

## The latest from SCM in beam saw

### **AUTOMATION AND FLEXIBILITY: THE NEW GABBIANI GT CELL WITH ROBOT AT LIGNA**

In response to the ever-growing market need to produce both in batch 1 and in larger runs in a continuously flexible manner, SCM has developed a new, highly flexible process solution that involves the use of a **gabbiani gt2** single-blade panel saw with an **articulated robot** positioned on the ground at the front left of the machine.

The cell presented at Ligna 2023, as part of the Smart&Human Factory for the furniture industry production model, is the only exclusive integrated solution currently on the market that allows for the switch from automatic operation to manual processing with an operator in a few seconds.

The transition between automatic mode with robot and manual mode is, indeed, immediate: the robot positions or removes the additional modules between the in-feeding tables, necessary for its correct operation.

In **automatic mode with robot**, the cell allows to operate without shift limits, relieving the operator from low-value work, and to handle even small finished pieces with the utmost ease thus allowing to achieve a large increase in productivity and quality.

**Manual functioning** with operator, on the other hand, allows to cut in packs, guaranteeing an increase in productivity.

The cell is configured with **all the optional required for a complete process**: automatic labelling, rotary table for pre-cuts management, automatic ejection and management of trims, automatic system that guarantees the cleanliness of the worktable, automatic blade-scorer alignment system and articulated robot to handle and palletize the finished panels and offcuts.

The solution can also be fully integrated with horizontal storages.

### **STOP WASTE WITH THE NEW MAESTRO OPTIMISE OPTIMISER SOFTWARE**

Some of the main new entries presented at Ligna 2023 include **Maestro optiwise**, the new cutting optimisation software for the extensive range of **gabbiani** panel saws, whose function is to optimise the position and direction of the panel parts to be produced on the sheet, with a view to reducing material waste.

The aim at the root of the Maestro optiwise development is to achieve cutting excellence with minimum waste for production batches that are both large and small.

#### **Main functions**

**High calculation performance levels**: the software allows you to simply establish the ideal solution in terms of times and costs thanks to the powerful algorithms capable of working on multi core systems.

**External integrability** towards any ERP, by importing the material storage and the cutting lists relating to the orders to be produced.

**Dual direction office/factory 4.0 integration**: the software allows programs relating to orders for completion to be sent instantaneously to the machine and to read the machining parameters for punctual and correct planning.