cubo/

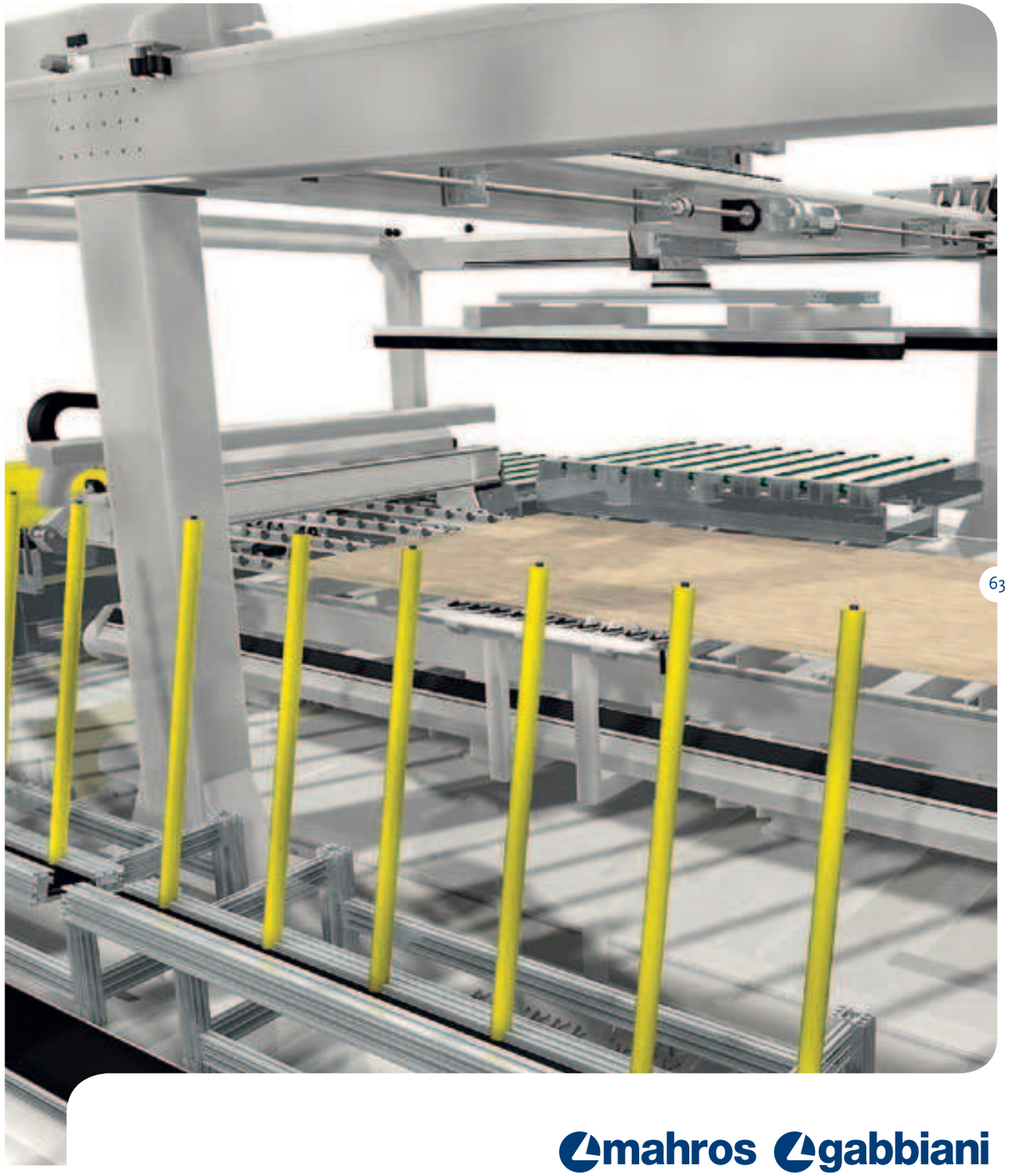
innovative panel sizing – squaring system
for single batches

GABBIANI presents an innovation for a broad group of customers whose top priority is to improve the processing of very small, highly differentiated batches in very short cycle times.
This need is widely felt throughout the woodworking industry. **Large companies** who already have production systems for handling large-size batches are now looking for ways of improving their efficiency in the processing of small batches. **Medium-size companies** need to move up to higher levels of technology and automation.

C.U.B.O. - Cutting Unit Batch One – is a **panel sizing-squaring centre** with a fixed worktable and two mobile gantries each with a single machining head. The structure is very compact and strong and the use of two routing units achieves high standards of **quality, finish, precision** and **productivity.** Each gantry is driven by two, electronically synchronised, brushless motors. The drive transmission consists of two racks with hardened and ground helical teeth. Moving components travel on prismatic guides.
The machining units travel on the vertical axis and are driven via a recirculating ball screw transmission by brushless motors. A centralised extractor system removes sawdust and shavings through a single inlet.
A **differential vacuum system,** selected from the PC, ensures perfect vacuum hold-down of the service panel and the panel to be sized on the worktable.

The **CUBO** panel sizing centre **incorporates** a **MAHROS loading-unloading system** controlled by **EASY PLAN** supervision software. **EASY PLAN** enables **automatic control of all work cycle steps** including: loading the sheet to be processed from the stack, unloading the sized panel to the edge banding line, off-cuts management, labelling of each single panel. The innovative software ensures full integration of the system into the production process and enables the preparation of cutting lists, the optimisation of cutting patterns and the management of work cycles.

Giving priority to the management of the off-cuts has made it possible to optimise and reduce to the minimum the quantities stocked. There are no limits on cutting patterns to ensure **very low waste rates** even on difficult jobs such as one-off batches.
The simultaneous operation of the two machining heads plus loading and unloading in masked time means that this system can achieve **production rates higher** than any system or machine currently available on the market.



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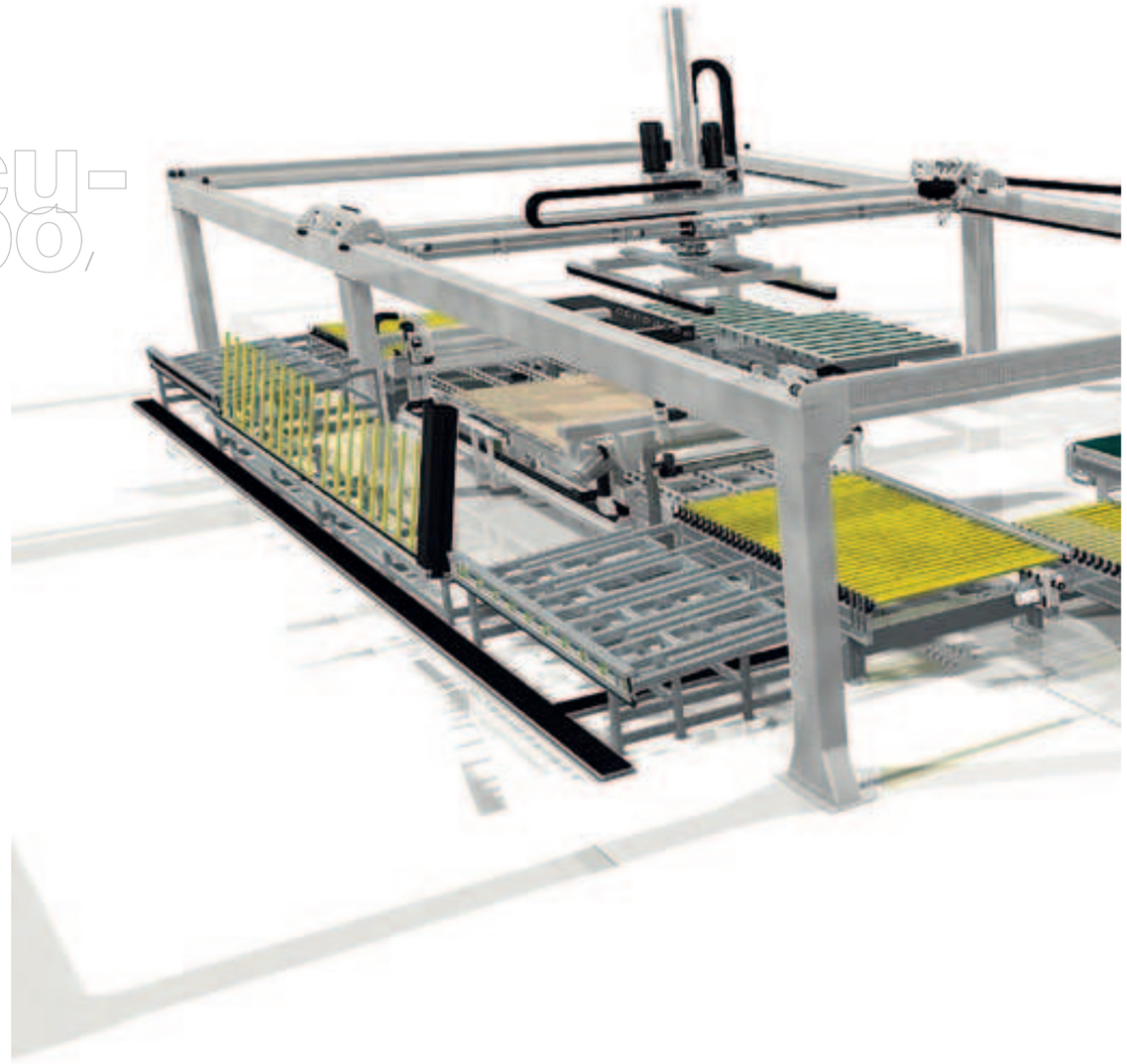

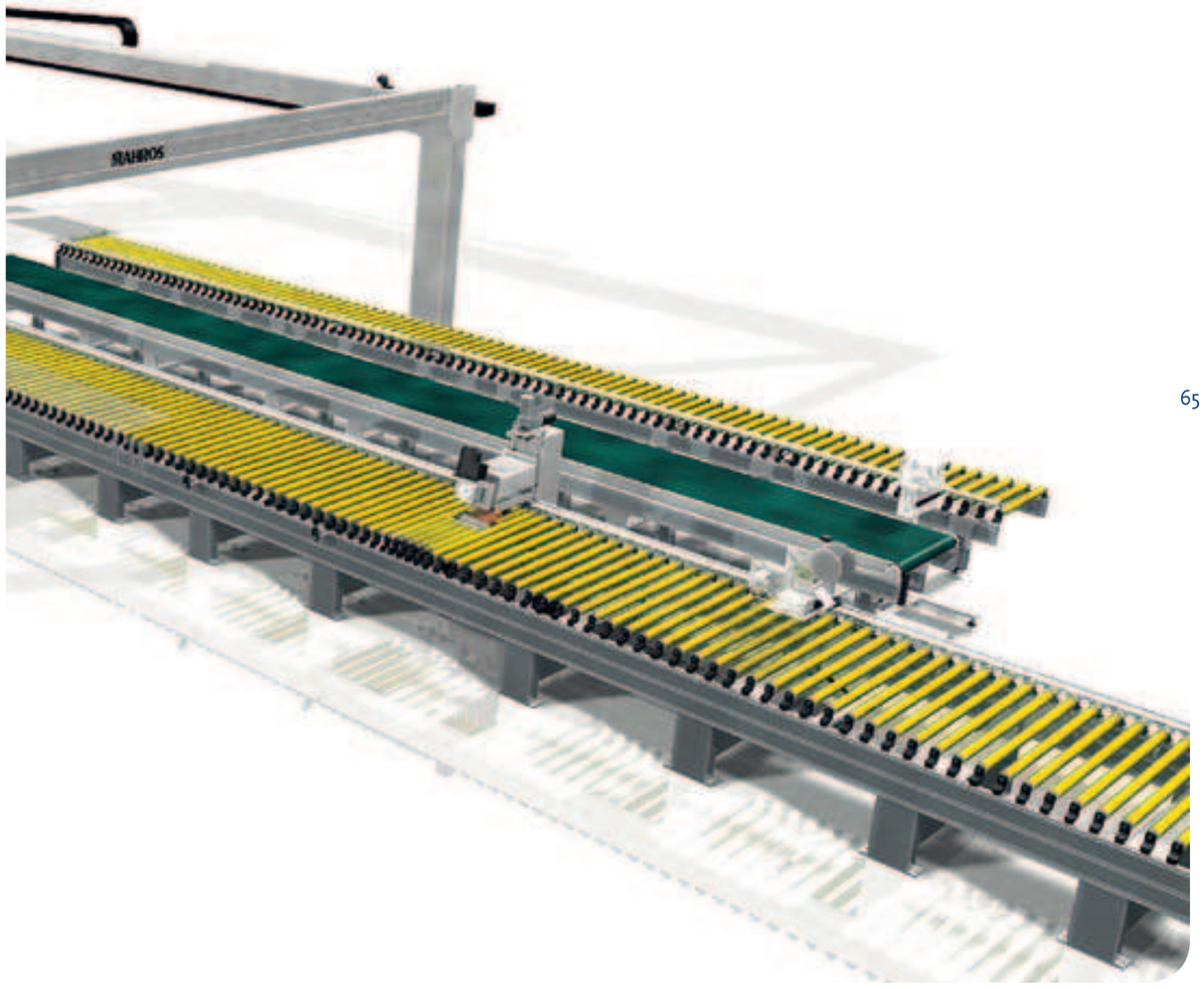

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