Machining centre with modular composition of new generation for the production of windows, doors, stairs, solid wood elements and for all those processes that require high level machining, while maintaining supreme standards of accuracy and finish quality.

- **TOTAL FREEDOM OF USE**
  powerful, reliable machining heads with 5 interpolating axes made for any use, even the most heavy duty.

- **TOP QUALITY FINISH**
  machining with maximum precision on the entire machining area, thanks to the rigid mobile portal structure.

- **THE HIGHEST LEVEL OF PRODUCTIVITY**
  the down-times are minimized, the replacement of the tool occurs in only 5 seconds with the device “Mach 5”.

- **FAST AND ACCURATE SET-UP OF THE TABLE**
  the motorized bars Matic and all supports of the table moving simultaneously with great precision.
accord 40 fx

**technological advantages**

**NO VIBRATION**
**EVEN HIGH SPEED**
always the maximum precision even in the presence of large areas of work, thanks to the rigid mobile portal structure moved by a double motor.

**MACHINING HEADS**
**WITH TWIN INDEPENDENT Z AXIS**
allowing fast alternating of the units present during machining and when possible tool changes in masked time.

**MACHINING HEADS CAN BE CONFIGURED FOR DIFFERENT PRODUCTION REQUIREMENTS**
Accord 40 fx allows all types of machining to be performed, from power routing with 5 interpolating axes to high-capacity boring and the machining of door and window frames with the exclusive “BRC” unit.
accord 40 fx
machining head: main routing unit

A whole range of machining heads with 3 to 5 interpolating axes able to carry out all machining operations required of a machining centre.

The electrospindle of SCM, with HSK 63 E tool holder, are powerful and reliable. They allow the use of tools of large dimensions and with double profile ensuring ease of profiling on elements of large cross-section.

Prisma allows machining up to 10 degrees below the horizontal axis.

Clean working environment with the conveyor helping to eliminate shavings and sawdust. Available for heads with 3 or 5 axes, it can be used both with single-profile tools and double-profile tools.
Cutting, routing and boring both vertically and horizontally, without needing the tool changer, using the BRC unit. Fast and precise for all accessory machining, for making a door or window frame there is a single secondary unit using an independent Z axis and dedicated inverter.
accord 40 fx
machining head:
auxiliary unit for boring and routing

The optimum solution to all boring requirements is found in the wide range of modules available for the Accord fx, with from 14 to 50 independent spindles.

Longitudinal and transversal cuts can be made with the blade unit built into the boring head with 0-90° rotation.

Faster operation, more tools available with the PB TC additional routing unit, power 8.5 kW and a 6-location Rapid tool changer.
The machine is always equipped for any machining using the TRC chain magazine with 48 locations available for large and double-profile tools.

“Mach 5” in only 5 seconds replaces the tool drastically reducing down-times.

Accord fx has solutions suitable for any production, such as the Rapid 12 on-board even allowing tool changes in masked time, which can be combined with additional magazines such as the Rapid 16 or 24.

To have the most tools available, the rack magazine may have up to 12 locations, used by all the items present on the machining head.
Matic is the fully automatic worktable ideal for machining solid wood. Complete set-up in seconds, all bars and supports moving simultaneously, each driven by an independent motor. The many technical devices give this table lasting safety and reliability.

Switching from clamps to suction cups and vice versa is fast and practical. The quick coupling perfected by SCM allows operators to switch at the press of a button, without the need for external tools.
Perfect for machining pre-finished/finished door and window frames, all supports having cleaning blowers which remove all shavings from the sliding zone and on the workpiece hold-down base during clamp changes.

Workpiece loading and unloading is easy and ergonomic. They are automatically carried to the machining zone to prevent any kind of collision thanks to total worktable management.
The worktable with manual movement is available in the “Start” and “Pilot” versions, allowing maximum freedom of use thanks to the quick coupling system for adding and removing clamps and suction cups to always guarantee optimum hold-down.

In the “Pilot” version positioning is guided and controlled by the workpiece program. Magnetic sensors detect the correct position of all components, eliminating the risk of collision.

Fast operations that do not require any further checks; the display on the mobile console shows the position for each element and provides a real-time view of all movements until the correct position is reached.
All versions of SCM worktables use common accessories and always offer ideal hold-down to provide top quality finishing even with heavy duty stock removal.

The worktable can be configured for machining heights of 50 mm or 110 mm with a range of clamps and suction cups for holding down and fixturing workpieces having any shape.

The H110 worktable allows maximum freedom of movement with tools and even use of “double-profile” tools.
The exclusive SCM multi-function worktable allows the use of a whole range of accessories designed to meet all workpiece support and hold-down requirements. The MPS system is extremely practical to use.

Fixturing operations are practical and easy. The exclusive aluminium profile has grooves and holes specially designed for optimum positioning of any type of support. This work is even faster using the laser pointer which shows the precise point where the suction cups must be placed.

The directly machined worktable guarantees lasting absolute precision and perfect flatness thanks to its high level of rigidity. Also ideal for machining plastics, resins and light alloys.
Accord 40 fx allows you to select the safety system most suitable for the customer’s requirements, in terms of available space and production methods. The systems have no floor sensor, which means the machine offers 100% loading access without any obstacles, and the possibility to exploit the entire length of the table for pendular machining operations; the utmost freedom of movement in absolute safety.

**safety systems**

**“Pro Speed” and “Pro Space”**

“Pro Speed” safety system: the loading area is marked off by a photocell that informs the control system of any possible operator access; the sensors on the mobile portal will only stop the machine in the event of contact. The machine can be used at its top feed speed (90m/min.) when the operator is outside the loading area.

“Pro Space” safety system: the loading area is completely free, to minimise the space occupied from front to back; the sensors on the mobile portal will only stop the machine in the event of contact. The machine can be used at a feed speed of 25m/min.
XILOG MAESTRO power and simplicity.
Xilog Maestro is the new powerful programming software dedicated to SCM machining centres.
Developed in the Windows® environment, it includes all the features and performance that allow easy, intuitive and effective programming even for people unfamiliar with Personal Computers or those using a machining centre for the first time.

• 3D graphics editor for workpiece, geometries, machining and worktables
• CAD mode geometries drawing functions
• Programming machining operations on angled faces
• Import DXF files: all formats with layer and geometries recognition
• Import Xilog Plus XXL and PGM files
• Macro writing via editor or scripting
• Additional software modules (optional) for door and window frames
• Production times calculation
• Teleservice

accord 40 fx
xilog maestro software:
the Scm group new CAD/CAM, powerful and user-friendly.

The technical data can vary according to the requested machine composition. In this catalogue, machines are shown with options. The company reserves the right to modify technical specifications without prior notice; the modifications do not influence the safety foreseen by the CE Norms.
## ACCORD 40 FX + ACCORD 40 FXM

### CNC machining centre

<table>
<thead>
<tr>
<th>Axes</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X-Y axes speed</td>
<td>m/min</td>
<td>90</td>
</tr>
<tr>
<td>Workpiece passage</td>
<td>mm</td>
<td>350</td>
</tr>
</tbody>
</table>

### Electro-spindle

| 3- and 4-axis electro-spindles power | kW       | 8.5 - 12 - 13 |
| Max. rotation                     | RpM      | 24000       |
| 5-axis electro-spindles power     | kW       | 11 - 13 - 15 |
| Max. rotation                     | RpM      | 24000       |

### On-board tool magazine

| N° pos. | 12          |

### Rear tool magazine

| N° pos. | 16 - 24 - 48 |

### Lateral tool magazine

| N° pos. | 8 - 10 - 12  |

### BRC

<table>
<thead>
<tr>
<th>Power</th>
<th>kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. rotation</td>
<td>RpM</td>
</tr>
</tbody>
</table>

### 3-axis additional electro-spindle

<table>
<thead>
<tr>
<th>Power</th>
<th>kW</th>
</tr>
</thead>
</table>

### On-board tool magazine

| N° pos. | 6        |

### Boring head

<table>
<thead>
<tr>
<th>Spindles</th>
<th>n°</th>
<th>da 14 a 50</th>
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</thead>
<tbody>
<tr>
<td>Power</td>
<td>kW</td>
<td>3</td>
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<tr>
<td>Rotation</td>
<td>RpM</td>
<td>18000</td>
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</table>

### Installation

<table>
<thead>
<tr>
<th>Suction opening diameter</th>
<th>mm</th>
<th>1 x 100 - 1 x 250</th>
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</thead>
<tbody>
<tr>
<td>Suction air speed</td>
<td>m/sec</td>
<td>25</td>
</tr>
<tr>
<td>Suction air consumption</td>
<td>m3/hr</td>
<td>1 x 1300 - 1 x 4400</td>
</tr>
<tr>
<td>Compressed air consumption</td>
<td>NL/min</td>
<td>170 - 300</td>
</tr>
<tr>
<td>Machine weight</td>
<td>Kg</td>
<td>6000 - 9000</td>
</tr>
</tbody>
</table>

### ACCORD 40 FX + ACCORD 40 FXM

#### BARS TABLE

<table>
<thead>
<tr>
<th>Machining area X</th>
<th>Machining area Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>3680</td>
<td>1680</td>
</tr>
<tr>
<td>5020</td>
<td>1680</td>
</tr>
<tr>
<td>6360</td>
<td>1680</td>
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<tr>
<td>3680</td>
<td>1905</td>
</tr>
<tr>
<td>5020</td>
<td>1905</td>
</tr>
<tr>
<td>6360</td>
<td>1905</td>
</tr>
</tbody>
</table>

#### MULTI-FUNCTION TABLE

<table>
<thead>
<tr>
<th>Machining area X</th>
<th>Machining area Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>3650</td>
<td>1600</td>
</tr>
<tr>
<td>4970</td>
<td>1600</td>
</tr>
<tr>
<td>6170</td>
<td>1600</td>
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<td>3650</td>
<td>1840</td>
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<tr>
<td>6170</td>
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<td>3650</td>
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<tr>
<td>4970</td>
<td>2120</td>
</tr>
<tr>
<td>6170</td>
<td>2120</td>
</tr>
</tbody>
</table>
THE STRONGEST WOOD TECHNOLOGIES ARE IN OUR DNA

SCM. A HERITAGE OF SKILLS IN A UNIQUE BRAND
Over 65 years of success gives SCM the centre stage in woodworking technology. This heritage results from bringing together the best know-how in machining and systems for wood-based manufacturing. SCM is present all over the world, brought to you by the widest distribution network in the industry.

65 years history
3 main production sites in Italy
300,000 square metres of production space
17,000 machines manufactured per year
90% export
20 foreign branches
350 agents and dealers
500 support technicians
500 registered patents

In SCM’s DNA also strength and solidity of a great Group. The SCM Group is a world leader, manufacturing industrial machinery and providing services and support anywhere in the world.

SCM GROUP, A HIGHLY SKILLED TEAM EXPERT IN INDUSTRIAL MACHINERY

WOODWORKING TECHNOLOGIES
TECHNOLOGIES FOR PROCESSING COMPOSITE MATERIALS, ALUMINIUM, PLASTIC, GLASS, STONE, METAL
The SCM Group is a world leader, manufacturing industrial equipment and components for machining the widest range of materials.

MACHINES AND COMPONENTS

INDUSTRIAL COMPONENTS

Technological components for the Group’s machines and systems, for those of third-parties and the machinery industry.

- **HiTECO** - Spindles and technological components
- **Les** - Electric panels
- **Steelmec** - Metalwork
- **Scmfonderie** - Cast iron

THE STRONGEST WOOD TECHNOLOGIES ARE IN OUR DNA

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**MACHINES AND COMPONENTS**