

## THE SCM joinery machines for the processing of NON-WOOD materials

The machining of non-wood materials has always been a fairly common practice in the construction and furnishing sector, but they are very few machines with specific CE certificate for this type of work.

SCM Group have developed optional devices and dedicated configurations to makes the machines (circular saws, thickening planers, spindle moulders) suitable to machine, **in complete safety and according to the CE regulations**, plastic and other materials (among them aluminium light alloy and brass on circular saws).

The main news refers to the:

- Modifications to facilitate the removing of wood shaving
- Specific devices and configurations to a perfect work piece finishing
- Configurations which grant the total operator's safety

The application field of plastic and other materials of our interest ranges from the manufacturing of products for packaging, to those for the building (interior and exterior coatings, acoustic insulation), mechanical industry (filters, gaskets, etc.), the visual communication (signs, prints, etc)

The plastic materials are used mainly when a favourable ratio between weight and strength is requested and have considerable advantages of low density, good noise damping and vibration, electrical insulation or modulated conductivity, thermal insulation, good chemical resistance, permeability to electromagnetic waves, excellent resistance to the corrosion.

This project is designed to enrich, with the joinery machines that are dedicated to the processing of plastic and other materials, with what the SCM Group is able to offer in the "non-wood" sector.

With the new devices for the joinery machines intended to the non-wood materials, SCM offers the maximum quality and reliability guarantee to the activities that more and more enrich the traditional materials with the use of sophisticated new materials for the construction industry with an innate inclination to the research and technological innovation. In particular those operators who work: **PVC and other plastic materials, nylon, polycarbonate and other synthetic materials; Corian and other composite materials; aluminium, brass and other light metals.**

## Three new Minimax models for the SCM edge bander range

This year the edge banders range has been enriched and completed with 3 new models, each with their own characteristics to provide specific processes.

We can start with the **minimax me 22** equipped with all necessary devices to obtain a high working quality with a very competitive price thanks to the use of an end cutting device with shear device instead of blade. In fact this arrangement has been designed for those who mainly work the thin edge.

The minimax me22 is very versatile and increases its performance with the selection of two units from the three options available. These are Edge scraper, glue scraper and brushes.

Continuing with the **minimax me 28t**, the lowest priced edge bander on the market to have the trimming unit, which has become a necessary device and is a standard feature on the higher range machines.

This machine has been designed to **satisfy** the growing demand of machining laminated panels of various quality and the demand of **gluing finishes (glue line) less and less visible**.

If we want define it with 4 adjectives we could write that this new edge bander is compact, simple, versatile and very economical!

Then, the new **minimax me 40**, top-of-the range of the minimax edge banders with a wide choice of accessories; in fact it has the possibility to simultaneously install the following finishing units: edge scraper, glue scraper, brushes and scorer for grooves. This new model is characterized by its many advantages: working quality; possibility to work with polyurethane glue (optional); possibility to carry out slots; ease of use and increased productivity.

With a **9 m/min speed this edge bander grants a significant productivity increase**, allowing the use of important devices like the following:

- \* Adjusting infeed fence for pre-milling unit removal
- \* Solid and sliding extensible bar for panels support
- \* New intuitive control panel
- \* Encoder for feeding panel control

Another great feature of the minimax me 40 is the possibility to simultaneously house all finish units at a very competitive price:

- \* Pre-milling unit
- \* Gluing unit (glue pot- shear device- pressure rollers)
- \* End cutting unit with radius
- \* Trimming unit
- \* Edge scraping unit
- \* Glue scraping unit
- \* Brushing unit

Furthermore it is possible to have also the scoring unit for grooves without excluding any of the groups mentioned above

## **Even more performance with the new HSK 63E electrospindle for the SCM Spindle Moulders**

With this new electrospindle SCM offers the customer the possibility to use the same spindles with relevant tools of the spindle moulder on the Machining Centres and the machines for doors and windows application.

This exclusive drive unit consists of an electrospindle specifically designed for all possible spindle moulder applications. The electrospindle's direct drive eliminates maintenance procedures common with conventional belt driven systems. Optimal machine cleaning and a healthy environment due to an efficient exhaust system with side outlets.

Speed of setting-up due to the unique movement mechanism of the spindle developed by SCM which allows the operator to position independently the height of the tool with the tilted spindle and the moulder fence. Maximum performance using the latest technology of the screws with recirculating ball-bearings and the linear guides which guarantee a total absence of vibration and wear, therefore much reduced maintenance (centralised lubrication).

The HSK 63E tool taper is the best compromise among sturdiness, housing of large dimensioned tools, generally used for the solid wood machining (useful for large removals) and a low cost. The rapid tool-holder and HSK tool changeover, without the need of disassembling the tool, remains an advantage not to be undervalued.

With the development of these solutions SCM continues to maintain its position as market leader as far as the "top-level" spindle moulders sector is concerned. highly innovative solutions with advanced technology like the electrospindle are constantly upgraded to be always abreast with the times and the technological evolution.

This solution shows its maximum potential in large removals from hardwoods for the everyday workshop along with the door and window industries allowing the most difficult machining to be accomplished.