

SPECIAL DRILLING MACHINE FOR COMPOSITE BOARDS

SPECIAL PRODUCTS

REQUIRE SPECIAL MACHINES

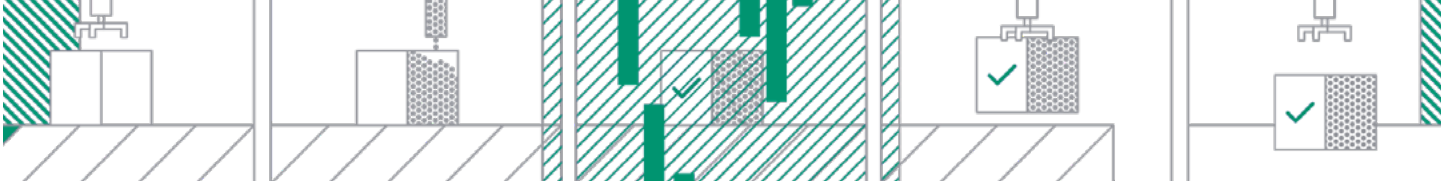


Fire protection - a demanding topic with highly developed products and materials. This also includes special fire protection panels and composite boards, which have to be drilled reliably and precisely at various points (horizontally and vertically). Producing them manually is not only error-prone, but also cost-intensive. At this point, automation offers a double potential: on the one hand, labor costs can be reduced, while at the same time process reliability is increased. This also convinced our customer, who asked us to develop such a special machine.

This machine should be able to produce various types of components in different machining programs without any set-up effort, while at the same time providing flexibility for future modifications and changed drilling specifications. With a compact and space-saving design made of durable materials and integrated removal of drilling waste as well as optional marking of the components, it is ideally equipped for long-term operation.

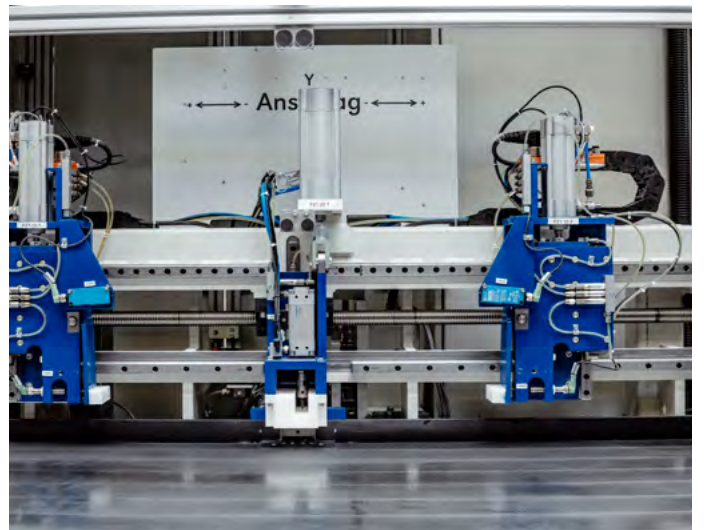
## THE PROCESS STEPS

- After the worker has inserted the required component into the machine and selected the machining program, automated centring and fixing is carried out
- Depending on the program, various horizontal and vertical machining operations are completed
- If required, the component is marked using a marking stamp
- Finally, the component is unclamped and can be removed by the worker and checked on the solid, stainless steel support table



## THE PROJECT IN FIGURES

- Duration per machining cycle: <10 seconds
- Component length from 160mm to 1,500mm
- Component width from 84mm to 800mm
- Component thickness from 30mm to 45mm
- 8 buttons for program selection



## DISTINCTIVE FEATURES OF THE PROJECT

This project once again underlines the strengths of special mechanical engineering: our customer's individual requirements are not only met, but specifically upgraded with additional benefits. For example, the concept was enhanced with a safety mechanism that reliably prevents collisions between the horizontal and vertical drilling units, thus ensuring maximum safety and short machining times. The specially developed, durable support table also ensures a long lifetime and provides an ergonomic work surface. In addition, a foot switch for starting the programs enables comfortable and efficient working.

Thanks to the clever design, the machine can be retooled very quickly with a manual pull-out in front of the support table, which increases efficiency in the production process and reduces operating costs.

As a result, this machine concept combines safety, efficiency and flexibility - ideal for long-term, intensive industrial operation.



### CONTACT

### ARE YOU FACING SIMILAR CHALLENGES?

We will be happy to advise you on projects of this sort and answer any questions you may have about our references.

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