

CUTTING, SAWING & PROFILING

Combi laser cutting machine for profiles, tubes and sheets

STIEFELMAYER has launched a new combination machine that allows profiles and tubes as well as sheets to be processed, without having to convert the machine.

On one side is a flatbed laser cutting machine for large sheets of 3,000 x 1,500mm in dimension, while the other side features equipment for profile and tube processing. A standard flatbed machine can only process tube sections following a large amount of structural conversion work on the machine, and the quantities are often too small to warrant installing a separate tube laser machine.

The working area for sheets is comparable with existing laser cutting machines. The sheet is loaded using the change table and is processed over the complete working area with the flying optics.

The principle of operation for tube and profile processing in the Stiefelmayer combi meets the established principle for conventional lathes with bar feed. Parts are either cut off from the profile, which is advanced automatically, or profile sections are clamped between the master chuck and tailstock chuck and processed along the length.

The working area for tube and profile processing runs parallel to the sheet processing area. The Y-axis projects over the sheet area, and this side of the machine features an extension arm along the whole length.

With a sliding door, which opens the complete work space, as well as a mobile control panel, the side for profile processing is also very easy to operate. With a bar feed with a length of 6m, profiles up to a circumference of 120mm are fed automatically. For larger profiles or special requirements, there is a sliding tailstock with manual collet chuck in the working area. The maximum clamping length is 3m. With the flying optics, it is also possible to process over the whole length in the profile working area.

An extensive off-line programming system is available for programming both processing technologies.

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