

***CNC300<sup>®</sup> - Precision for  
Knife and Contour Cutting***

Control solution for maximum quality, speed, and process reliability.

***Move fast  
and grow.***



## Two Cutting Worlds. One Control Solution.

CNC300<sup>®</sup> with ergoCNC<sup>®</sup> and ergoCAM<sup>®</sup>  
for knife cutting and contour cutting

Whether fine textiles or voluminous foam – each material has its own demands on precision, process control, and efficiency. The CNC300<sup>®</sup> unites both worlds in a single control solution, flexibly tailored to your production. It delivers performance where it matters most: in maximum cutting quality, stable processes, and economical material use.

### Your Challenges:

- ▶ **Different materials** respond individually – from stretchable fabrics to high-density foams
- ▶ **Production volumes vary** – from single pieces to large series
- ▶ High quality standards meet **increasing cost pressure**
- ▶ Precision, repeatability, and material utilisation **determine profitability**

### Our Solution:

**With the CNC300<sup>®</sup>**  
*you control your cutting processes as precisely  
as your products demand –  
and as efficiently as your market requires.*

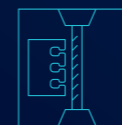


### Textile Knife Cutting

Fashion, home textiles, automotive interiors,  
technical textiles

#### Your Benefits:

- ▶ Precise edges and fits – even with large numbers of layers
- ▶ Reduced waste through optimised cutting strategies
- ▶ High speed without loss of quality



### Contour Cutting with Band Knife

Upholstery, mattresses, vehicle seats, technical  
moulded parts, specialised packaging

#### Your Benefits:

- ▶ Clean contours without fraying
- ▶ Precise repeatability with complex geometries
- ▶ Gentle processing of soft and firm foams
- ▶ Flexibly adjustable cutting speeds for every material



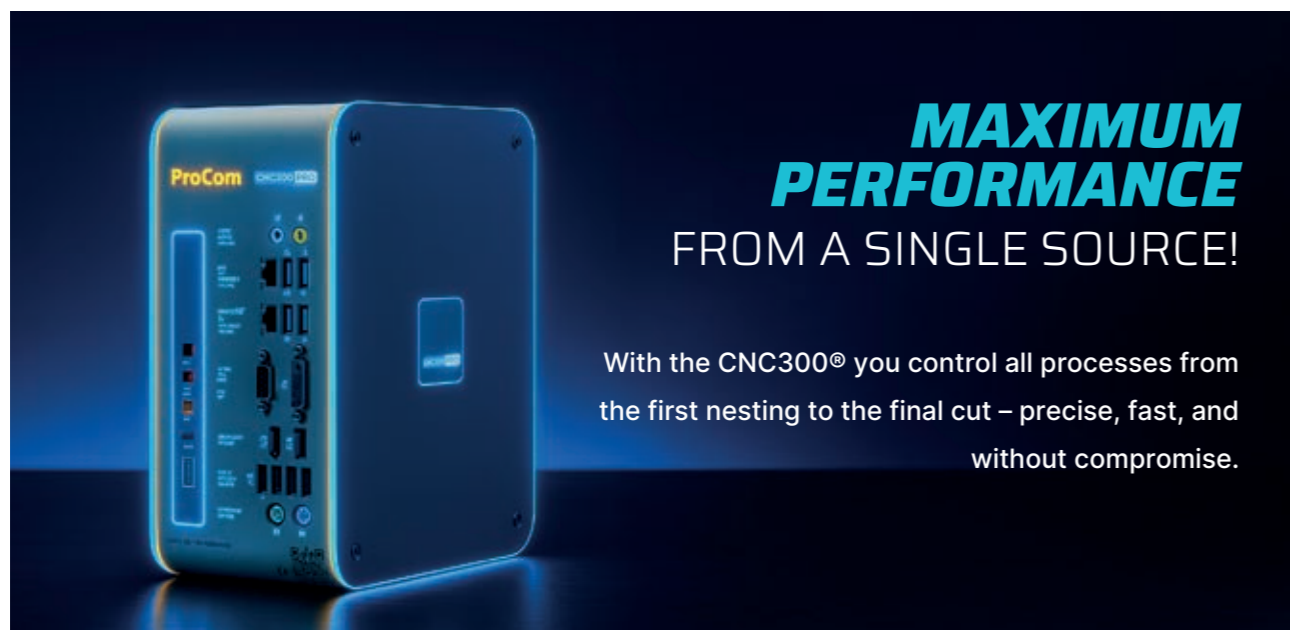
## The Heart of Your Cutting Machine

### CNC300® at a glance

The CNC300® is the central control solution for precise, efficient, and economical cutting – optimised for textile and foam applications. It seamlessly integrates production control and job preparation in a single system, giving you maximum control over every cut, every part, every job.

#### Your Benefits:

- ▶ **Maximum cutting precision** – even with complex geometries and at high speeds
- ▶ Fully automatic **optimisation functions** for maximum efficiency
- ▶ **Flexible adaptation** to customer-specific requirements
- ▶ Support for **all common file formats** (.dxf, .iso, .hpgl)
- ▶ **Reliable continuous operation** – even with the most demanding materials



## What Makes Your Production Faster

### Highlights for single- and multi-ply cutting

The key functions of the CNC300® at a glance – for maximum precision, speed, and material efficiency, whether you are working with single- or multi-ply cutting.

#### ZeroBuffer

Zero gap between parts

- ▶ Maximum packing density
- ▶ Clean contact points
- ▶ Less waste

#### Define cutting sequence/direction

Control processing with precision

- ▶ Process-optimised workflows
- ▶ Shorter cycle times

#### SmartKnife

Sensor-based knife bending compensation

- ▶ Precise contours in multi-ply cutting
- ▶ Reduced waste

#### ergoCNC® touch-UI

Role-based operating concept

- ▶ Quick parameter configuration
- ▶ Fewer errors

#### Notch-Techniken

Slit, V-Notch, Drill, Helpdrill

- ▶ Clear markings
- ▶ Reliable further processing

#### Tool/Material Assistant

Predefined parameter sets

- ▶ Correct settings
- ▶ Safe changes

#### Autonesting

Algorithmic part arrangement

- ▶ Up to 10% less waste

#### Data integration

Formats .dxf, .iso, .hpgl

- ▶ Seamless integration of your data

## The Blueprint for the Perfect Cut – Job Preparation With ergoCAM®

With **ergoCAM®**, you plan and optimise your cutting jobs down to the last detail – from automatic material utilisation to individual cutting sequences.

### Your Benefits:

- ▶ **Autonesting** – reduce waste by up to 10 %
- ▶ Manual and automatic nesting **freely combinable**
- ▶ **Flexible adjustment** of cutting sequences and directions
- ▶ **Job planning** and material usage optimisable in real time

up to **-10%**  
LESS WASTE



**LESS WASTE,  
MORE EFFICIENCY!**

With **ergoCAM®**, you get the most out of every roll of material – fast, precise, and consistently reproducible.

## Production With Precision – From the Very First Cut With ergoCNC®

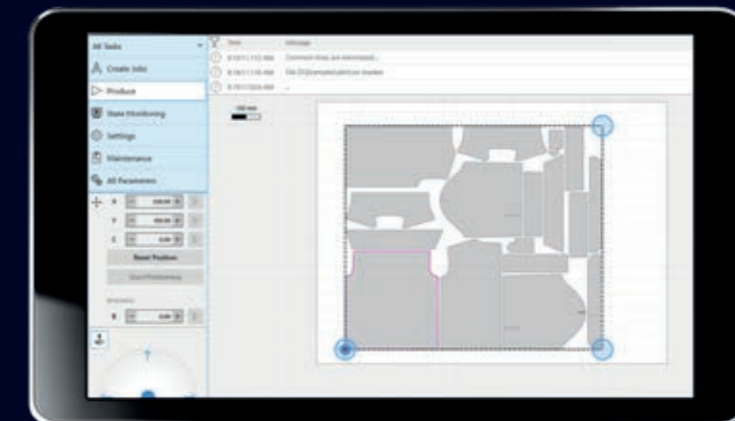
The **ergoCNC®** user interface makes complex cutting processes easy to operate. Touch control, role-based views, intelligent features, and a streamlined layout ensure optimal usability.

### Your Benefits:

- ▶ Intuitive **touch operation** without extensive training
- ▶ **Role-specific** display – only the relevant information in view
- ▶ **Customisable interface** in corporate design
- ▶ **Faster** start of production and **consistent** cutting quality
- ▶ **Customisable cutting speeds** for every material

**FULL CONTROL  
IN PRODUCTION!**

With **ergoCNC®** you control your cutting machine efficiently, safely, and ergonomically – from the first job to full-scale production.



## Tool Changes in Seconds

### Material & tool management

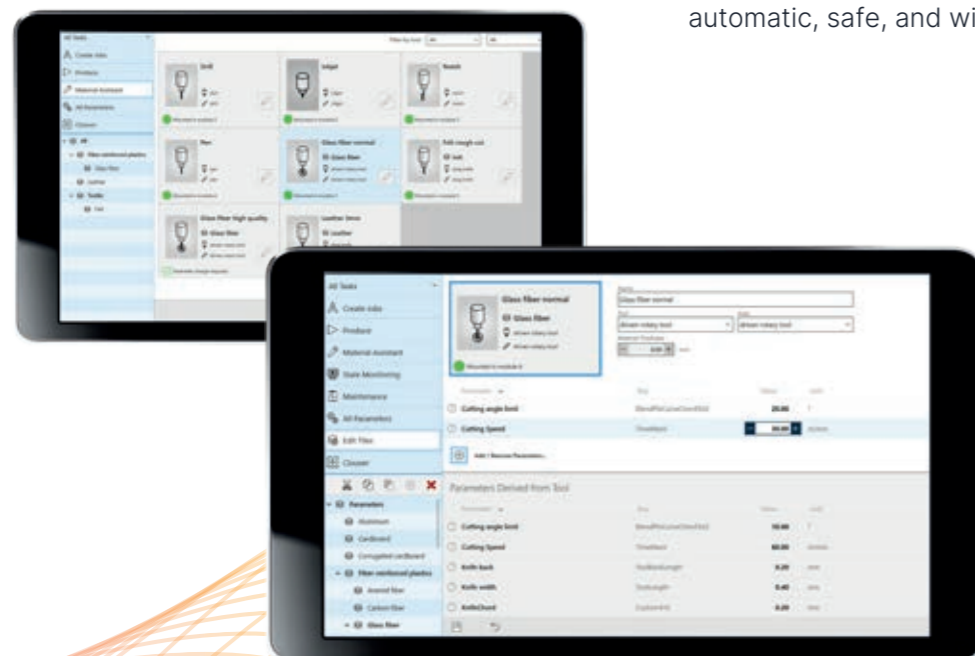
The Machine Assistant makes tool changes and parameter setting easier than ever. The system detects the tool in use, automatically adjusts the parameters, and signals when a change is required. In addition, the tile concept allows complete material and tool sets to be saved and recalled instantly when needed. CNC Wizards guide users step by step through setup, ensuring reliable results even during complex tool changes.

#### Your Benefits:

- ▶ **Faster setup times** through automatic parameter configuration
- ▶ **Greater process reliability** through visual guidance
- ▶ **Reduced error rates** – even with less experienced operators
- ▶ **Optimal tool selection** for every material

## QUICK CHANGEOVER CONTINUE CUTTING IMMEDIATELY!

With the **Machine Assistant**, changeovers take just seconds – automatic, safe, and without lengthy adjustments.



## Where Technology Becomes the Art of Cutting

Behind every perfect cut is a control system designed with meticulous attention to detail

The CNC300® combines intelligent functions, precise process control, and robust hardware – ensuring top-quality results at all times.

-10%

Reduced material consumption through autonesting

up to  
200  
LAYERS

Precision despite density in multi-ply cutting

approx.  
+6%

Productivity through ModernBlendTime

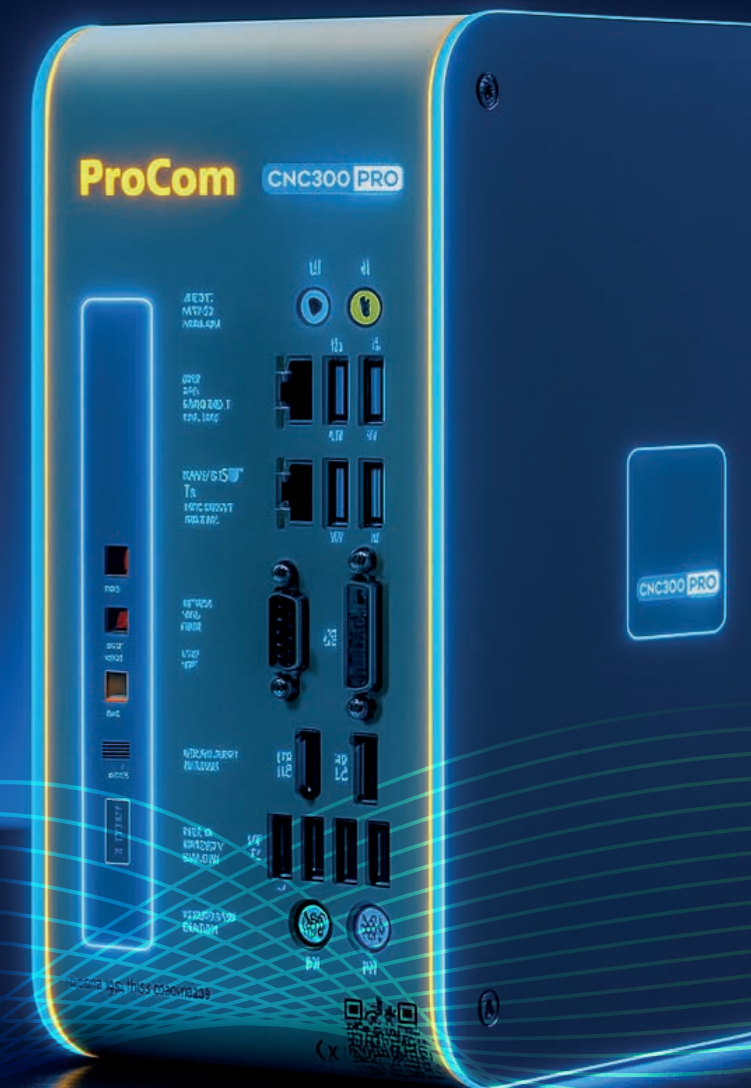
up to  
15%

Less waste

## Retrofit Instead of New Purchase

Upgrade your existing cutting machine with our CNC300® technology. Benefit from greater precision, speed, and efficiency – without the cost of a new investment.

Get your consultation now!





## Where Technology Becomes the Art of Cutting

### Special features in knife cutting

In knife cutting, the CNC300® offers a range of intelligent features that take precision, material utilisation, and user-friendliness to a new level.

#### ZeroBuffer

Enables cutting with minimal or no safety gap between parts. **Material utilisation increases by up to 15%** without compromising cutting quality or speed.

#### SmartKnife

**Automatically compensates for knife deflection** in multi-ply cutting. This ensures all layers remain perfectly aligned – even at maximum speed.

#### Sorting aid

Graphical displays, colour codes, and labels simplify part allocation. This makes the sorting process **faster and more ergonomic**.

#### Cutting during BiteFeed

**Controls the simultaneous feeding and cutting** of the material. **Reduces downtime**, increases productivity, and enables continuous sorting.

#### Barcode-Scanning

For **automated** data acquisition. Fast, error-free, **without manual input**.

#### ModernBlendTime

Ensures **clean directional changes at corners** – even with complex contours. Optimises edge quality and reduces rework.

#### NEW: Tile Concept

**Saves material** profiles with tool and parameter settings in tiles. Load with a click, adjust during cutting, and save if needed.

#### NEW: CNC Wizards

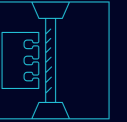
Guided step-by-step instructions for quick and safe machine setup. **Ensures reproducible settings** and **fewer setup errors**.

#### NEW: CNC Dialogues

Explanatory dialogues with visualisations show relevant parameters and their effects. This **reduces errors** and **speeds up setup**.

#### Seamless integration into production lines through OPC UA

For **automated** processes and integrated manufacturing.



## Perfect Control for Every Contour

### Special features in band knife cutting

The CNC300® controls band and oscillating knives with the highest precision – for clean cuts, even with complex contours and demanding materials.

#### Control of band and oscillating knives with 2.5D functionality

Precise cuts even with variable material height.

#### Manual/automatic nesting with start and matching points

Optimal material utilisation and precise placement.

#### Automatic cutting line guidance for the band knife through all contours

Exact final dimensions for sensitive materials.

#### Automatic re-sharpening and restart after knife breakage

Less downtime, reliable job completion.

#### Material-specific speed profiles and feed rates

Gentle and efficient processing depending on material density.

#### Seamless Integration into production lines via OPC UA

For automated workflows and connected production.

#### Accurate trajectory planning (Trajectory Control)

Fluid knife movements without jerks or sharp edges. Precise contours without fraying.

#### Adaptive feed rate control

The feed rate automatically adjusts to the material and cutting conditions. This prevents overload and guarantees smooth cut edges.

#### Accurate synchronisation between knife and table motion

Reduced vibrations ensure stable cutting quality – even when using band knives.

# ProCom

AUTOMATION

40+  
YEARS

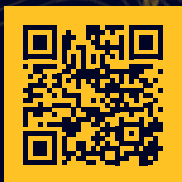
Industrial Experience



Expert in Knife and  
Contour Cutting



In Operation worldwide



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