

CNC300

ergoCNC | ergoCAM

Control Solution
for Textile Knife
Cutting



ProCom
AUTOMATION

CUSTOMIZED TEXTILE CUTTING MANAGEMENT

Worldwide Unique, Worldwide Successful

ProCom Automation is the only developer in the world offering a control system specially adapted to textile cutting. Various applications optimised for the textile industry are the result of continuous development and adaptation to the customer's needs and market requirements. Numerous features such as matching, the tool assistant and the various notch techniques make the application flexible and at the same time highly profitable - even at maximum speeds. The CNC300 control, which has been used successfully all over the world for over 35 years, is proof of the precision and quality of ProCom Automation.

Standard or Individual – You Have the Choice

Commissioning is simple and fast at the same time. The standard solution can be integrated into the machine by our experts within a very short time and is immediately ready to use.

Do you have special requirements and need individual features? On request, our experts will adapt the control solution to your individual needs and develop with you the functionalities that exploit the full productivity potential of your machinery. Feel free to contact us!

HIGHLIGHTS

Intelligent SmartKnife for knife stabilisation in high-ply cutting

Selection of different notch techniques with automatic notch optimisation

Material and tool assistant

Functions for easier handling, e.g. graphic sorting aid and labelling function

Precise matching for an exact pattern and repeat transition in the finished textile

Flexible nesting: automatic or manual

Individual definition of the cutting sequence and the optimum cutting direction

Support of various formats such as .dxf, .iso and .hpgl for data integration

Connection to the IoT production monitoring platform "Clouver"

DREAMTEAM FOR TEXTILE CUTTING

Smart and Profitable

The CNC300 control solution for textile cutting, consisting of ergoCAM and ergoCNC, is particularly impressive with its smart handling and fully automatic optimisation functions. High-precision cutting strategies based on stored algorithms for corners and curves, notches and seam allowances guarantee high-quality cutting - at any speed and for all materials.

ergoCAM

User-friendly job preparation and resource-efficient job planning

ergoCNC

Reduced workload during the cutting process thanks to automatic job processing

User Interface: intuitive and Flexible

The user-friendly interface of the ergoCNC is a result of a cooperative project with our development partners from industry and science. It enables intuitive setting of all production parameters in high-ply and single-ply cutting, even without training. With touch operation, functions can be controlled without a mouse or keyboard. The possibility of task-oriented and role-specific settings ensures a clear layout that displays only the information and operating elements that the operator needs for his current work step. Upon request, each user interface can be adapted to the company's individual corporate design. This ensures your company is optimally presented in the machine display.



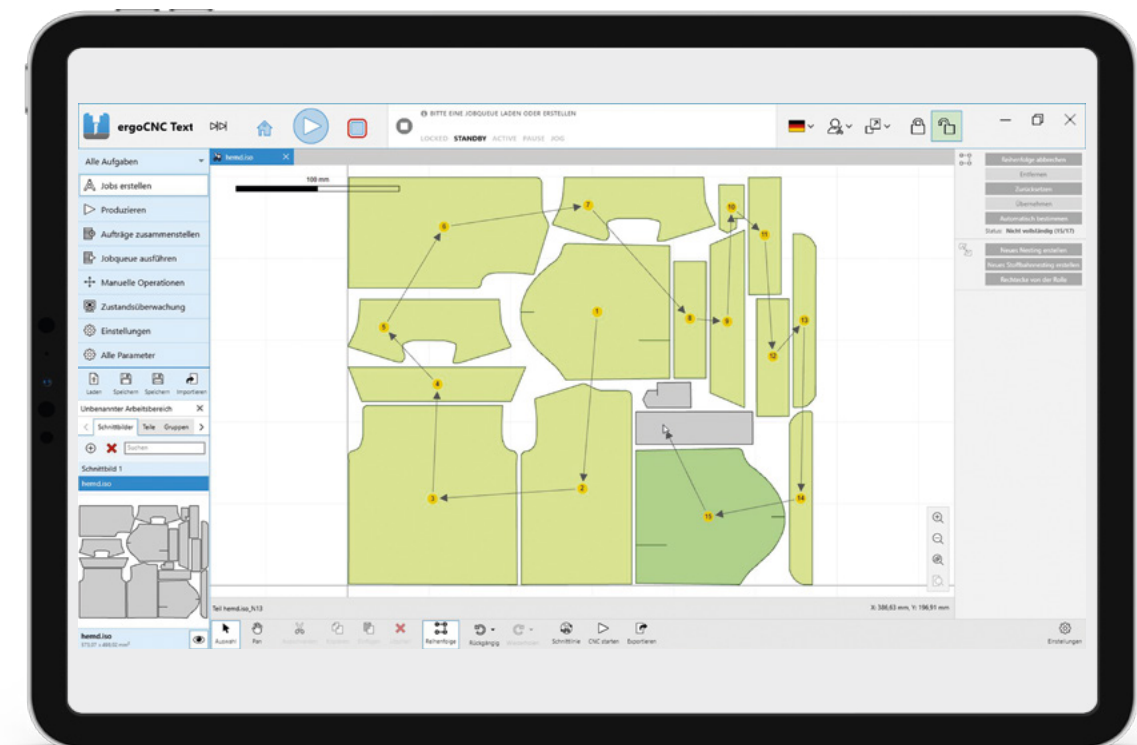
ergoCAM – TEXTILE CUTTING EFFICIENTLY PREPARED

Managing Cutting Sequence and Cutting Direction

To define the cutting sequence of the individual parts of a job, in ergoCAM the individual parts are simply selected in the desired sequence. The cutting direction of an individual part or entire sections can also be specified and manually changed with ergoCAM.

Autonesting – Up to 10% Waste Reduction

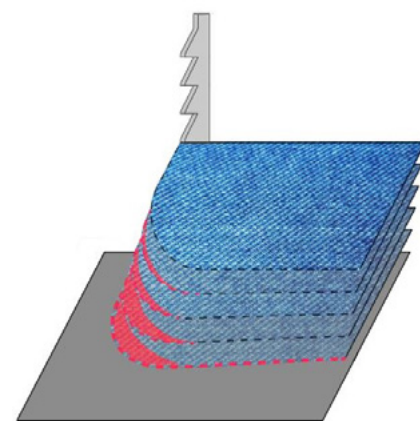
With the autonesting function, the individual parts arrange themselves fully automatically in such a way that waste is minimised. Optimised material utilisation can reduce waste by up to 10%. This reduces costs in the long term and makes production significantly more profitable. Alternatively, all parts in the cutting pattern can also be subsequently shifted or manually nested.



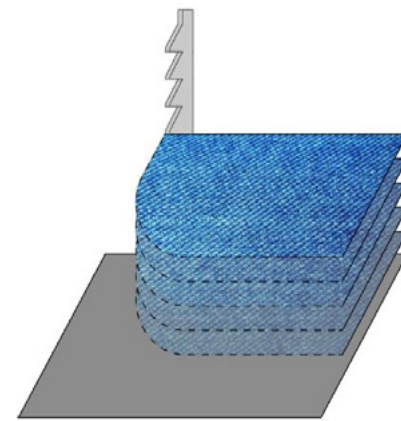
ergoCNC – UNIQUE FEATURES FOR IMPRESSIVE RESULTS

Intelligent Knife Stabilisation

Up to 200 layers of fabric are cut on the high-ply cutter. Due to the high density of fabrics, the vertically oscillating knife is pressed outwards and bends in the curves. The result: lots of waste and loss of quality. The intelligent SmartKnife function in ergoCNC compensates those mechanically caused behaviour of the knife bending with an integrated sensor technology. This guarantees maximum precision and perfect results even by cutting multi-layer fabrics.



Without the Smartknife intelligence layers are not cut exactly



The Smartknife intelligence guarantees an exact cut for all layers

Perfect Matching

For fabrics with patterns, stripes or special weaving techniques, the cut must be made in such a way that the repeat of the individual cut parts is matched. With the matching function, the cut succeeds for an exact pattern and repeat transition in the ready-made textile. The result is a high-quality end product with more profitability for cutting machine operators.

Sorting Unit for Improved Handling

A graphical sorting unit can be mounted in the transportation zone of the cutter. Once the cutting process has finished, the unit supports the operator ergonomically when sorting the finished cutting parts. After that the parts can then be labelled for further processing. Colour coding of the individual blanks can be configured according to the application. They make it easier for the operator to assign parts that belong together.



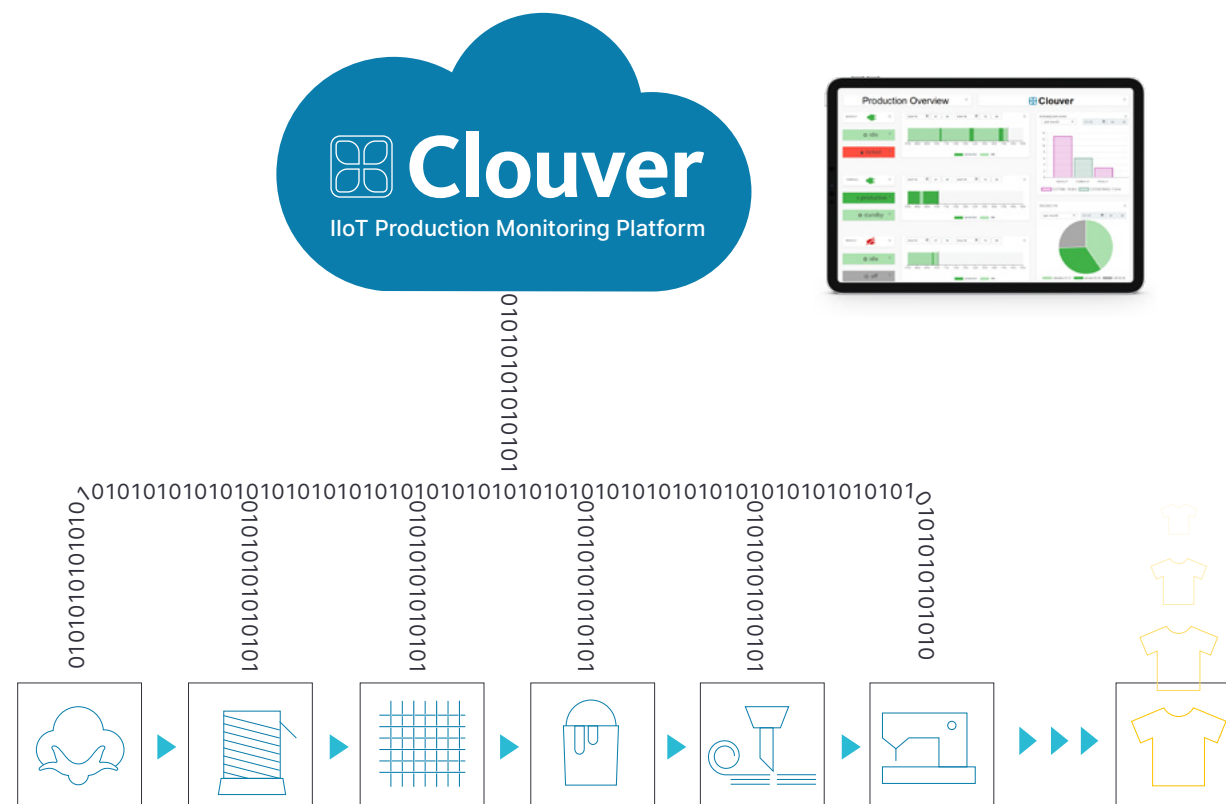
BECOME A MATERIAL MASTER

Easy Tool Management

The material assistant allows the operator to quickly and intuitively select the optimal tool for each type of material. The parameters are changed fully automatically to the values stored for the new tool. A signal icon shows the operator a necessary parameter change or a necessary tool change due to the new material. Even inexperienced operators can manage the tools in no time at all thanks to the tool assistant.



CLOUVER – IIOT PRODUCTION- MONITORING- PLATTFORM



BENEFITS

Unique and outstanding: Connection and complete data evaluation of all machines in heterogeneous machine parks

Up to 12% less machine downtimes thanks to effective downtime management

Improved data and information management saves up to 8% personnel costs

Cost reduction thanks to predictive maintenance and proactive repair planning

Reduced waste and quality assurance for all produced parts

First-class consulting and support from theProCom Automation expert team

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Book your free
initial consultation:



ABOUT PROCOM AUTOMATION

ProCom Automation is a specialist for automation solutions in the cutting and separating industry. For more than 40 years, the experts at ProCom have been developing high-tech control solutions featuring CNC and CAM software, high-quality hardware, and an optimised IIoT solution for the cutting industry.

Machine manufacturers all over the world benefit from cutting-edge automation solutions for a wide range of cutting technologies such as knife, laser, waterjet, plasma, and foam contour cutting. With product development focused on market and customer needs, ProCom Automation delivers unique features with significant added value to provide customers with a key competitive advantage for their success.

Clouver, the IIoT production monitoring platform, connects heterogeneous machine parks and brings transparency to production processes. With the targeted data evaluation of Clouver, unused potentials become visible, and productivity is optimized sustainably.

The company with its headquarter in Aachen is well established in the European and Chinese markets and continuously invests in the ongoing development and expansion of its product portfolio as well as in future-oriented technologies like digitalization for maximum efficiency and flexibility.

ProCom
AUTOMATION

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