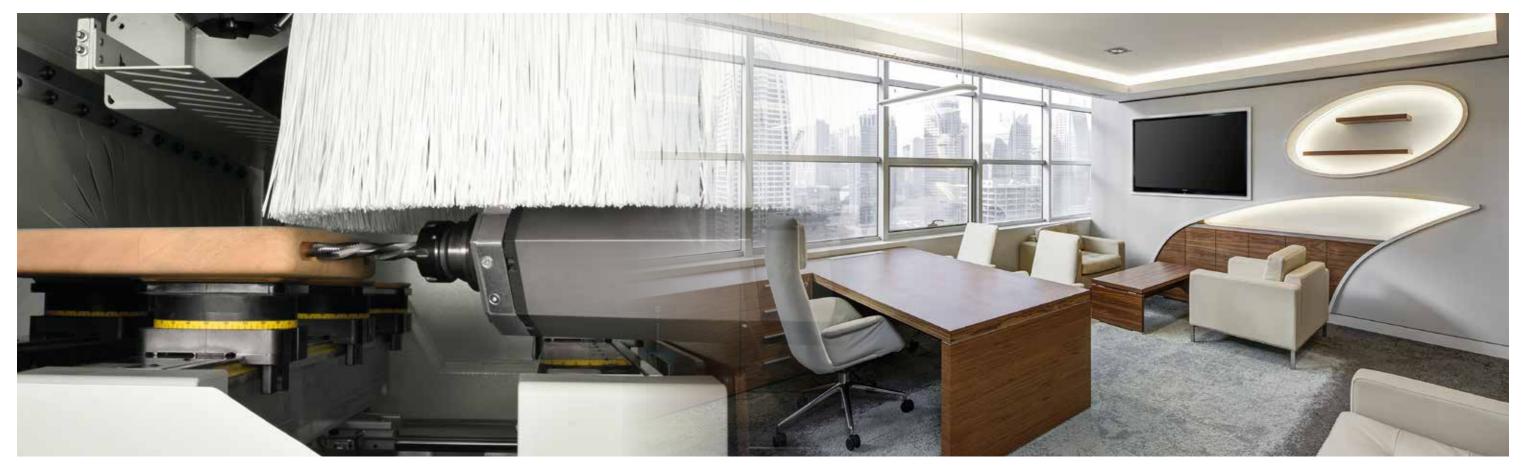
WOODWORKING TECHNOLOGIES	ORIGINAL BRANDS
CNC - MACHINING CENTRES FOR ROUTING AND DRILLING	MORBIDELLI
CNC - NESTING MACHINING CENTRES FOR ROUTING AND DRILLING	SCM
CNC - MACHINING CENTRES FOR CHAIR AND DESK COMPONENTS	BALESTRINI
CNC - MACHINING CENTRES FOR DRILLING, ROUTING AND EDGEBANDING	MORBIDELLI
EDGE BANDERS AND SQUARING EDGE BANDERS	STEFANI, SCM
BEAM SAWS	GABBIANI, SCM
DRILLING SOLUTIONS	MORBIDELLI, SCM
AUTOMATION SYSTEMS	MAHROS
SYSTEMS FOR TIMBER CONSTRUCTION	ROUTECH
THROUGHFEED MOULDERS	SCM
SYSTEMS FOR WINDOWS AND DOORS	SCM
MACHINES AND SYSTEMS FOR SQUARING, TENONING AND PROFILING	CELASCHI
WIDE BELT SANDERS	DMC, SCM
FINISHING SYSTEMS	SUPERFICI
PRESSES	SERGIANI
ASSEMBLY	CPC
PACKAGING	CPC
TENONERS AND MORTISERS	BALESTRINI
IOINERY MACHINES	SCM, MINIMAX, FORMULA
NTEGRATED SYSTEMS AND LINES	



CNC MACHINING CENTRES

The most comprehensive range for housing, furniture, contract and special products. SCM's wide range of CNC machining centres is a keypoint in its worldwide market range, as it meets all panel and solid wood machining requirements for the furniture, building and special product sectors.





CNC MACHINING CENTRESFOR ROUTING AND DRILLING

HIGHLY MODULAR MACHINING CENTRES THAT CAN SOLVE ANY WOODWORKING PROBLEM AND SATISFY ALL REQUIREMENTS OF FURNITURE MANUFACTURERS.

Solutions that combine quality and technology thanks to machining centres that can be configured to comply with customers' specific requirements.







SUPERIOR TECHNOLOGY AND QUALITY: JQX AND PRISMA ELECTROSPINDLES

Maximum flexibility and excellent machining quality: at the 5-axis disposal with the "JQX" (Just Quality eXtreme) and "Prisma" electrospindles, that guarantee completely vibration-free machining even with huge material removal at high speeds.

NO IDLE TIME: FAST AND RAPID TOOL CHANGERS

The on-board FAST 14 and RAPID tool changers ensure faster changes in just a few seconds between the machining operations.

PERFECT DRILLING: RO.AX SPINDLES

Zero play during machining with the new RO.AX technology (Rotoaxial spindle technology), the most efficient spindle on the market, with rotation speeds up to 8000

Reliable and flexible, it requires reduced maintenance (every 1000 machining hours).

MINIMUM OVERALL DIMENSIONS, MAXIMUM SAFETY AND FLEXIBILITY: PRO-SPACE PROTECTIONS

Completely free loading area to minimize the space occupied.

The absence of perimeter protections allows access to the worktable from all the sides of the machine.

NO SET-UP TIMES: TV FLEXMATIC AND TV MATIC WORKTABLES

The requested configuration is performed with precision in just a few seconds, without any risk of collision between the tool and the worktable

TOTAL FREEDOM AND HIGH PRODUCTIVITY: PRO-SPEED PROTECTIONS

They allow the machine to be used at the maximum feed speed.

Thanks to the front photocell barrier, when the operator enters the loading area, the speed is automatically reduced and then restored when the operator leaves the loading area.



CNC MACHINING CENTRE FOR ROUTING AND DRILLING

FOR WINDOWS, DOORS, STAIRS PRODUCTION AND SOLID WOOD MACHINING IN GENERAL

To meet the specific needs SCM has designed **accord**, a wide range of machining centres with a mobile gantry structure and bars or multi-function worktable.

The versatility of accord machines offers reliable, high performance technological solutions that can satisfy the requirements of an increasingly demanding market.





PERFECT FINISH QUALITY

The architecture with fixed table and mobile gantry structure, consisting of a sturdy construction equipped with front and rear sliding guides, ensures maximum accuracy and finish quality over the entire work area.

HIGH PRODUCTIVITY

State of the art processes to guarantee the best production standards, such as machining head with twin routing units, fast tool changers and high power electrospindles.

RAPID AND PRECISE SET-UP

The MATIC bars worktable with direct transmission system and independent drive units, assures the complete set-up in seconds. Simple and quick replacement of clamps and suction cups through the exclusive rapid locking device.

RELIABLE TECHNOLOGYThe SCM aluminium multi-function worktable guarantees perfect lasting planarity.

The direct integrated vacuum system allows the optimum work-piece hold down and the T-grooves are ideal for fitting of any type of mechanical locking equipment.

ERGONOMIC AND SAFE
The PRO-SPEED safety system with photocells and bumper protections, combines the safe access to the worktable and the maximum speed during machining.

INTELLIGENT PROGRAMMING

Simple and intuitive programming, thanks to the software that includes modules for different applications. Maestro Power TMS, for for example, is the innovative software designed by SCM to simplify and optimize tool



CNC NESTING MACHINING CENTRES FOR DRILLING AND ROUTING

CNC machining centres that are **ideal for nesting processing** and are specifically designed for manufacturers who need to produce in batches or in single orders.

Also available in "cell" version with lifting device and unloading belt.





FLEXIBILITY AND PRECISION: MULTI-FUNCTION WORKTABLE

Extremely stiff aluminium worktable designed to maintain long-term planarity despite repeated stresses and environmental factors, such as temperature and humidity; moreover, the integrated vacuum system is ideal for a direct and optimal workpiece clamping.

FREEDOM AT 360°: "PRO-SPACE" PROTECTIONS

Minimum overall dimensions, maximum flexibility and ergonomics: the absence of perimeter protections allows access to the worktable from all the sides of the machine.

TOTAL ABSENCE OF VIBRATIONS: MOBILE GANTRY STRUCTURE

Unrivalled performance thanks to the stiff structure of the mobile gantry that allows for high machining speeds, whilst ensuring precision and excellent finishing quality across the whole working area.

Excellent machining of flexibility in every concluding units available of machining centres.

PERFECT DRILLING: RO.AX SPINDLES

Zero play during machining with the new RO.AX technology (Rotoaxial spindle technology), the most efficient spindle on the market, with rotation speeds up to 8000 RPM.

Reliable and flexible, it requires reduced maintenance (every 1000 machining hours).

PRECISION AND FLEXIBILITY: 5-AXES ELECTROSPINDLES

Excellent machining quality and maximum flexibility in every condition, with 5-axes routing units available across the whole range of machining centres.



CNC MACHINING CENTRES FOR CHAIR AND DESK COMPONENTS

The balestrini technology includes high performance machining centres with numeric control, ideal for specific applications such as chairs, tables, curved cabinet doors, furniture and design objects. Compact size, heavy-duty structure and multi-purpose operating units ensure high accuracy and freedom when processing complex shaped elements.







PRODUCTIVITY

With the 5-axis revolver machining head units all necessary tools are always ready-to-use, guaranteeing unrivalled processing speeds.

FLEXIBILITYThe bars worktable has been designed to have maximum modularity according to the production needs. It is possible to fix the Combi, Jig Free and CSR work-piece locking devices, that adapt perfectly to process elements of any shape.

The multifunction aluminium worktable with integrated vacuum system allows optimal work-

INTELLIGENT PROGRAMMING
The Smart Pro CAD/CAM software enables to generate work-pieces and machining operations, optimize tool paths automatically and simulate in a single work environment, reducing greatly programming time.



CNC MACHINING CENTRES FOR DRILLING, ROUTING AND EDGEBANDING

Universal machining centres designed to satisfy any drilling, routing and edgebanding requirement. **The perfect solution for "just in time" production and for making panels that are ready for assembly.** Another top level technological response for satisfying and customising the many requests from today's furniture industry.





SUPERIOR QUALITY: "H80" EDGEBANDING UNIT

One of the highest performing edgebanding units in its category, it can apply edges up to 84 mm high for panels up to 80 mm thick.

PERFECT DRILLING: RO.AX SPINDLES

Zero play during machining with the new RO.AX technology (Rotoaxial spindle technology), the most efficient spindle on the market, with rotation speeds up to 8000 RPM. Reliable and flexible, it requires reduced maintenance (every 1000 machining bours)

ZERO DEFECTS: "SBRINDLE" DEVICE

The SBRINDLE device, which reads the position of the edge on-the-fly, ensures maximum quality even when joining difficult components.

TOTAL CUSTOMISATION: TV FLEXMATIC AND TV MATIC RAILS WORKTABLES

Extremely versatile, wide range of configurations, no compromise in terms of performance and very fast set-up times, with no risks of collisions between the tool and the worktable.

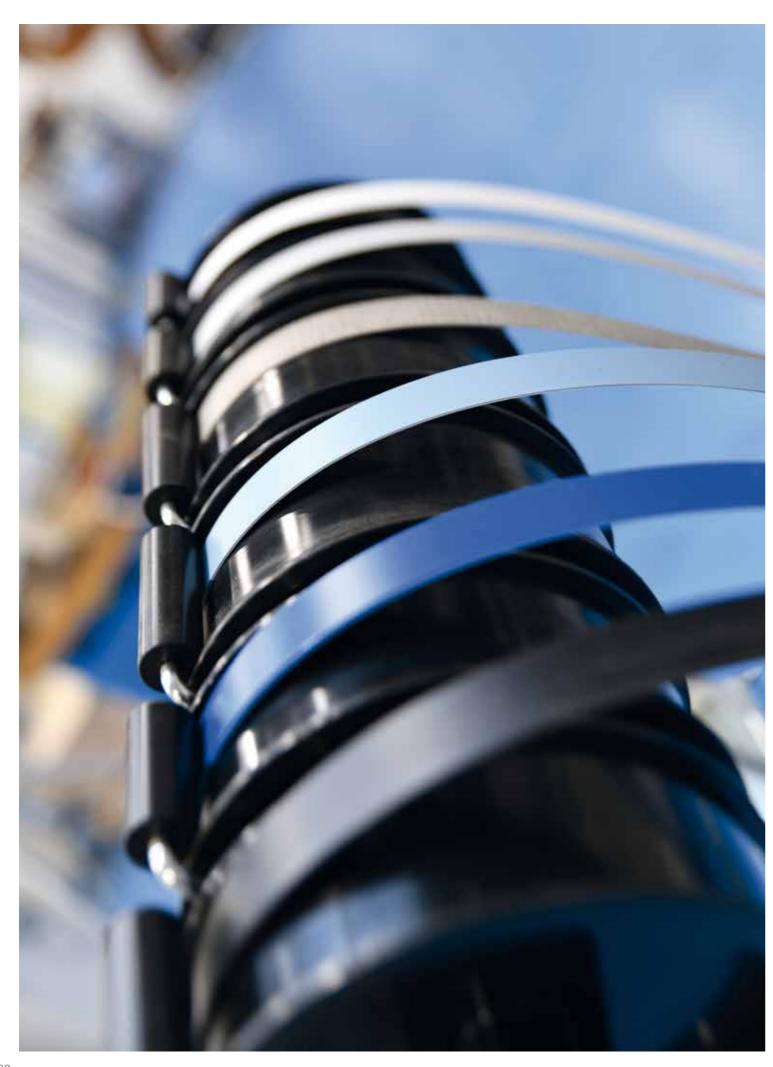
3D WORKTABLE: "HE-PODs"

Unique on the market, it can lift workpieces in order to get best use of the worktable dimensions and to process multiple parts with a single positioning and less tool changes.

EFFECTIVE VERSATILITY: AUTOMATIC CHANGE OF THE PRESSURE DEVICE

Device to automatically change the pressure roller with a 3-position storage also within the same program.

The use of this device allows the application of edges of different material or thickness, even on the same panel.



EDGE BANDERS AND SQUARING EDGE BANDERS

SCM edge banders and squaring edge banders are acclaimed the world over and one of the Group's main strengths. Thanks to its **stefani** and **olimpic** models, SCM can now cover all edge banding needs in the panel machining processes for the furniture industry, from small to large companies.





AUTOMATIC EDGE BANDERS

Thanks to the **olimpic** and **stefani** edge banders, SCM is able to cover all edge banding needs, from small artisans to large industrial companies, guaranteeing precise machining, reliability and efficiency.



SQUARING EDGE BANDERS

The range of SCM squaring edge banders allows for intensive and constantly efficient productions with medium to large batches, that are perfectly integrated in different industrial contexts.



PLANNING HIGH PRODUCTIVITY VOLUMES

thanks to the panel squaring and edge banding with half-line or complete line architecture and automation integration for the horizontal handling of the panel.

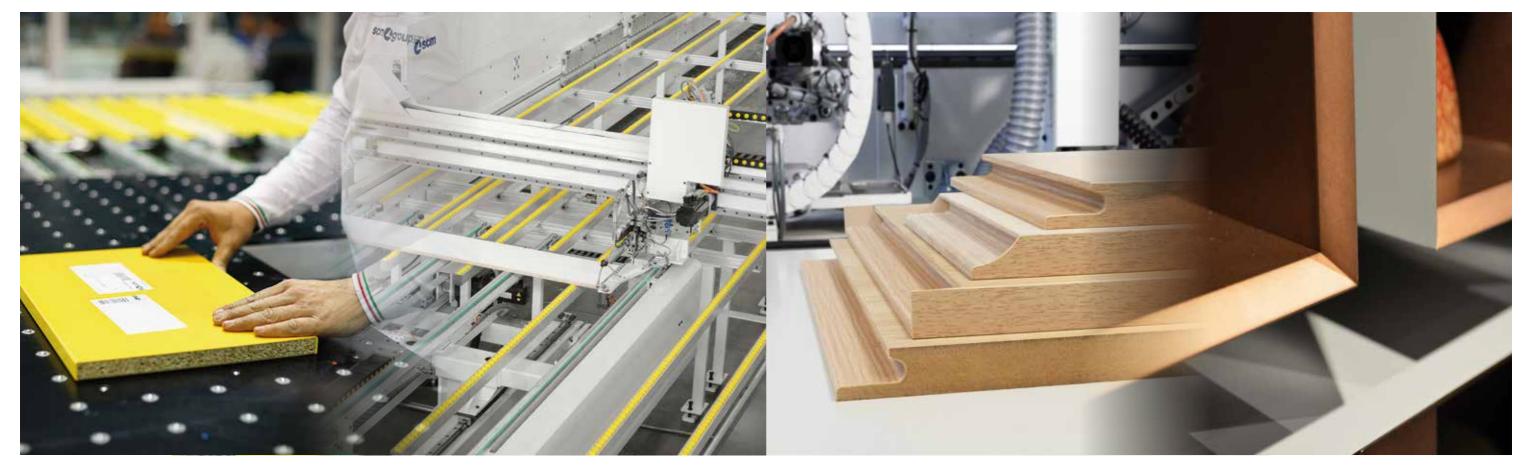
EFFICIENCY AND ERGONOMICS

are guaranteed with the supervised production, integrated in the company network, along with latest generation applications.

MAXIMUM FLEXIBILITY

in the use of different glue types and/or colours. Some devices provide a "just in time" changeover without machine downtimes, others allow a simple management of the heating and preservation of the glue.





FLEXIBLE EDGEBANDING SOLUTIONS

Intensive production with homogeneous batches or Batch 1, that can be effectively and cost-effectively adapted to every production situation.







MAXIMUM CUSTOMISATION

an entire range of solutions for production levels from 400 panels/shift upwards, optimised based on the space available or the size of the panel being machined.

INFINITE CONFIGURATIONS

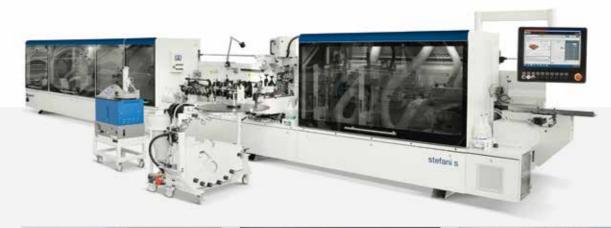
from simple panel return to the operator up to independent cell with automatic robot loading. The configuration possibilities are practically unlimited and adaptable to different production situations and dimensions.

EFFECTIVE PRODUCTION

is ensured by multiple functions available such as the automatic quality control, parallelism and sizing machining, when not machining in nesting mode and the real time management of the glue type and colour.

STEFANISHAPE TECHNOLOGY

SCM's acknowledged solutions for machining shaped panels allow customers to model new shapes and perspectives with unprecedented levels of ease and quality.





SOFTFORMING PROCESS

SCM's leadership in this process is confirmed by the extremely fast set-up times and application precision even with the most demanding materials and the possibility of machining complex shapes on all sides of the panel.



DIRECT POSTFORMING/POSTFORMING

With this process SCM offers the possibility of producing perfectly finished components with no glue leaks, to guarantee protection against humidity and steam.



THE PROCESS FOR DOORS

The technology designed to machine edged doors, available for various production capacities or batch dimensions, ensures the easy production of indoor doors, both sliding and hinged.



BEAM SAWS

SCM beam saws ensure the highest cutting performance thanks to the Group's vast and constantly developing technological know-how.

This wide range of beam saws satisfies the requirements of companies with high production volumes and those looking for a made to measure solution.









LINEAR GUIDES WITH RECIRCULATING BALL SCREW: MAXIMUM LINEARITY AND MINIMUM FRICTION

Increased production capacity with the considerable speeds that can be reached during the feed and return stroke (up to 170 m/min). The centralised lubrication is monitored by the control to ensure a total lack of maintenance.

SAW-SET:

TOOL CHANGING HAS NEVER BEEN SO EASY

In a few seconds the "SAW-SET" device carries out fast and precise tools adjustment due to the electronic setting, allowing an intuitive use of the machine and a productivity increase.

FLEXCUT: MORE CUTS IN LESS TIME

The high performance levels are ensured by the two completely independent pushers. The machine cycle times are drastically reduced thanks to the simultaneous machining of various bars with differentiated cuts. The extreme flexibility is provided by two grippers installed on the mobile unit, one of which that can be excluded, guaranteeing a vast range of the widths of strips that can be clamped.

LOADING PLATFORM: WHEN STURDINESS AND PRECISION MAKE THE DIFFERENCE

The lifting system, as well as exploiting the

loading capacity to the maximum with any material and format, also guarantees a constantly parallel lifting of panels stacks. This ensures that there are no machine down times to achieve maximum productivity.

ZERO-DUST SYSTEM

Device for table cleaning that prevents the accumulation of sawdust. A modular control curtain is activated at every cut by section, in order to limit the dust emission and guarantee a complete evacuation. This allows for optimal cleanliness inside and outside of the machine with no risk of damaging the moving components of the saw carriage.



DRILLING SOLUTIONS

SCM offers a wide range of solutions in the drilling sphere, from batch-1 process to a large versatile production.

This stage of the furniture construction process requires efficient, versatile and robust products that operate with high precision and reduced cycle time.

AUTOMATIC DRILLING MACHINES



CNC DRILLING CENTRES



SEMI-AUTOMATIC DRILLING MACHINES





PERFECT JOINTS: AUTOMATIC READING OF THE WORKPIECE

Any discrepancy between the actual length of the panel and the length set is corrected by the highly precise reading laser allowing for a perfect alignment.

PERFECT DRILLING AND REDUCED MAINTENANCE: RO.AX SPINDLES

Zero play during machining with the new RO.AX technology (Rotoaxial spindle technology), the most efficient spindle on the market.

Reliable and flexible, it requires reduced maintenance (every 1000 machining hours).

CONTINUOUS MACHINING CYCLES: NO SET-UP TIMES

Very short machining cycles and no idle time for the set-up operations. No need of manual interventions to set up the machine between two machining batches.

MAXIMUM PRODUCTIVITY: HIGH LEVEL OF ELECTRONIC AUTOMATION

High productivity and extremely reduced set-up times thanks to the automatic handling and the supports equipped with independent positioning axes.

OPTIMISATION AND CYCLE TIME REDUCTION: SHAPED FIXING CLAMPS

The unique design of these clamps allows the machining even in the clamping zone, in positions inside their area, improving the process cycle.



AUTOMATION SYSTEM

Flexible, modular and easy to configure automation systems

• FEEDING THROUGH ARTICULATED INDUSTRIAL ROBOTS

Ideal for cutting, edgebanding, square-edgebanding, drilling and sorting.



• COLLABORATIVE PROCESSING ISLANDS

Operator and collaborative robot cooperate side by side sharing the work area safely.

Ideal for final assembly and surface finishing.



• FLEXIBLE INTERCONNECTIONS between

machining cells and assembly islands with autonomous mobile robots (AMR). Management and optimisation of the process logistics.



• FLEXSTORE

Boards automatic storage system; producing "to order" in real time at competitive costs.





SYSTEMS FOR TIMBER CONSTRUCTION

Thanks to its continuous technological innovation, SCM leads the timber construction industry with advanced solutions, designed specifically for processing structural beams, X-lam/CLT wall elements and insulating panels.

The use of wood for the construction of large structures such as private, residential and public buildings is growing constantly across the world. Well-known companies of the sector have already selected our oikos range, area range, pmt and routech rx CNC machining centres for their flexibility, precision and speed, to realize their projects.

CNC - MACHINING CENTRES FOR TIMBER CONSTRUCTION







PERFECT QUALITY THANKS TO HIGH PERFORMANCE STRUCTURES

Powerful and extremely robust machine structures are designed to be equipped with the latest generation of machining units, to ensure optimum finish quality and constant precision over time.

6-AXIS TECHNOLOGY FOR GREAT FLEXIBILITY

The innovative 6-axis machining unit of the oikos range allows to process all faces of the element easily, with no rotation or repositioning required. Moreover, the optimized and interpolated movements of the axes make it possible to achieve high productivity levels, while the high power electrospindle allows heavy duty material removal even on very hard

MACHINING A WIDE RANGE OF MATERIALS

The full range of machining operations is possible on a wide variety of materials used in sustainable building projects: GluLam and LVL beams; large CLT wall panels; modular CLT components; curved beams; panels of OSB, gypsum, fibre cement; multi-layer and insulating panels.

SIMPLE MANAGEMENT AND PROGRAMMING

Maestro beam&wall is SCM's specific software for programming and managing the machining centres for timber construction. It is characterised by **external integration** with the main CAD systems of the sector, interpreting files in "btl" format and automatically transforming them into programs to run on the machine. **Programming freedom** and **fast** workflow to produce even complex projects with maximum efficiency. The software also features a nesting function for the optimised production of wall panels.

MAXIMUM ORDERS PROFITABILITY

Maestro beam&wall includes also the 3D **simulator** that allows to test programs on the PC in the office and visualize them in advance i.e. before the actual machining operation.

This results in numerous advantages for the customer:

- Elimination of collision risks, programming errors and downtime
- Calculation of production time and costs.

HIGH PRODUCTIVITY

SCM's machining centres for timber construction can be integrated into automatic production lines, where process automation in the element handling and referencing phases is extremely important



THROUGHFEED MOULDERS

SCM offers a wide range of throughfeed moulders.

Advanced technological solutions to produce window elements, doors, stairs, beads, frames, moulds for furniture, yacht fittings and garden furniture that guarantee flexibility and productivity for small and large production batches.





INCREASED PRODUCTIVITY

The SET-UP system allows the operator to change tools and perform adjustments in just a few seconds, making set-up time up to twenty times faster.

HIGH VARIETY OF PROFILES

The HSK technology enables downtime reduction and finish quality enhancement, with improved ergonomics for the operator.

Tool-holder spindles made of hardened steel cylinders with larger dimensions and double pair of bearings, to ensure rigidity and accuracy.

machine programming intuitive. Clear and precise information are always available, thanks to detailed reports.



SYSTEMS FOR WINDOWS AND DOORS

Thanks to its **long-standing experience in window and door machining technologies and complete process know-how**, SCM is a unique technological partner for both small to medium-sized companies and large industrial groups with a wide range of customised solutions that meet all the production requirements.

MACHINING CELLS FOR WINDOWS AND DOORS

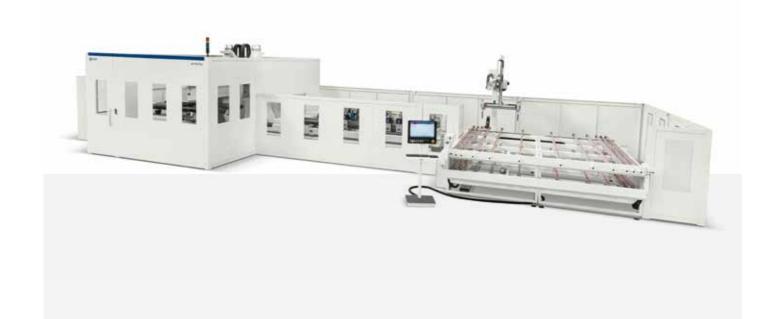


ANGULAR MACHINING CENTRES FOR WINDOWS AND DOORS



WINDOWS AND DOORS INTEGRATED LINES





COMPLETE PROCESS

The work-pieces loading/unloading systems enable the machine to work autonomously, without the continuous input of the operator.

EXCELLENT FINISH QUALITY

The work-piece repositioning, from the internal side machining to the external one, is direct between the clamps, without needing additional devices.

HIGH PRODUCTIVITY

The automatic worktable is equipped with dedicated clamps for the constant holding of the work-pieces.

It is possible to process from 1 to 4 work-pieces in sequence.

NO VIBRATIONS

Unrivalled performance with the fixed gantry structure that enables for high machining speeds whilst ensuring the best accuracy.

RELIABLE TECHNOLOGY

The configurability of the machining units with 4 and 5-axis electrospindles, allows performing all the necessary operations for windows production.

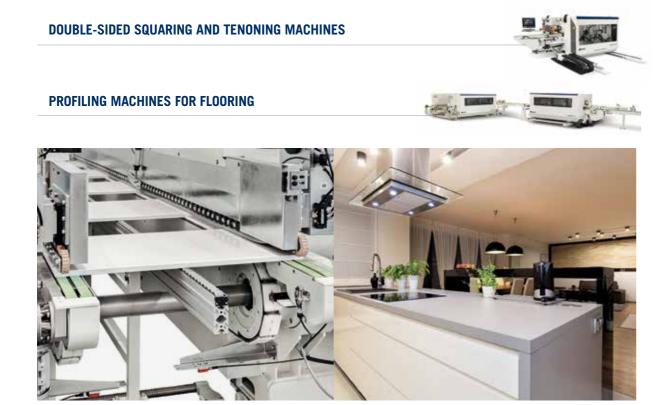
EASE OF USE

The exclusive Maestro active windoor software is able to optimise the working process on the machine.



MACHINES AND SYSTEMS FOR SQUARING, TENONING AND PROFILING

Thanks to the combination of know-how and innovation in the field of squaring and profiling technology, SCM covers all requirements for flooring, coating, doors and windows, stairs, X-lam walls and panel machining in the furniture industry by offering **a complete range of customised and technologically advanced solutions.**



State of the art technology and flexibility are some of the key success factors of the **celaschi** profiling and squaring-tenoning machines, designed for companies requiring perfect machining quality along with high productivity levels or looking for a special custom-made solution.



HIGH PRODUCTIVITY RATES

both in stand-alone and high-productivity in-line integrated version, with the workpiece transport system allowing feed speed up to 200 m/min.

UNPARALLELED FLEXIBILITY

thanks to the quick positioning of the mobile beam and operating units, the automatic tool store and the "Pyramid" software function that allows processing of variable stacks with a single

LONG-TERM EFFICIENCY AND RELIABILITY

thanks to the highest quality of materials, the accuracy of coupling and the automatic lubrication.

FLUID AND PRECISE MOVEMENT

even with demanding machining conditions. Total absence of vibrations and correct hold-down of the workpiece with adjustable pressure beams according to density, dimensions and profile

MAXIMUM PROCESSING ACCURACY

thanks to the high-speed, air or liquid cooled, HSK electrospindles, fitted with special wheels with automatic wear compensation system.

EXCEPTIONAL FINISH QUALITY

on every type of material: solid wood, PVC, fibre cement, rock/glass wool, insulating material, gypsum, etc.

UNLIMITED CONFIGURATIONS

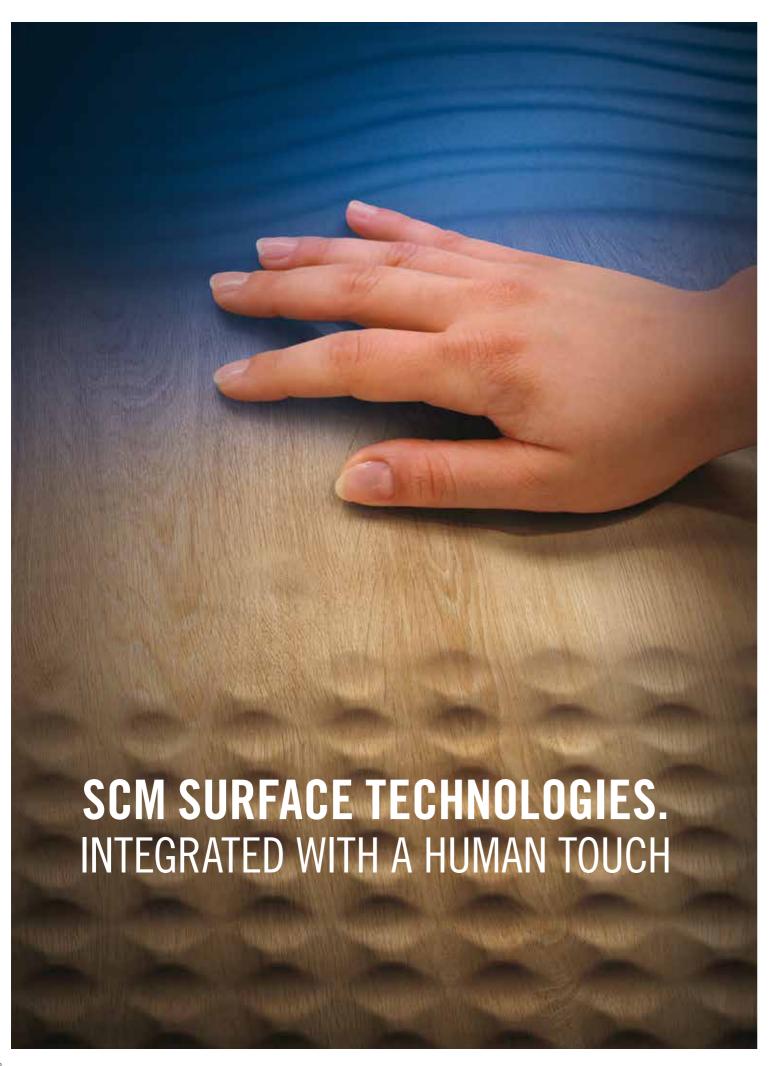
as the number and type of operating units can be selected based on the machining operations to carry out: squaring, shaping, tenoning, profiling, sanding, sizing and grooving.

CUSTOMISATION AT THE HIGHEST LEVEL

through the study and design of customised devices and structures tailored to specific processing needs and in compliance with technical specifications.

ALWAYS AVAILABLE INFORMATION

through the detection and storage of all working variables in the database of the machine, which can also be consulted remotely thanks to the IoT.

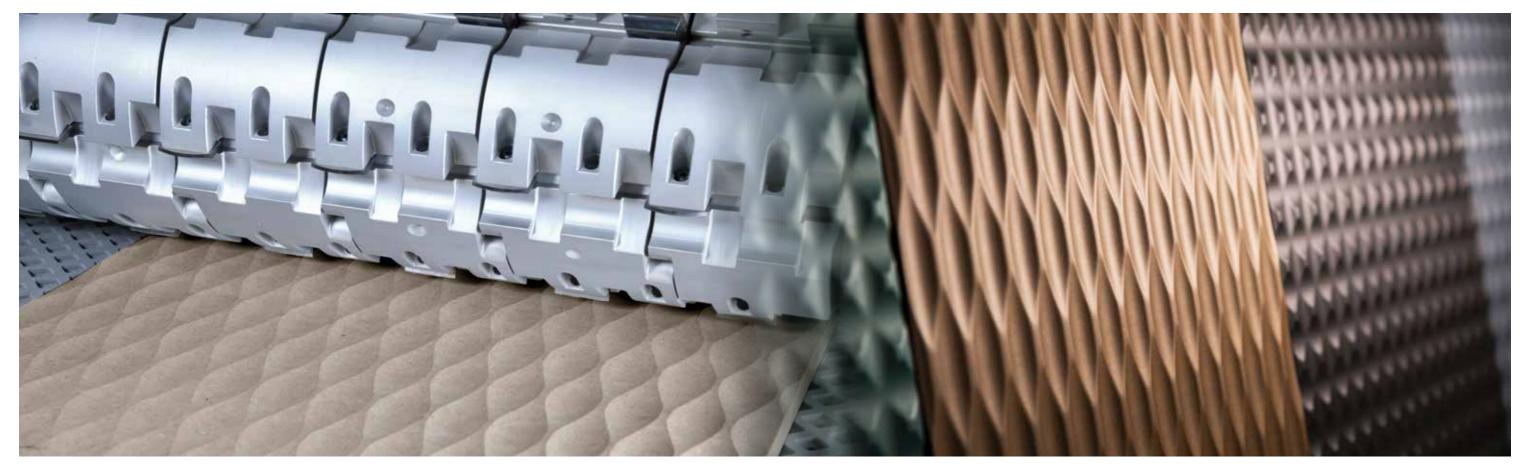


SURFACE TECHNOLOGIES

A UNIQUE EXPERIENCE IN SURFACE TREATMENT.

The wide range of SCM and Superfici solutions for the most complex and customized surface treatment processes.





WIDE BELT SANDERS

SCM solutions with abrasive belts combine versatility, productivity and quality to achieve the highest levels of surface calibration, sanding and customization, creating attractive finishing effects.

SCM offers a wide range of solutions to meet the needs of both craftsmen and industrial scale companies that guarantee long-lasting reliability and performance.

AUTOMATIC SANDING AND CALIBRATING MACHINES



SANDING CALIBRATING LINES



FROM THE MOST COMPACT AND VERSATILE TO THE WIDEST AND MOST POWERFUL

The large number of models available meet every production requirement, from the narrowest and most compact machine model, with 650 mm working width, to the widest and high performance model with 2.200 mm working width, consisting of a sturdy supporting structure with high-power motors, up to 90 kW, to support even the most intensive workloads.

SUPERFINISHING OF CROSSED-GRAINED WOODEN PARTS

The Finesand orbital pad and the Planetary unit effectively remove the scratches on crossgrain caused by the longitudinal sanding belts. They are the ideal solution for the superfinishing process of face frames, kitchen cabinet doors,

passage doors and window frames or with any crossed grained components.

EASY TO USE THANKS TO THE INTUITIVE SOFTWARE INTERFACE

that makes the machine simple and safe to use, even for less experienced operators.

"PWM" VARIABLE PRESSURE TECHNOLOGY FOR "EPICS" ELECTRONIC SECTIONAL PADS

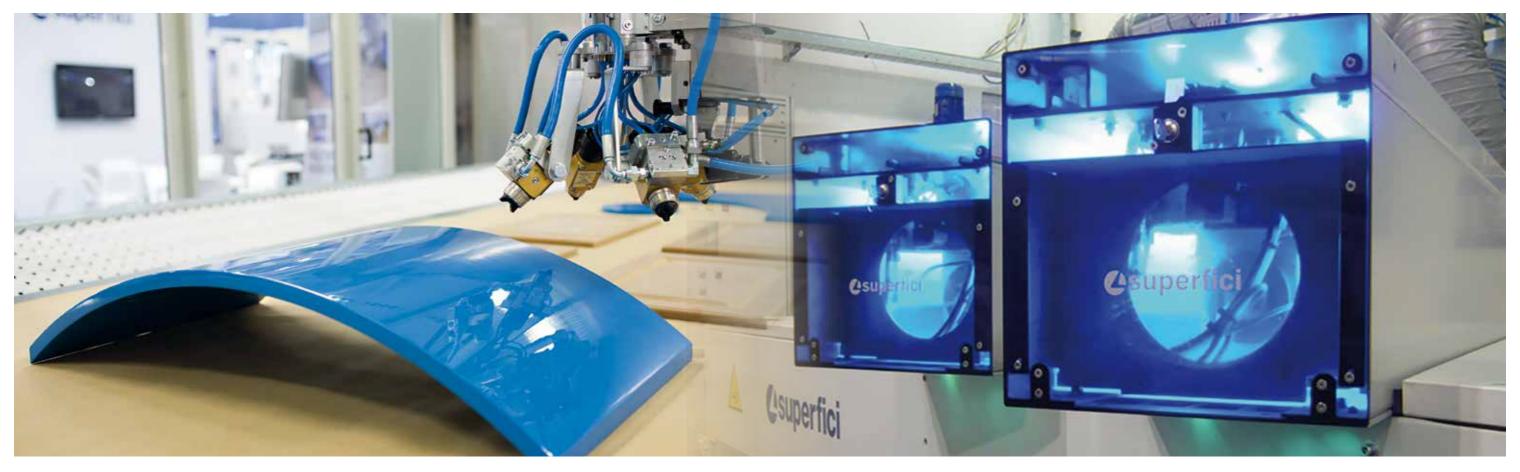
The innovative "PWM" system allows real time changing of the operating pressure on the "EPICS" electronic pad, adapting it to the different panel areas allowing the pad to perfectly sand also panels with uneven thickness.

NO MACHINING LIMIT FOR BOTH PANEL SIDES

thanks to the possibility of integrating a bottom bottom units structure, with a structure with a top units ones, to create a single machine solution. Both machines can be fitted with any working unit, to perform all possible operations.

HIGHLY FLEXIBLE AND SEVERAL DIFFERENT CONFIGURATIONS

The wide range of advanced technological solutions and modular structures, that can be fitted with up to 10 working units, allow a large number of configurations: from the most versatile and flexible to the most customised for specific applications.



A UNIQUE EXPERIENCE IN SURFACE TREATMENTS

SCM's surface treatment technologies offer a wide range of surface processing products that can meet any production requirements. In particular the Superfici coating lines include complete spraying systems, automatic or robotic for both paints and adhesives, with vertical, linear or UV driers; complete roller or curtain coating lines; panel printing lines and coating systems for door/window frames and three-dimensional parts.

• ROLLER COATING LINES FOR FINISHING FLAT PANELS

Complete solutions for roller coating with the highest precision, with advanced UV driers.



• DIGITAL PRINTING

Finishing lines with integrated digital printing for highly customised decorations and finishes, even on small lots.



• SPRAY PAINTING

Off-line paint spray machines or solutions integrated into fully automated lines, offering high production capacities and process flexibility.



• SPRAYING ROBOTS

Lines with cartesian robots with one or two arms, both for painting and for glue application or anthropomorphic robots for the highest application flexibility.



• ADHESIVE APPLICATION SYSTEMS

Solutions for applying adhesive spray to meet various production capacity requirements.

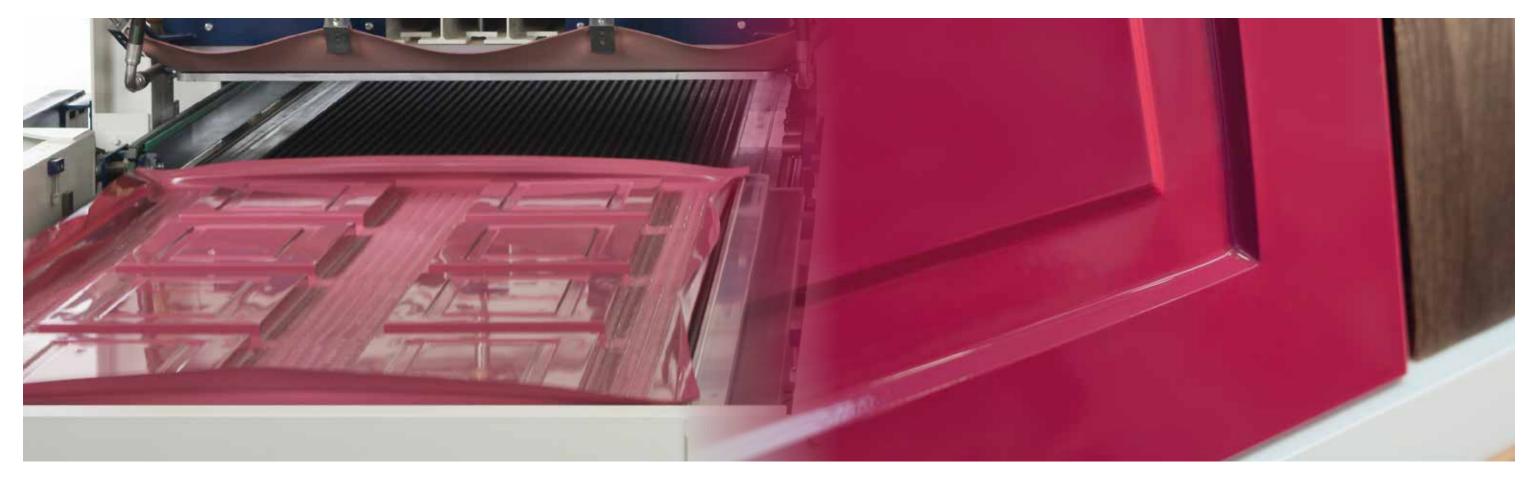
The sophisticated robotic systems stand out.



• 3D COATING

Complete coating systems for three-dimensional parts and door/window frames with application by hand, reciprocator or robot, and air, infra-red or microwave drying.

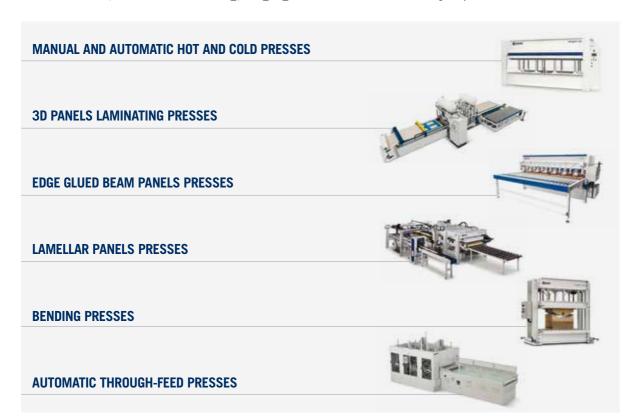




PRESSES

SCM is even more oriented to cover all market segments by increasing and totally updating the scm sergiani presses range, guaranteeing maximum surface and gluing quality and a wide choice of applications.

Scm sergiani presses due to their high precision and production versatility are able to meet the requirements of manufacturers producing laminated flat or moulded panels, doors, kitchen cabinet doors, solid wood flooring, edge glued beam and multi-layer panels.





SUPPORTING STRUCTURE

To guarantee the highest level of resistance and rigidity in each processing phase.

HIGH VERSATLITY

Production line solutions to be configured according to customer needs.

ELECTRONIC CONTROL OF ALL MACHINE FUNCTIONS

Via digital operator control panel with Siemens touch screen.

INTEGRATED SYSTEMS FOR HIGH PRODUCTIVITY

Panel composition lines with different automation solutions, from traditional configurations up to completely automatic plants without line operators. The in-line machines are programmed, managed and controlled by SCM software in order to schedule production and batches programs, e.g. based on the final customer order. Possibility of using barcodes.

"BATCH 1" PRODUCTION LINES

With two or more parallel multi-daylight presses that are fed, loaded, unloaded and controlled by SCM software.

The pressure, pressing time and temperature can be set for each panel or group of panels, depending on the dimensions and features of the panels to produce.



ASSEMBLY

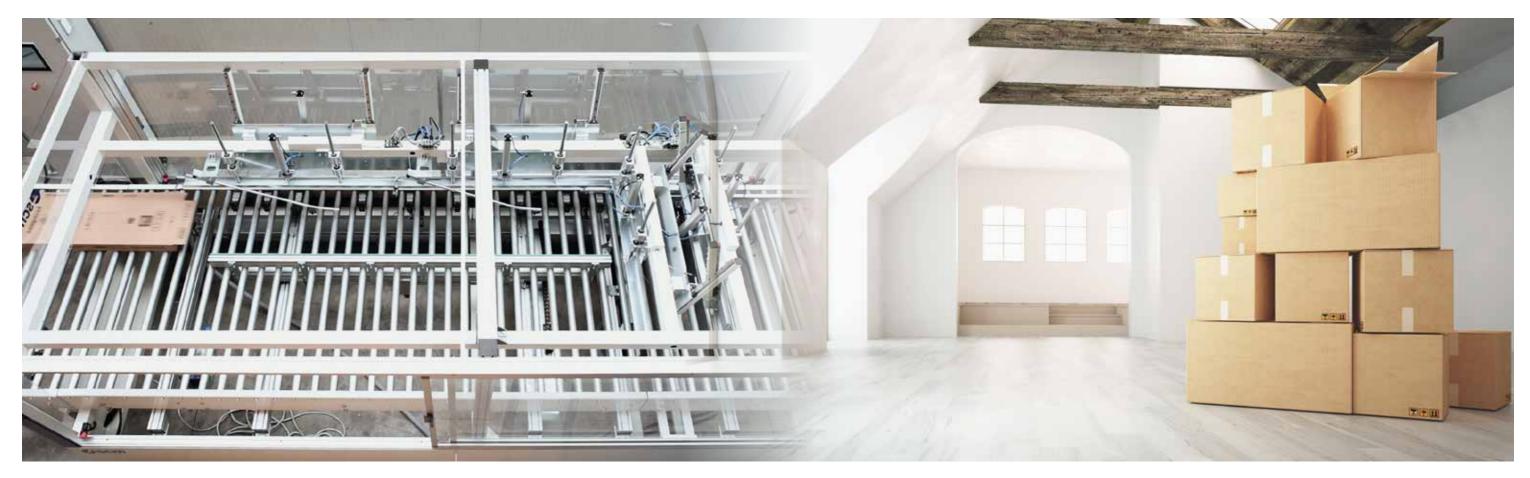
SCM offers a complete range of clamps for furniture cabinets, doors and windows assembly, starting from all of their individual components. SCM solutions are ideal for both craft woodworking and industrial processes. Turn-key assembly lines in partnership with a single supplier that always meet customer needs and ensure reliability and ease of use while maximising productivity.

CLAMPS FOR FURNITURE

CLAMPS FOR DOORS AND WINDOWS







PACKAGING

End-of-line machines and packaging systems for cardboard, stretch film and shrink wraping polythene (PE). SCM develops tailor made packaging solutions that are ideal for all kinds of products offering optimal protection and minimising transport damages. The automatic packaging process maintains the flexibility of the manual packaging but, at the same time, increases productivity and final quality.





COMPATIBILITY WITH "FEFCO"
CONFIGURATIONS
Automatic solutions for different configurations of cardboard boxes (packaging models from the "FEFCO" international standard catalogue) for disassembled furniture or single cabinets

SOLUTIONS DESIGNED TO BE INTEGRATED DURING THE WHOLE PRODUCTION PROCESS

Possibility of integration in fully automatic production lines with 3D product recognition, automatic cut of the flat right-sized box, box forming and palletizing.

PRODUCTIVITY, FLEXIBILITY, CONVENIENCE

High productivity rate also with different size products (batch one), optimisation of required operators number.



TENONERS AND MORTISERS

The **balestrini** tenoners and mortisers are CNC sectorial machines ideal for the production of chairs, tables and kitchen doors.

The wide range is designed to meet all the requirements of the market: from small companies to large industrial groups.





MAXIMUM PRODUCTIVITY

The balestrini tenoners and mortisers meet any production requirement, from batch one to mass production.

NUMEROUS OPERATIONS POSSIBLE

Tenoning, mortising, cutting off and drilling has never been so simple and effective.

PERFECT MACHINING QUALITY

The anti-splintering cycle controlled by NC allows high speed machining, ensuring an excellent finish quality of the element.

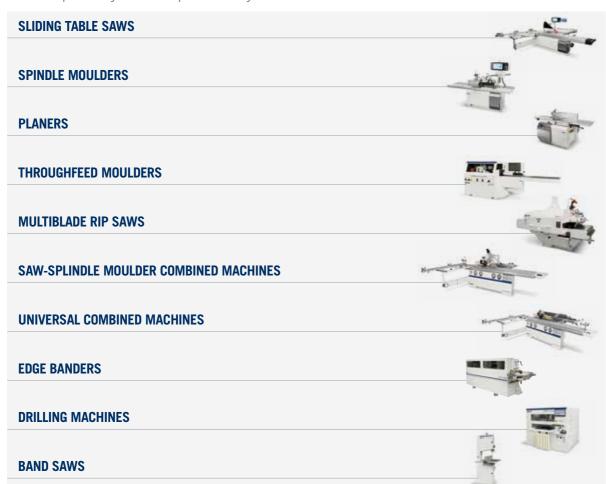
EASY TO USE

The balestrini machines are fitted with a single software platform, Smart Pro, with a user-friendly operator interface, for an intuitive and quick programming, thanks also to the default macros.



JOINERY MACHINES

SCM joinery machines are the result of continuous development and the sum of the many skills acquired by the Group over the years.



Our range of machines is the largest on the market and includes automatic and manual machines that stand out for their advanced technology and design, thereby allowing us to satisfy the needs of all our customers from craft carpenters creating highly customised products to large-scale industries.







SQUARING

Double blade tilting +/- 46°: cutting without compromise.

The processing is safer and more comfortable as it is possible to **cut workpieces with no need to rotate or turn them over or to use shapes**, always safe-guarding the veneered side of the panel. The cuts in both tilting angles can be performed easily and without compromises, even on panels with a shaped and profiled surface.



PLANING

"Xylent" spiralknife cutterblock.

The 3 spiralknives give an exceptional finish. Reduced noise during machining provides a more comfortable working environment. It also improves the dust extraction due to the production of very small chips. Each cutter has 4 tips which can be rotated into the cutting position when worn. Therefore increasing the production life of the cutter block before knives require replacement.



ROUTING

Machining centre technology service for the woodworker.

Absolute machining precision and absence of vibration due to the perfectly balanced structure of the electrospindle.

The electrospindle's direct drive eliminates maintenance procedures common with conventional belt driven systems.



Unique level of quality for artisans.

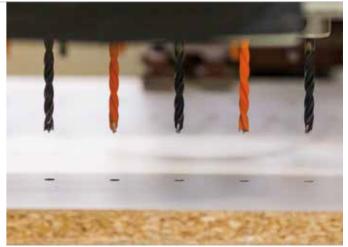
New combined end cutting-rounding unit with rigid structure for unique quality processing in its market segment. Replacing the end cutting unit does not increase the machine overall dimensions, allowing a substantial reduction of costs, compared with traditional solutions.



DRILLING

Effective.

The drilling head positioned above the panel allows a precise machining which can be verified in the panel assembly phase: any differences in thickness are on the inside of the cabinet.



SANDING / RUSTICATION

Quality and precision.

Two structuring units with independent mechanical adjustment for a superior quality weathered look.





INTEGRATED SYSTEMS FOR THE WOODWORKING INDUSTRY

LEAN CELL

Integrated production and logistics for the 4.0 plant of the future. Up to 500 pieces/shift with 2 operators.

Mass customisation and simple management.







THE MOST ADVANCED SKILLS AND KNOW-HOW IN THE

A technological world leader in processing a wide variety of materials: wood, plastic, glass, stone, metal and composites.

The Group companies, operating throughout the world, are reliable partners of leading companies in various market sectors, including the furniture, construction, automotive.

INDUSTRIAL MACHINES

Stand alone machines, integrated systems and services dedicated to the machining process of a wide range of materials.



Woodworking technologies



Technologies for machining composites, aluminium, plastic, glass, stone and metal

FIELDS OF MACHINERY AND INDUSTRIAL COMPONENTS

Scm Group coordinates, supports and develops a system of industrial excellence in 3 large highly specialized production centres employing more than 4.000 workers and operating in all 5 continents.

INDUSTRIAL COMPONENTS

Technological components for machines and systems produced by the Group, third parties and the mechanics industry.

HITECO

Les

4steelmec

4scmfonderie

Electro-spindles and technological components

Electrical panels

Carpentry and mechanical processes

Iron castings

SCM GROUP AT A GLANCE

700
Million/Euro
of consolidated turnover

4.000
people
in Italy and abroad

3 main industrial centres

Presence in 5 continents direct and capillary

7% of turnover invested in R&D

