

The SCM news for the carpentry at Ligna

SMART&HUMAN FACTORY FOR THE ARTISAN WORKER

SCM presents at Ligna the new **integrated cell** for flexible and customised production from the raw material to the finished piece of furniture enhanced by the integration with the MES software. The cell benefits from the advantages of the machines involved, considerably reducing times and margins of error and has a productivity of **30 cabinets per shift**.

Sizing: class px 350i

Circular saw with a mobile carriage and a blade that can be tilted up to 46°. The saw houses blades up to 350 mm (300 mm when using the scoring saw function). Operators can work in utmost safety and in limited spaces, thanks to the unique structure and machining process, which includes a presser to ensure that the panel is clamped perfectly, as well as protecting the operator at the same time.

The "Ready" upper mobile control, guarantees the motor-driven and programmed movement of the blade tilting and of the rear stop, ensuring a **fast and precise positioning** and reducing the movement of the operator.

Advanced technology with the **SCM Thundercut Optimizer/Sequencer**, unique in driving the operator step by step when inserting the panel into the machine and in cutting.

Edge banding: me 40

Automatic edge bander with the new **eye-S compact 10"** touchscreen control panel with **Maestro active edge** interface for optimal machine management.

Immediate and intuitive panel programming due the adaptative 3D design with real time preview of the set machining. Three working modes: manual, program and job order. **Error-free management** is ensured by the machining guidance system which suggests the correct machine setup to the operator.

High performance and rapid set up according to the working program, thanks to the new automatic systems with pneumatic units on/off controlled by the machine NC.

The multi-radius tools on the trimming and edge scraping units as well as the possibility of working different edge thicknesses with automatic set-up further increase **flexibility and precision**.

Another news to be highlighted is the introduction of the **new edge storage** fitted with top support table and integrated heating system which ensures optimal gluing even in cold and/or humid environments.

These new functions and features are also available on the **me 35** edge bander mode.

Drilling: startech cn plus

CNC drilling centre designed for the small-medium woodworking workshops but also for larger companies that produce customised products, with in house prototype development departments. The machine is equipped with the 8 independent vertical spindles, the 6 horizontal spindles, the blade in "X" and a version with router.

A great advantage is the high **flexibility**: it is possible to easily create furniture elements without having to reposition the tools and with no operator's intervention for the work table

and machine set-up according to the panel dimensions.
Tooling and machining operations reduced to the minimum, with **40 m/min axes speed**.
Great advantages in reduced spaces: startech cn plus with just 5 m² overall dimensions.

THE OTHER NEWS IN THE VERY WIDE SCM RANGE FOR THE CRAFTSMAN

SCM, world leader for top of the range, unique performance and continuous innovation will also be displaying an extensive offer of its woodworking machines in Hanover. Here are some of the main new entries.

BLADE OFF

"**Blade Off**" is the exclusive technological solution applied to SCM circular saws, which won the XIA - Xylexpo Innovation Award for the "panel processing" category at the latest Xylexpo 2022 edition.

It consists of a **predictive system of direct detection** that eliminates any kind of accidental contact between the operator's hand and the blade. This is thanks to a barrier equipped with **smart sensors** that can identify and recognise the human body compared to processed material.

The system triggers even before the blade is accidentally touched or the operator gets too close, by **protecting the whole danger area around the blade**.

Should a possible collision situation arise, the system automatically excludes the blade and stops the program running, **without damaging any component** of the machine.

The protection is expanded on 3 sides of the machine (work-piece entrance and side approaches to the blade) to prevent any kind of contact, even caused by inappropriate or accidental movements.

The system also activates with **high cutting speed**, without slowing down machining, and it includes the possibility of an unlimited reactivation, that does not influence either the cutting accuracy or the machine's performance.

Another great advantage is the possibility of **displaying and monitoring the operating status** of the machine thanks to a convenient luminous LED positioned in the blade guard.

STARTECH CN K

Maximum attention must also be paid to **startech cn k** on show at Ligna, the compact 3-axis NC machining centre designed and developed to carry out all types of milling, decorations, engraving, signboard creation and 3D model prototyping.

This machine allows to work with **maximum safety**: its **integral cabin**, with internal LED lighting, ensures protection for the operator and keeps the surrounding environment clean, as well as significantly reducing the noise produced by machining.

The 3-axis machining centre is the only one in its category equipped with **2.4 kW electro-spindle** with R25 attachment generally used on higher-end machines. Another great advantage is the very simple programming thanks to the "Open" virtual human-machine interface capable of importing G-code from any type of CAD / CAM software.

Furthermore, dedicated options have been designed so as not to place any limits on the user's creativity: the 4th interpolating axis (turning) which can be positioned on the work table, the pneumatic suction cups kit for fixing the piece (always on the work table), the tool height detection sensor to ensure total reliability.