This year, the SCM Group celebrates its 50th year at Ligna: its first show in Hannover dates back to 1961. In this year's 2011 show, the SCM Group will be present in three halls with a total area of 3000sq. metres:

- **Hall 11** where there will be exhibited technologies dedicated to the joinery industry, represented by the brands SCM and Minimax.

- **Hall 16** a booth dedicated to high technology for house building wood components

- **Hall 25** where there will be exhibited machinery for the furniture and housing industries, represented by the brands SCM, Superfici, Sergiani, DMC, Stefani, Gabbiani-Mahros, Morbidelli, Rem, CPC
Industrial Division

GABBIANI_Mahros Galaxy 3 130 - Flexstore
SERGIANI SM CNC 35 - 25
SUPERFICI MAGNUM 3
SUPERFICI Valtorta Bravorobot
SUPERFICI Roller coating line Valtorta roller coater
SUPERFICI Edge coating unit Valtorta Laccabord
SUPERFICI Finishing plant for windows frames
DMC System T5 1350
DMC System T7 1350
STEFANI ONE TOUCH D
STEFANI Solution with INFEED DEVICE
MORBIDELLI UNIFLEX HP
MORBIDELLI UNIVERSAL HPL
MORBIDELLI M 800
Rem OVER
CPC SAP 2LARM
SCM ACCORD 40 FX
SCM ACCORD 30 FX
SCM DOGMA
SCM INTEGRA
SCM SUPERSET NTPL comp.31
SCM TOPSETMASTER
Communications

LIGNA 2011

Industrial Division

New single beam panel saw series offers high performance in quality cut finish and speed working. Designed for the medium-large furniture company.

Time saving features which ensure fast cutting cycles include: a new electronically-controlled carriage Hi-tronic.

The essence of the machine is the modular Flexcut system that handles highly complex cutting patterns in very short cycle times.

The new Galaxy 3 series offer a wide range of optional tools for plastic, acrylic and synthetic material cutting. High performances are granted by: inverter engine, adjustment of carriage feed speed and blade rotation, double clamps.

With its sturdy structure, Galaxy 3 can be integrated with loading-unloading systems.

Technical features Galaxy 3 1130:
- Cutting dimensions 4,500x4,300 mm
- Max blade protrusion 130 mm
- Max blade diameter 450 mm
- Max blade motor 8 kW (50 Hz – 25 HP)
- Max speed saw carriage 170 m/min with prismatic guide
- Max speed Pressure beam 135 m/min with prismatic guide
- Electronic carriage with HI-TRONIC technology
- FLEXCUT unit for different simultaneously cut
- Pressure beam with displacement on prismatic guides
- AKE mechanical docking of the blades
- Powered side alignment on motorized pressure beam
- Different pressures

Technical features - FLEXSTORE
- Variable configuration of number station – available surface up to a 16x30 m
- Panel Thickness: 10 ÷ 60 mm
- Panel Lenght: 2,440 ÷ 4,500 mm
- Panel Width: 1,200 ÷ 2,440 mm
- Max panels weight: 250 Kg
- Holding arm with 3° of freedom + rotation
- Vacuum loading arm with electronic adjustment depending on the panels dimensions
- Device for automatic detachment of the panels
- Check device for the detachment of the panels
- Rest management
SM CNC 35 - 25
Automatic frame press for windows and doors with electronic control

Assembly of windows or doors with open tenon joints or draw pins.
Manual cycle - semi-automatic cycle by impulses - automatic cycle - cycle for pre-finished frames.

EQUIPMENT AND ADVANTAGES
Vertical and horizontal automatic positioning at the programmed level of tightening, through hydraulic axis with electronic control with setting of the limit pressure threshold.
The hydraulic system eliminates the defects and inaccuracy of the worm screw systems, for a higher reliability and life, precision of positioning, reduction of wear and of maintenance.
Programmable automatic opening.
Positioning and automatic locking of the lower beam.
Right side squaring fences independent and revolving for trapezoidal - triangular frames.
Flatness electronic control in the movement of upper crossbar and squaring fences.
Independent programmable vertical and horizontal pressure.
Pneumatic locking devices of stiles and rails: to avoid the pre-assembly.
Bars for shutters with fix or variable pitch (guide for interchangeable bars).
Operator panel touch screen 7” colour monitor with recording of working programs, Interface for data transfer from customer’s PC and complete diagnostic.
No. 4 versions and wide range of available optional for different types of work.

Technical features
Useful dimensions 3.500 x 2.500 h mm
Max vertical thrust 14 Ton.
Max. horizontal thrust: 6 Ton.
AUTOMATIC SPRAYING MACHINE MAGNUM 3

the only praying machine with:
- independent reciprocators with possibility of offset adjustment of the spraying arms
- multiple belt cleaning units with possibility of separate recovery of different lacquer products.
- automatic colour change software integrated in the main machine control.
Valtorta Brorobot:

The 5 axes robotic spraying plant for panels with:
- new highly flexible and high performing software
- high capacity spraying arm
- integrated quick colour change control software
- cabin and pressurisation system expressly studied for top qualities.
Roller coating – VALTORTA Roller coater

Machine presented with electronic control.

Main highlights:
- Head lifting and roller coating head opening on precision linear guides
- High precision top level reducers
- Constant pressure control between doctor roller and application roller
- PLC control with possibility of memorizing the working recipes.

UV SUPERCURE

UV modular units with the new electronic control and power supply system SUPERCURE.

This achieves a higher stability and efficiency of the irradiation, together with a lower power consumption.

The line will be demonstrated with a matt UV top coat on distressed parquet flooring stripes, previously prepared with various staining effects.
EDGE COATING UNIT VALTORTA LACCABORD
A net belt application unit will be exhibited so to be able to show this application technology.

FINISHING PLANT FOR WINDOW FRAMES
Overhead conveyor section with buffer and microwave drying area. The system is a demonstrative plant and it will be steadily exhibited in the area dedicated to window frames production.
SYSTEM T7 1350

Calibrating and sanding centre
Equipped with 7 main units, the new System T7 1350 represents the most advanced solution available today for the processing of kitchen cabinet doors and windows frames, both assembled and disassembled: from the calibration straight to the superfinishing, in a single pass through the machine.

Main equipment
- Contact roller units equipped with heavy pressure bars for windows processing
- Unique planetary units (patented), for multi directional sanding of rails and styles
- Counter-rotating sanding brush rollers, with helicoidal slots for the abrasive strips
- Vacuum hold-down table for small pieces processing, with electric fan embedded in the machine frame
- Constant pass-line from the floor, for integration in automated production lines
- Total management of the machine through “Hydra PC” control panel with 17” touch-screen

Technical features
- Working width: mm 1350
- Min/max working thickness: mm 3 ÷ 200
- Feeding speed: m/min 3 ÷ 18
- Constant pass-line: mm 900
SYSTEM T5 1350

Sanding and finishing modular centre
Equipped with the most innovative technologies developed by DMC, the new System T5 1350 delivers excellent performance in any sanding and finishing operation.

Main equipment
Crossbelt units fitted with 9500 mm sanding belts
Contact roller unit with 400 mm diameter roller
Superfinishing units with “EPICS” electronic sectional pad and chevron belt
Patented “PWM-3” system for the automatic adjustment of the multiple working pressures of “EPICS” pads
Unique planetary unit (patented), for multi directional sanding
Vacuum hold-down table for small pieces processing, with electric fan embedded in the machine frame
Constant pass-line from the floor, for integration in automated production lines
Total management of the machine through “Hydra PC” control panel with 17” touch-screen

Technical features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working width</td>
<td>mm1350</td>
</tr>
<tr>
<td>Cross sanding belts length</td>
<td>mm9500</td>
</tr>
<tr>
<td>Longitudinal sanding belts</td>
<td>mm3250</td>
</tr>
<tr>
<td>Constant pass-line</td>
<td>mm900</td>
</tr>
</tbody>
</table>
Communications

Single-sided edgebander One Touch D

The art status of edging technology for organized industry finds its place in 8 metres of machine layout, with solutions in the van, patents and a new software of third generation with icons.

* FULL TOUCH automatic processing of two radiuses and infinite thin edges and solid wood.
* One panel batch processing included
* Intuitive software with interface in colour and images with 3D preview and ultra-rapid programming.
* Logic of thinking to "what" to do and not "how" to do
* Hot melt glue use
* HYDRO LOCK tools for pre-milling unit with reduce sounding emissions and immediate changing.
* EPP, Eco Power Pack, with bent stand-by, computer animation for "energetic saving" state, intelligent closing of the suction hoods for a reduction of exhausted air till 60%, "ED SYSTEM" optimized chip suction flow, "Opti-Cut" precision edge feeding and rear cut
* Easy Size device for the regulation from NC of material removal
* Patented MULTIEDGE device for instantaneous processing change on corner rounding and edgescraping units
* X-GRINDER patented device for the grinding of the scraps produced by edgescraping unit
Single-sided edgebander SOLUTION with INFEED DEVICE

Sufficient technologies for an industrial production that is also differentiated and with quality standard which are beyond the custom find place in 11 x 7 metres of machine layout.

* new look
* FULL TOUCH automatic processing of two radiuses and infinite thin edges
* One panel batch processing included
* EPP, Eco Power Pack, with bent stand-by, computer animation for “energetic saving” state, intelligent closing of the suction hoods for a reduction of exhausted air till 60%, “ED SYSTEM” optimized chip suction flow, “Opti-Cut” precision edge feeding and rear cut
* Easy Size device for the regulation from NC of material removal
* Semiautomatic infeed device EASY ORDER S for on size panel processing
* new antichipping + double hogging unit for high bases with V-SYSTEM technology
* New PANEL SUITE gluing unit, being first on the market to allow contemporary equipment of hot melt glue technology, polyurethane glue technology with Slim Line technology and Laser technology
* new end trimming unit with proportional valves
* new “high level” fine trimming unit
* Patented MULTIEDGE device for instantaneous processing change on corner rounding and edgescraping units
* new “high level” edgescraping unit
* X-GRINDER patented device for the grinding of the scraps produced by edgescraping unit
Communications

Uniflex HP

New flexible working centre for boring, routing and hardware insertion performances able to assure high customization and high productivity. The new Uniflex HP is equipped with a boring head with 14 spindles (11x + 3y) and numerical control to increase the boring potentiality assuring in this way high productivity and flexibility.

Machine equipped with

n° 2 lower and upper boring head
Spindles:
96 indep. Vertical (46+46)
36 indep. Horizontal (18+18)
n° 2 integrated saw blade
6,6 kW electrospindle with HSK 63 tool chuck

Technical features

- X axis working area 3000mm
- Y axis working area 1300mm
- Max workable panel 80mm
- Electrospindle 6.6KW (9HP) in S1 – rotation speed 1000 - 24.000 rpm
- Spindle rotation speed 2000 – 8000 rpm
- Diam max saw-blade 350mm
Universal HPL

Working centre for complete machining of profiled panels together with the application and the finishing of the edges, created for shop, office fitters and interior designers who want to work order by order. Universal Hp thanks to its wide range of configurations, (5 axes motor) to the new glue system that applies the glue directly on the profile of the panel.

The new gantry structure motorized both on the rear and front side allow to reach

Machine equipped with

Working table with 8 TVM supports and digital display
Boring head : 26 indep. Spindles
Main electrospindle Unit at 4 axes with 13kW power and tool chuck e HSK 63F and dedicated RAPID tool change at 10 positions
Rear Tools room at 18 positions
Coils grib 2 positions

Technical features

X working area 5020mm
Y working area 1905mm
Panel passage 350mm
Electrospindle 13kW (18HP) in S1
speed rotation 1000 - 24.000 rpm
Spindle speed rotation 2000 – 8000 rpm
Max diam. Saw-blade 350mm
AUTHOR M800

Wide range of 3 - 4 and 5 axes working centres with various possibilities of configurations to satisfy any “customized” boring requirement. Thanks to the possibility to manage two electro-spindles, both of which equipped with two Rapid Tool Change System, the Author M800 series is the right solution for those customers demanding machines with high productivity efficiency.

This range of machines disposes of two new 5 axes routing units of 15 kW at 24,000 rpm.

Machine equipped with:
- Working table with 8 TVM supports and digital display
- Boring head: 26 indep. Spindles
- Main electrospindle unit at 4 axes with 13kW power and HSK 63F tool chuck and dedicated RAPID tool change at 10 positions
- Rear Tools room at positions
- Coils grib 2 positions

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Technical features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>X working area</td>
<td>5020mm</td>
</tr>
<tr>
<td>Y working area</td>
<td>1905mm</td>
</tr>
<tr>
<td>Panel passage</td>
<td>350mm</td>
</tr>
<tr>
<td>Electrospindle</td>
<td>13kW (18HP) in S1</td>
</tr>
<tr>
<td>Speed rotation</td>
<td>1000 - 24,000 rpm</td>
</tr>
<tr>
<td>Spindles rotation speed</td>
<td>2000 – 8000 rpm</td>
</tr>
<tr>
<td>DIAM. Max saw-blade</td>
<td>350mm</td>
</tr>
</tbody>
</table>
These working centres, thanks to the machining of the panels in vertical position, have been designed to better optimise the spaces in the factory, guaranteeing the high standard of quality and accuracy performances. Dedicated to producers that work order by order, Over working centres are able to perform all the traditional working such as boring, routing, cutting and any kind of hardware insertion on each side of the panel and simultaneously on the main faces, installing mirror opposite units.

Machine equipped with 5.5kW electrospindle with 18,000 rpm max speed
n.° 5 types of inserting dowels
Screw bushes
Pressure hinges
Drawer jointing puffers
Technical

- Workable panels
  - Length: 250mm – infinite
  - Width: 20 – 1300mm
  - Thickness: 15 – 100 mm

- Speed axes:
  - Track piece pieces: 96 mt/min
  - Upper vice: 60 mt/min
  - Horizontal vice: 42 mt/min
The new through-feed hydraulic cabinet clamp model SAP 2L ARM is a machine needed to make the final dowel-jointed box assembly by means of hydraulic pressure over the box’s sides. This machine is necessary to who is producing assembled furniture box, whatever is the box kind (kitchen, bathroom, office furniture box).

Beyond the hydraulic pressure, the box perfect squaring is obtained by means of a rack and pinion system in order to get the best parallelism between clamping elements of the machine. The vertical and horizontal pressures and clamping cycle are adjustable on panel control according to the type of furniture to be assembled, by means of a dedicated software installed on a Panel PC in the main switchboard. Safety photocells barriers on both sides in order to allow boxes manual stapling.

TECHNICAL SPECIFICATIONS (standard machine)

- Installed power: kW. 2.5
- Independent Switchboard
- Working sizes:
  - Max. capacity: mm. 2300 x 1100 x 650 wide
  - Min. capacity: mm. 250 x 250 x 250 wide
- Speed: 16 Mt./min.
- Working height: mm. 600
COMMUNICATIONS

LIGNA 2011

ACCORD 40 FX

CNC working centre with "Gantry" structure able to assure highest levels of precision.

The 5 axes operating unit "Prisma T", characterized by an high power and low speed of rpm, has been designed for the traditional machining of solid wood.

"Matic" working table allows in short times the total automatic positioning of the vacuum cups and clamps.

The mixed safety device "Bumpers+ Photocell" optimizes the dimension of the pieces during the pendulum machining allowing to the operator an easier access to the working table.

Technical features

- X axis working area: 5020mm
- Y axis working area: 1905mm
- Panel passage: 350mm
- Z axis stroke: 550mm
- Electrospindle power: 13 kW (18 hp) in s1
- Electrospindle chuck: HSK 63 E
- Tools available: 48
- Vacuum capacity: 25 m3/h
ACCORD 30 FX

CNC working centre with “Gantry” structure able to assure highest levels of precision.

In addition to the main 5 axes “Prisma K” compact and flexible, the machine is equipped with innovative “BRC” unit, that allows to execute in an easy quick way the traditional operation of the window and frames process as cutting/routing/boring.

“Pilot” working table guides the operator during the phases of clamps and vacuum cups positioning, checking the real positioning avoiding any kind of error.

The mixed safety device “Bumpers+ Photocell” optimizes the dimension of the pieces during the pendulum machining allowing to the operator an easier access to the working table.

Technical feature

- X axis working area: 3680mm
- Y axis working area: 1680mm
- Piece passage: 250mm
- Electrospindle power: 11 kW (15 hp) in s1
- Electrospindle chuck: HSK 63 F
- Tools available: 36
- Vacuum capacity: 25 m3/h
DOGMA

CNC integrated working centres for doors and windows

Ideal solution for small and medium-sized companies requiring flexibility, providing the latest technology and quality.

It is equipped with boring/routing unit that complete the pieces in all the accessories machining.

The loading positioning (typical of SCM) and panel return system, allow the operator to reach an ergonomic position to follow all the operations.

Technical features

<table>
<thead>
<tr>
<th>Minimum length (tenon inside)</th>
<th>200mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. working length</td>
<td>3000mm</td>
</tr>
<tr>
<td>Min./max work piece width</td>
<td>40÷200mm</td>
</tr>
<tr>
<td>Min./max piece thickness</td>
<td>40÷140mm</td>
</tr>
<tr>
<td>Tenoning inclination</td>
<td>+/- 60°</td>
</tr>
<tr>
<td>Feed speed of tenoning carriage</td>
<td>0÷12m/min.</td>
</tr>
<tr>
<td>Profiling feed speed</td>
<td>4÷10m/min.</td>
</tr>
</tbody>
</table>
INTEGRA

Modular and flexible cell, for the machining of doors and windows in pre-finished and not; independently from the kind of joint, shape and hardware used. Integra is fed by “PICKER”, a system that allows to load/unload up to 20 pieces without the presence of the operator. During the working the machine can execute in masked timed the loading and unloading, overlapping such phase to the: Tenoning, profiling and boring/routing. Combiflex work table assures the better clamping of the piece at the change of the profile or of the section, furthermore it is possible to process from 2 to 8 pieces (depending on the composition) simultaneously even with different piece dimension, (length, width, high).

INTEGRA can be composed in function of the piece dimension productivity required (up to 75 window/shift).

Technical features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min/max length</td>
<td>210÷3200mm</td>
</tr>
<tr>
<td>Min/max width</td>
<td>30÷220mm</td>
</tr>
<tr>
<td>Min/max pieces thickness</td>
<td>20÷100mm</td>
</tr>
<tr>
<td>Working field under the table</td>
<td>110 mm</td>
</tr>
<tr>
<td>Working high</td>
<td>1020mm</td>
</tr>
</tbody>
</table>
Superset NTPL

Superset NTPL is the range of Throughfeed Moulder from SCM for medium and large-sized woodworking.

It has been developed to provide an extremely effective response to all customer requirements in terms of versatility: high technology and ease of use with a limited investment.

The rigidity of the structure allows to obtain an high processing finishing; furthermore the HSK tool chucks grant an high technology to this machine.

The electronic control “mobile 10” of new generation, allows an easier and quick programming of the machine, reducing at the minimum the error of the operator.

Technical features

- min/max length (finished section) 15÷240mm
- min/max thickness (finished section) 6÷200mm
- Motors power 7,5 kW
- Axial adjustment for vert. Spindles from worktable 75mm
- Axial adjustment for vert. Spindles from right guide 45mm
- Electronic axes for the positioning of the units n. 12
TOPSET MASTER

Topset Master is a strong and powerful automatic Throughfeed Moulder suitable for heavy duty machining such as constructional beams, large dimensional frames, parquet flooring and components and elements for wooden building sector.

Technical Features

- Min./max length (finished section) 25÷305mm
- Min./max thickness (finished section) 10÷200mm
- Feeding speed 6÷60m/min.
- Horizontal motor power 15 kW
- Vertical motor power 11 kW
- Axial adjustment for vert. Spindles from worktable 75mm
- Axial adjustment of horizontal spindle from right guide 45mm
- Aut. Sharpening device for vert. spindles N°2
- Vert. Spindles with HSK technology N°2
Hall 16
At HALL 16 we will be present with a booth dedicated to high technology for house building wood components.