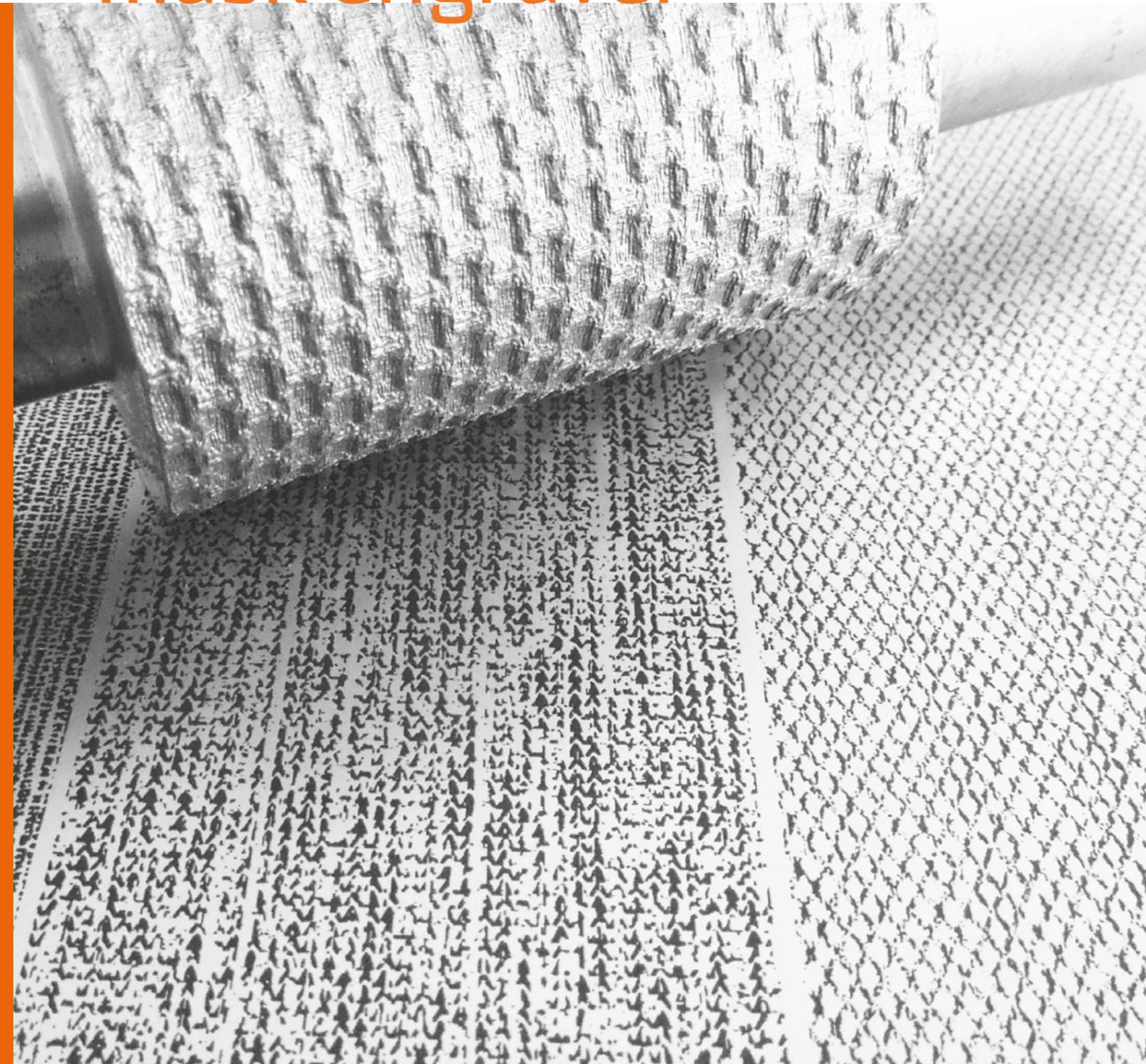




## mask engraver



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# history

The AKK GmbH is a young company, established in 2010. The collaboration between CST GmbH and Kesper Druckwalzen GmbH, fostered the essential expertise required to address for the laser and the embossing market.

In parallel with the laser business is the embossing field, where we produce machines for processing plate or rotary applications; cylinders, special foils and moulds.

To adequately fulfil the demand in our market, our product range is complemented with high quality 2D and 3D scanners, and we offer etching machines for cylinders up to 6.000 mm to our embossing customers.

Our philosophy is "YOU WISH, WE PROVIDE"; and in this manner we offer to our customers all-encompassing and logical investment.

## Embossing solutions.

We employ several head solutions and jetting technologies, depending on the exact application. But essentially, we jet etch-resist at high resolutions; on plates, cylinders, foils and moulds. The jetted etch-resist masks and protects the material, while the unprotected areas are easily etched.

Our mask engraver is a very fast and effective solution to process embossing cylinders, and in this machine format, we have sold machines into the wallpaper and auto market, and several other niche and technical embossing markets. The etch resist is jetted onto the cylinder, plate or foil. The resultant mask acts as an etch resist so that after this process, the cylinder or plate can be directly etched.

# product

## Embossing plates

Our flat embossing engraver, the EP 1050, permits digitally registered multistep etching of embossing plates. The plate is mounted on a movable vacuum table and digitally registered to extreme accuracy. In this manner, the same plate may be etched in multiple stages to achieve complex and excellent results. We manufacture this type of machine in various sizes, from 1 X 1M, up to 8 X 4M.

Our existing customers are processing to numerous and varied surfaces, processing embossing plates and cylinders for the furniture, flooring, stamps, presses, wallpaper industries; and moulds for the auto market.

## Embossing cylinders

Our rotary engraver, the EC 1050, permits digital multistep etching of embossing cylinders. It is a very fast and well-proven system for the processing of high quality embossing cylinders. A big advantage is our multiple-nozzle, slow revolutions methodology, which results in very sharp imaging and the opportunity to work at very high resolutions.

## Etching unit

The new etching machine from AKK GmbH was developed in close cooperation with an etching specialist. All materials utilised in fabrication are carefully selected for the handling of ferric chloride and nitric acid.

Two oscillating bars with jets result in an absolutely uniform etching process. Depending on the application and cylinder size, various jet types are selected to suit the job in process.

An air extraction system protects the operator from acid vapour inhalation when opening the cover. The acid is contained in a filtrated, closed loop system, which includes a 400 litre reservoir, with an immersion heater coil to accurately maintain the correct temperature.

Consideration for the cleaning of the cylinder with water is implemented in the machine, and this water is directed into a separate reservoir, isolated from the acid circuit and reservoir. The machine construction is robust; visually evident to the discerning customer. We offer etching machines up to 6.000 mm.

