



THE COMPANY



MADE IN
GERMANY



WELCOME TO THE WORLD OF KURIS

Talk to us directly – at Kuris headquarters in Deggingen-Reichenbach or at one of our offices around the world.



OUR TRIED-AND-TESTED SPECIAL MACHINES ARE USED IN THE MANUFACTURING PROCESSES OF A RANGE OF INDUSTRIES



In the world of Kuris, for more than 100 years everything has revolved around providing machines for spreading and cutting a wide array of different textiles. Catering fully for the individual wishes and requirements of our customers, we develop, design, construct and service these machines.

On the following pages, join us in delving deeper into the world of Kuris. Learn more about the history and continuous development of the family company and get an overview of our systems and machinery on offer. It all started at Kuris with the handheld and band knife machines. These have since been used thousands of times all over the world. Our range is constantly being expanded to include new machines which are fabricated from the very first to the very last screw in accordance with the customer's requirements. We work with an international network of resellers. Before our products start their journey to wherever you may be located in the world, they undergo rigorous testing. Whether simple battery-operated cutters or a complex spreading/cutting combination unit, at Kuris great importance is attached to our products being "Made in Germany".

THE FUTURE NEEDS A HERITAGE

Learn about all the most important milestones from a company history stretching back more than 100 years. You can also get a glimpse behind the scenes from watching our image film which can be found on our homepage.

2 January 1912: Carl Krauss and Carl Reichert founded "Krauss & Reichert Spezialmaschinenfabrik und Apparatebau G.m.b.H" in Bad Cannstatt. They started off producing cutting machines with ten employees.

1915: Carl Krauss left the company after being wounded in the First World War. But his partner retained the name.

1922: The company moved into the first factory building of its own in Bad Cannstatt.

Around 1928: The name KURIS appeared as an abbreviation on the machines for the first time, standing for „Krauss Und Reichert In Stuttgart“.

1937: The 26,000th electrical cutter was delivered.

1957: After makeshift production at different locations as a result of the war, in 1957 the company was able to move into a new site in Fellbach and all departments were again brought together under one roof.

1976: With 18,000 square metres of space to operate in and more than 350 employees, this was a real heyday for Kuris. The servo-cutter was presented and sold roughly 25,000 times through to 1999.

August 2005: Sabine Gassenmayer acquired the shares in the insolvent company. Gerd Wiedmann took charge of the company as managing director.

Summer 2009: Move to the new premises in Deggingen-Reichenbach, providing space to accommodate the company's growth plans.

2012: Kuris celebrated its 100th anniversary as a company – now with 45 employees as well as five apprentices and three students.

2016: Completion of the new hall providing 1600 m² of space and a five-tonne crane track. This was an investment to safeguard the site.

September 2017: Marc & Sven Gassenmayer are the new managing directors. Together with Sabine Gassenmayer, they are the partners of KURIS Spezialmaschinen GmbH

July 2021: Erdal Aygün takes over the position of technical Managing Director of Marc Gassenmayer.

March 2022: The main shareholder Sabine Gassenmayer takes over the position of commercial Managing Director from Sven Gassenmayer.



A SWABIAN COMPANY SINCE 1912



Kuris is a Swabian family company which is successful around the world thanks to its ingenuity, solid craftsmanship and innovative products. Since 2005 Kuris has been run as a family company, and in 2017 Marc and Sven Gassenmayer took over the management of the company. The key to success for Kuris is having a team with many years of experience as well as the breath of fresh air and dynamism that the younger generation can provide.

The company has had its headquarters in Deggingen-Reichenbach since 2009. The former subsidiary plant of a textile company provided space for the planned expansion. New additions included the construction of a dedicated showroom together with an integrated training room in which all the important classes of equipment are available for individual tests with original materials.

Kuris has also for many years been a business that offers apprenticeships for the next generation of skilled workers: By working together very closely with local and regional educational institutions, talented young people are introduced to the challenging tasks within the company, ensuring solid training and education.



As a forward-looking traditional company, the issue of environmental protection is extremely important to us. Having modern photovoltaic panels on the roofs of our company building enables us to obtain 50 per cent of the electricity we require from renewable energy sources. We do not use any oils, hazardous substances or harmful materials in our production.

FROM THE LOCAL REGION OUT INTO THE WORLD



The main areas of focus have changed over time to reflect the developments in textile processing and the growing number of materials that can now be cut. Kuris started appearing at trade fairs around the world more than 50 years ago, and this is still the case today. The company's products are presented at a minimum of ten international trade fairs every year.

Short distances thanks to regional suppliers for all materials that are required have always been part of the corporate philosophy of Kuris. "Made in Germany" is synonymous here with perfection, reliability and the durability of the products which are finished to a very high standard. In machine construction, quality means a high degree of precision, perfect results every time, high processing speeds and efficient equipment.

The Kuris team caters for each customer's individual needs in planning and designing every single machine. Thanks to its network of regional suppliers for the individual components for the machines, Kuris is able to guarantee a high degree of flexibility. We are in constant personal contact with our suppliers so that we can work together to guarantee the high quality standards for your order. Whether you require a standard machine or special machine, we have the right solution to suit any requirement.

QUALITY. MADE IN GERMANY.



Everything under one roof: Kuris has its own in-house designers and developers. Whatever material you choose, they design and construct your individual cutting machine. The team includes application engineers, designers, development engineers and electrical engineers as well as software developers for the new machine that is to be constructed. The individual designs are streamlined and made more precise, and their functionality is tested until the final result passes the supreme quality test.

Whereas the designation "special machines" once used to refer to very particular products, nowadays it represents the very individual machines for spreading and cutting technical textiles such as carbon, glass fibre or even Aramid. In addition, there is a focus on everyday materials such as leather, carpets or any textiles used for producing clothing.

SINGLE-PLY CUTTER

ONE LAYER, MANY CHALLENGES

Single layers are generally materials with multiple components – such as convertible roofs or carpets.

Cutting of:

Textile materials, technical textiles, films, leather, plastics, prepreg, glass fibre, carbon fibre, honeycomb material, special materials

Areas of application:

Clothing industry, automotive industry, aerospace industry, furniture industry, construction industry, boat industry and the leather-processing industry

The advantages:

- + Speed
- + Precision
- + Rapid tool change
- + Short set-up times
- + Mobile operator terminal
- + Outstanding cutting quality
- + Smooth operation
- + Long lifespan
- + Easy to service
- + Easy to operate
- + Individual designs with contour cut and with inlays (carpets)
- + Mass products such as designer carpets
- + Partial cutting is possible, for example in order to cut indentations out of foam materials



Carpet head



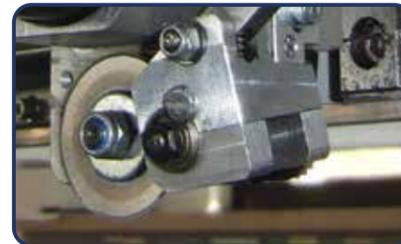
Milling



Oscillating cutter blade



Driven round knife



Cameras



Scanning process



LEATHER

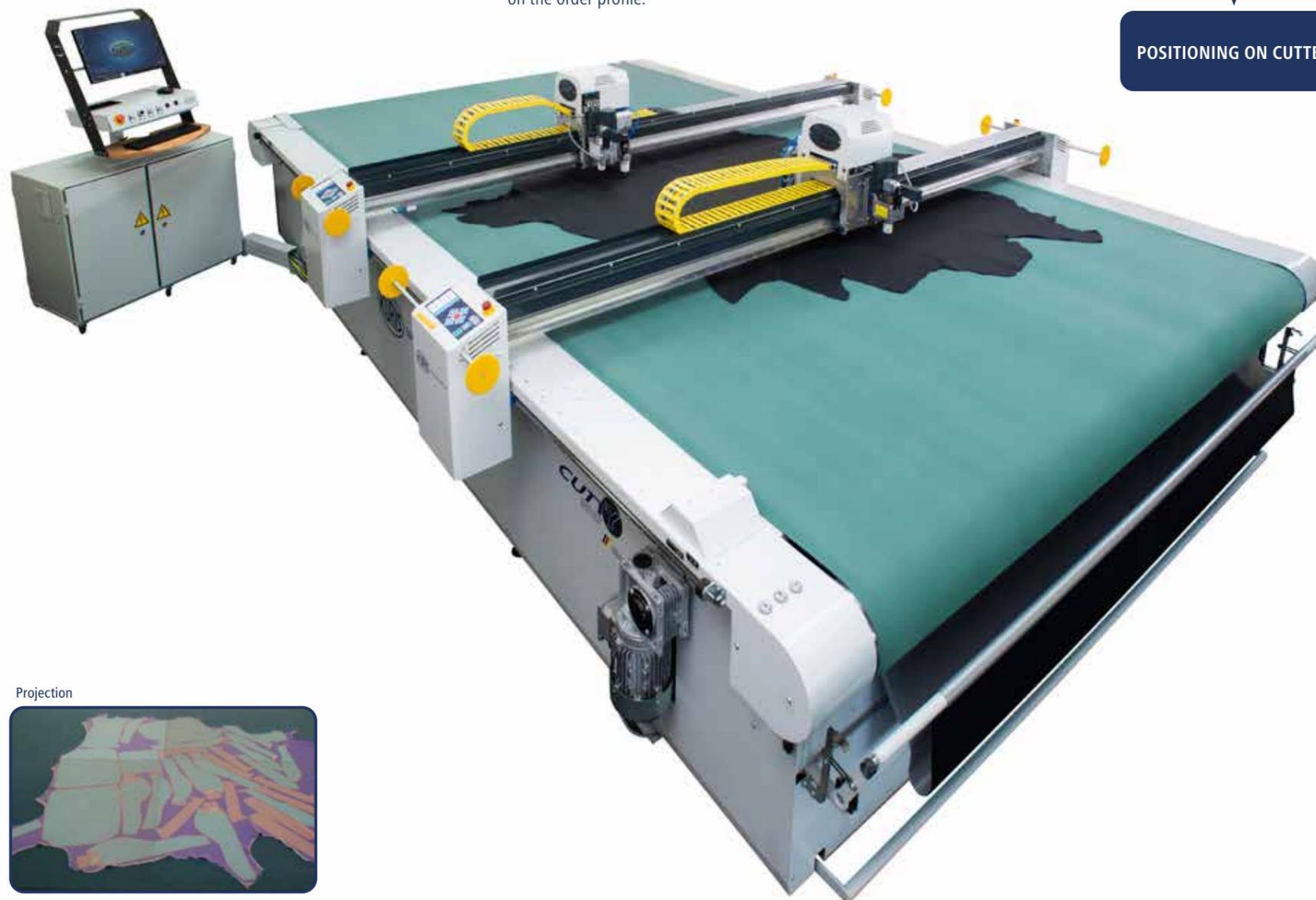
THE COW – THE LEATHER – EACH HIDE IS UNIQUE

Cutting leather to the right size has presented a very particular challenge for centuries. In order to identify the problem areas of the material, we have been developing our system for leather detection for many years. The crucial thing here is to determine which part can be cut out of which section of the hide.

Working together with our partner Gemini, we have developed special computer software for examining leather.

The detailed detection process takes place when the material is received or before it leaves the supplier, is fully registered and can be accessed at any time.

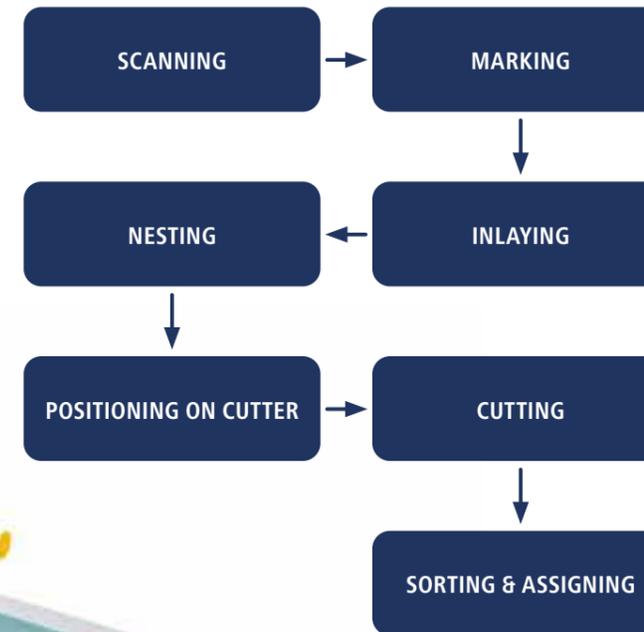
Systems of different complexity are available depending on the production volume: they range from making optimum use of the individual hide to recording, archiving, storing and cutting many hides based on the order profile.



Projection



OFF-LINE SOLUTIONS



Scanning station

The patented scanning station of Kuris combines innovation, ergonomics and efficiency. The use of a smart pen and an interactive workspace opens up possibilities for perfecting value-adding workflows. The digital data records enable new dimensions when it comes to order creation, diagnosis and economic efficiency.



IN-LINE SOLUTIONS

Implementation is possible on any budget here. Optical devices such as cameras and projectors are used for recording and visualisation. The OT1 tool is a cutting tool which is perfectly customised for leather. The integrated cleaning brush guarantees a smooth and reliable process for the optical devices. The lifespan of the cutting underlay is also extended significantly.



MULTI-PLY CUTTER

LAID MULTIPLY, CUT EFFICIENTLY

Our machines in the TexCut range can process textile packages which are up to 100 mm high. The height depends on the material and the level of precision required. Both leading Asian textile manufacturers which supply prestigious European fashion labels and well-known German clothing manufacturers rely on the technology from our company.

Areas of application:

Clothing industry, automotive industry, aerospace industry, furniture industry, construction industry, boat industry and the railway industry

Hot drill unit



Cooling device



Smart knife



The advantages:

- + Bristle belt with cutting window of 2.2m, 3.5m or 4.5m: optimum adjustment to the size of the parts and cut files
- + Excellent cutting quality, also for cuts, difficult contours and hard materials due to automatic compensation of the knife bending (option: smart knife)
- + High cutting speed guarantees highly effective output even for single plies
- + Reduced energy consumption thanks to economic vacuum unit, vacuum output is optimally controllable
- + Easy to operate thanks to fully developed operator guidance
- + Easy to service thanks to standardised components, low-maintenance
- + Fast and straightforward change of knife and cutting head thanks to patented service position
- + Automatic parallelism monitoring – no subsequent manual alignment of the layer package
- + Automatic plausibility check – prevents faulty cuts if an operating error occurs
- + Resealer for a better vacuum

SPREADING MACHINES

A23



The A23 is an innovative spreading machine which is also very suitable for critical, smooth and elastic fabrics or poorly wound rolls of material. Strain-sensitive goods are spread without any tension. In the 1920s, fabrics were hung up precisely in multiple layers on what were known as rectometers from our company, tilted and supplied for precision cutting. Today the materials are spread out directly from the roll.

Areas of application:

Clothing industry, automotive industry, aerospace industry, furniture industry, construction industry, boat industry and the railway industry

The advantages of the A23 spreading machine:

- + Lightweight chassis
- + Very low noise
- + All running wheels are driven
- + High running and laying accuracy – suitable for the most difficult materials thanks to electronically synchronised material specification
- + Laying using zig-zag process
- + Graphical user interface
- + Zag-box available as an option for precise cuts or round knife for cuts in both directions
- + 3 USB ports for data transmission
- + Short set-up times
- + Vibrating discharge plate to ensure almost frictionless sliding of the product

Revolving upper carriage



Blowing out creases



TDS fault detection



Touch panel



Vibrating discharge plate



Fabric store for tension-free spreading



SPREADING MACHINES

A55



Reverse roller and spreader roller



Photocell for edge control



Touch panel



The Kuris A55 spreading machine is ideally suited for critical, smooth materials or even poorly wound rolls of material, with a wide range of different surfaces. The new deviating roller system of the driven cradle or material bar ensures an excellent quality in spreading. Excellent spreading results are achieved even with fully automatic spreading of tension-sensitive materials. The precisely regulated material specification can be adapted precisely to the required spreading speed. The semi/fully automatic unthreading/threading of the fabric considerably reduces the set-up times. Many spreading steps with different positioning and cutting points, numbers of fabric layers, zig-zag spreading programmes as well as numerous other material-specific parameters can be programmed individually.

Areas of application:

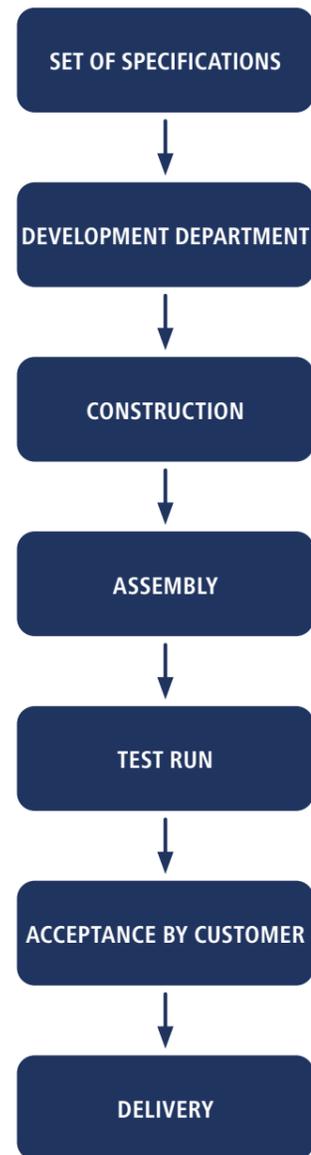
Clothing industry, automotive industry, aerospace industry, furniture industry, construction industry, boat industry and the railway industry

BENEFITS:

- + Cradle with automatic lifting for an ergonomic loading process (option)
- + User-friendly machine control
- + Graphical user interface
- + Easy to use
- + Software update possible even after several years of use
- + Programming possibilities for many spreading steps
- + Silicone-coated drive wheels
- + Photocell for monitoring the edge control
- + Different cutting units can be mounted easily
- + Infinite speed controller
- + Lightweight design
- + Very smooth running

CUSTOMISED PRODUCTS

The process when you submit an order to us:



Tile cutter for technical textiles



Special unwinding apparatus – for clean and crease-free laying

Other important pieces of information are whether and to what extent the machines which are individually manufactured by Kuris are intended to work together with other, existing machines at the customer's premises. Another service offered by Kuris is retrofitting the customers' existing machines directly on site if necessary.

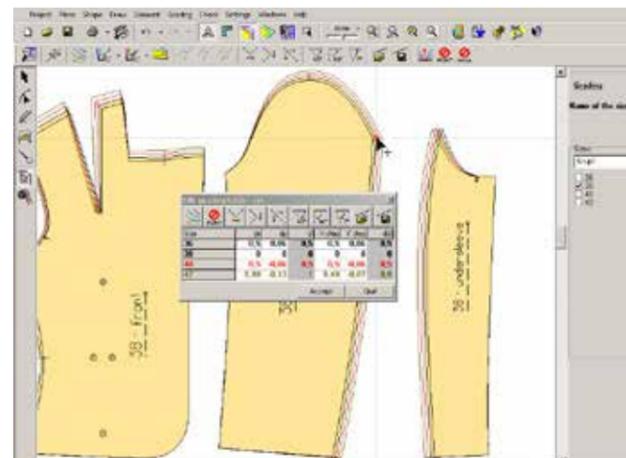
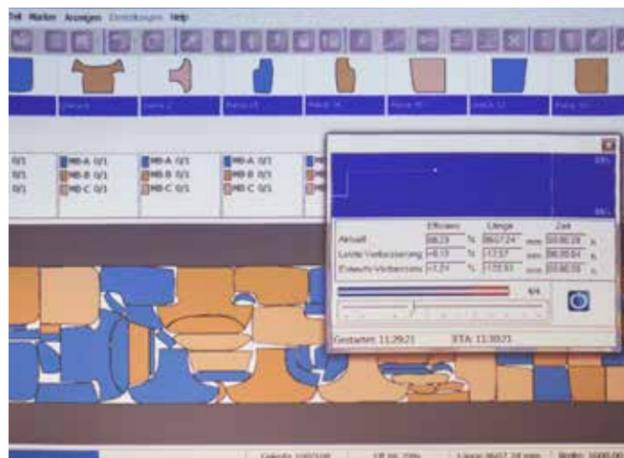


Laminating table – a simple cutting device developed further



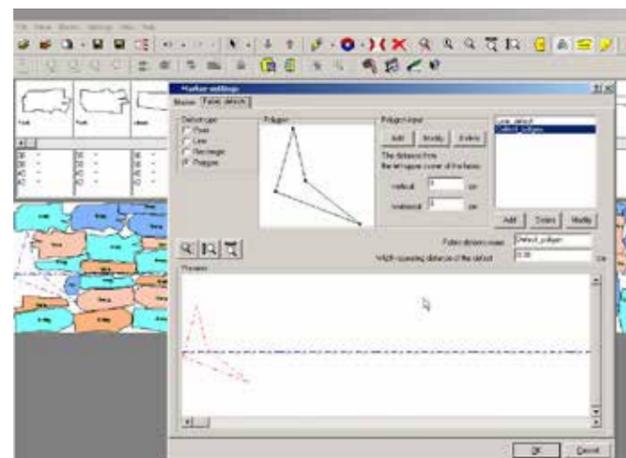
Feeding device for automatic feeding of the rolls of fabric.

CAD – THREE LETTERS, MANY MEANINGS

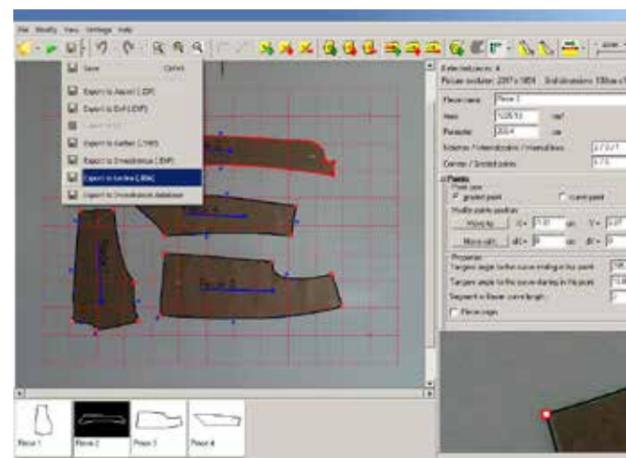


Computer Aided Design. What this means for cutting technical textiles and all kinds of other textiles is: How does the required cutting shape get to the cutting machine as quickly as possible? This on its own is a broad topic. Whereas previously a pantograph was able to transfer a contour from the original to the copy, nowadays the contours can be recorded with a digital photo of a pattern and reconstructed as many times as you want.

But in common parlance CAD also always includes CAM: Computer Aided Manufacturing. In actual fact, both must be harmonised to ensure that a fabric can be turned into a cushion cover. If just one single fabric is involved, this is easy. Then all the computer has to do is calculate how the required parts can be produced with as little waste material as possible.



Things get really interesting with patterned fabrics or when lots of different parts need to be cut from a material – as is frequently the case with upholstered furniture or items of clothing. Nowadays computers are able to handle the latter situation swiftly, but a lot more effort is required for pattern recognition. Working alongside Gemini, we have also found a solution for this which takes account of everyday problems. When patterned fabrics are fed from the roll, there is inevitably warping and displacement of the pattern. The software allows these to be quickly compensated for on the screen so that the machine cuts all parts correctly and the patterns correctly match one another as a result.



THEN AS NOW



The history of Kuris began with the electrical handheld cutting machines. The first models still had grips like scissors to make it easier for users to make the switch. Quite a lot has changed since then, but the range of applications has remained the same. Handheld machines are employed wherever any kind of fabric needs to be cut in small quantities or with varying contours. Today they are of course also available as a battery-powered version.

The band knife machines were also part of what the company offered right from the start. They have remained part of the Kuris range to the present day as the simplest version of the multi-ply cutters. They are also used by upholsterers and saddlers for occasionally cutting thick materials such as foams.





SPECIALIST IN INNOVATIVE SPREADING AND CUTTING TECHNOLOGY

Areas of application of our machines:

clothing industry, automotive industry,
technical textiles, furniture industry,
aerospace industry, shipbuilding, railway,
construction industry, new energy (wind power,
solar)

Product range:

Fully automatic cutting technology,
CAD software solutions; round knife machines;
straight knife machines; automatic servo-cutters;
band knife machines; manual, semi-automatic
and fully automatic spreading machines; cutting
and spreading tables; conveyor belt tables;
special machine construction

The comprehensive product range also allows
solutions tailored to your particular needs. In our
showroom, spreading and cutting machines are
available both for general demonstrations and for
testing with your own materials.

Arrange an appointment with us.

We will be delighted to advise you!

Kuris Spezialmaschinen GmbH

Degginger Straße 6
D-73326 Deggingen - Reichenbach

Fon: +49 (0) 73 34 - 9 24 80 - 0

Fax: +49 (0) 73 34 - 9 24 80 - 69

E-Mail: info@kuris.de

Technical changes maybe possible.

