

BEST SOLUTIONS FOR SOLID WOOD AND ADVANCED MATERIALS PROCESSING

The novelty presented for the first time at Xylexpo is **Accord 50 FX**, the new 5-axis machining center with fixed worktable and mobile gantry, allowing to perform routing and drilling of work pieces up to **500 mm in height**. It is designed to meet the needs of many sectors, from design elements in wood to applications for plastics and advanced materials.

Other machines on show are **Accord 25 FX**, the machining centre that offers high technology and ease of use solutions; and the automatic throughfeed moulder **Superset NT**, characterized by a maximum working capacity of 260x200 mm and a minimum of 15x6 mm.



NEW ACCORD 50 FX MACHINING CENTRE LARGER MACHINING VOLUME, MORE OPPORTUNITIES OF USE

Launched at Holz-Handwerk, **Accord 50 FX is the new Scm machining center** allowing to perform routing and drilling of **work pieces up to 500 mm in height**. In recent years, the development of the machining centers affected mainly the 5-axis technology, a topic in which SCM Group has always been the champion: from the first applications born over twenty years ago to today's widespread use.

Today, the business sectors for a 5-axis machining center are multiple: panels, curved plywood, traditional elements in solid wood, design objects in wood, plastic, composites, resins, light alloys, prototyping, modeling and molds.

In order to meet the needs of the new 5-axis applications, it was necessary to increase the maximum machining capacity and allow the tool to move freely around complex-shaped work pieces; that trend has led to the design of **Accord 50 FX**.

Great finish quality. The machining capacity is more than 6 cubic meters, with all tools available on the machining head, while maintaining precision and finish quality at the highest level. The machining head is equipped with an electrospindle developing an output of **17 kW from 12000 up to 24000 RPM**, ensuring maximum performance supported by a sturdy aluminium structure, integrated with powerful drive units setting the rotary axes.

Unlimited possibilities. Tool stores positioned on the machining head, the mobile gantry and to the worktable side, make available **up to 72 tools**, reducing downtime.

Reliable technology. The **aluminium multi-function worktable ensures a perfect lasting planarity**, despite changes in ambient factors such as temperature and humidity. Direct integrated vacuum system and specially designed T-shaped grooves allow an **optimum locking of the work pieces** and the positioning of any type of mechanical locking equipments. The machine is available also with bars worktable, equipped with suction cups and pneumatic clamps with manual or automatic positioning, for easy and quick set-up.

Ergonomics and safety

Ergonomic use and high productivity of the machine are a perfect match. Thanks to the exclusive **Pro-Speed safety system**, the machine detects the operator's presence, allowing maximum access during work piece loading/unloading and giving high travel speed.

Smart programming

Thanks to the **Xilog Maestro software suite developed by SCM, Accord 50 FX programming is easy, intuitive, effective.**

Maestro 3D integrated module for 5-axis machining of 3D surfaces.

Maestro Pro View simulator, for visualizing in advance the machining operations to be carried out on the machine on a PC in the office.



ACCORD 25 FX

HIGH TECHNOLOGY AND UTMOST EASE OF USE FOR THE SCM MACHINING CENTRE

The **Accord 25 FX** model was designed with the needs of small and medium-sized companies in mind. **SCM has developed a 5-axis machining centre that provides utmost performance with minimum investment.**

Accord 25 FX combines state of the art performance with extreme ease of use for flexible productions of doors, windows, stairs, solid wood parts, panels of wood and advanced materials.

Varied and fast production

With Accord 25 FX it is possible to produce various types of products in less time. Thanks to the increased machining dimensions **up to 250 mm in height, the new locking devices and 44 tools always available on the machine**, it is possible to produce many different profiles in a reduced time of execution, achieving a higher productivity level.

The new locking clamps with 145 mm height and increased vertical stroke up to 70 mm, available both on MATIC automatic worktable and manual worktable, allow the **use of double profile tools without risk of collisions** with the other machine parts. It is possible to manufacture **elements with different thickness (from 60 up to 120 mm)**, without the necessity of manual set-up operations. Fewer tool changes, less risk of errors, elimination of set-up times for a production that meets the needs of modern doors and windows manufacturers, even in terms of larger sections, according to energy efficiency requirements.

Ergonomics and smart programming

As for the model Accord 50 FX, the Accord 25 FX is equipped with the **Pro - Speed safety system** and can count on **all the features of the Xilog Maestro software suite**, such as **Maestro 3D, Maestro Pro View** simulator and **Maestro WD**, developed specifically for the production of door and window frames, allowing users to design starting from the architectural light to the individual frame elements to be produced.

The **Maestro MSL Connector** module allows external management software to interface with Xilog Maestro. The machining strategies are managed based on the dimensions of the work pieces

and the operations to be carried out, in order to optimise the position of the locking systems and the tool paths.

Furthermore, **the Xilog Maestro software includes Maestro APPS:** a library of functions developed by SCM thanks to the experiences matured with the manufacturers of windows, doors, stairs and furniture. The Maestro APPS functions are immediately available, simple to use and allow clients to save time when designing the work piece.



SUPERSET NT

THE TECHNOLOGICAL THROUGHFEED MOULDER SO SIMPLE TO USE

The Scm throughfeed moulder **Superset NT** range allows to manufacture a wide variety of different profiles for doors, windows, stairs and furniture.

Strong point of the range is the great versatility.

From machines with manual management, to fully electronic configurations. Machine compositions from 4 up to 7 spindles, increased axial strokes, heavy stock removal and HSK technology: technical features that allow a high variability of the profiles with rapid set-up, then **a fast and richly diversified production.** For Superset NT are also available customized compositions, which fully meet the specific customer requirements.

High precision and rapidity

Very simple and quick profile change, thanks to the **SET-UP** system, making **set-up time up to twenty times faster** and eliminating any possibility of errors.

Easy control

The **electronic control Mobile 10 guides the operator in a very intuitive way** during all phases of the machine setting, for a quick and easy set-up. The innovative **MDI function** allows the control of manual axes, thanks to the display of the actual-quota and the target-quota provided by the program for a correct positioning. Mobile 10 also enables the complete integration of all management machine functions: electronic axes, feed system and machining units motors.

Extreme variety in terms of profiles

The **HSK technology** provides the user with a wide variety of tools for manufacturing different profiles, ensuring very flexible productions also for smaller batches. The tool change is fast and precise and takes place in conditions of maximum ergonomics for the operator. **The downtimes are drastically reduced and the perfect quality of the finished product is ensured.**

TECHNICAL DATA

- Work piece width **15-260 mm**
Work piece thickness **6 – 200 mm**
- Axial strokes: **80 mm** for vertical spindles, **45 mm** for horizontal spindles
- Moulding capacity max. **50 mm**
- Feed speed **up to 36 m/min**
- Manual centralized lubrication

High Resolution photos are available at:

www.scmgroup.com/press/holzhandwerk

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