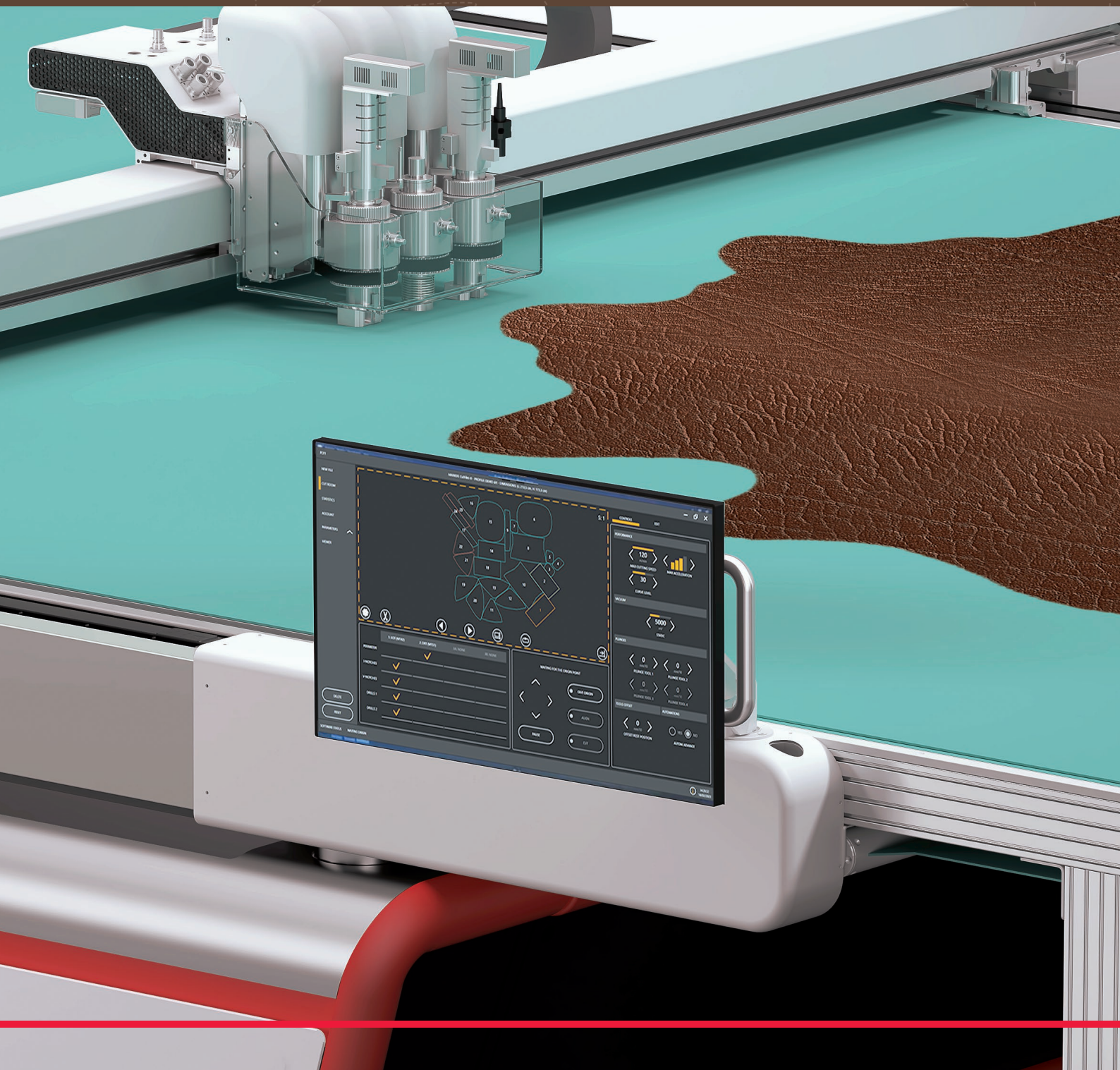


Morgan Tecnica

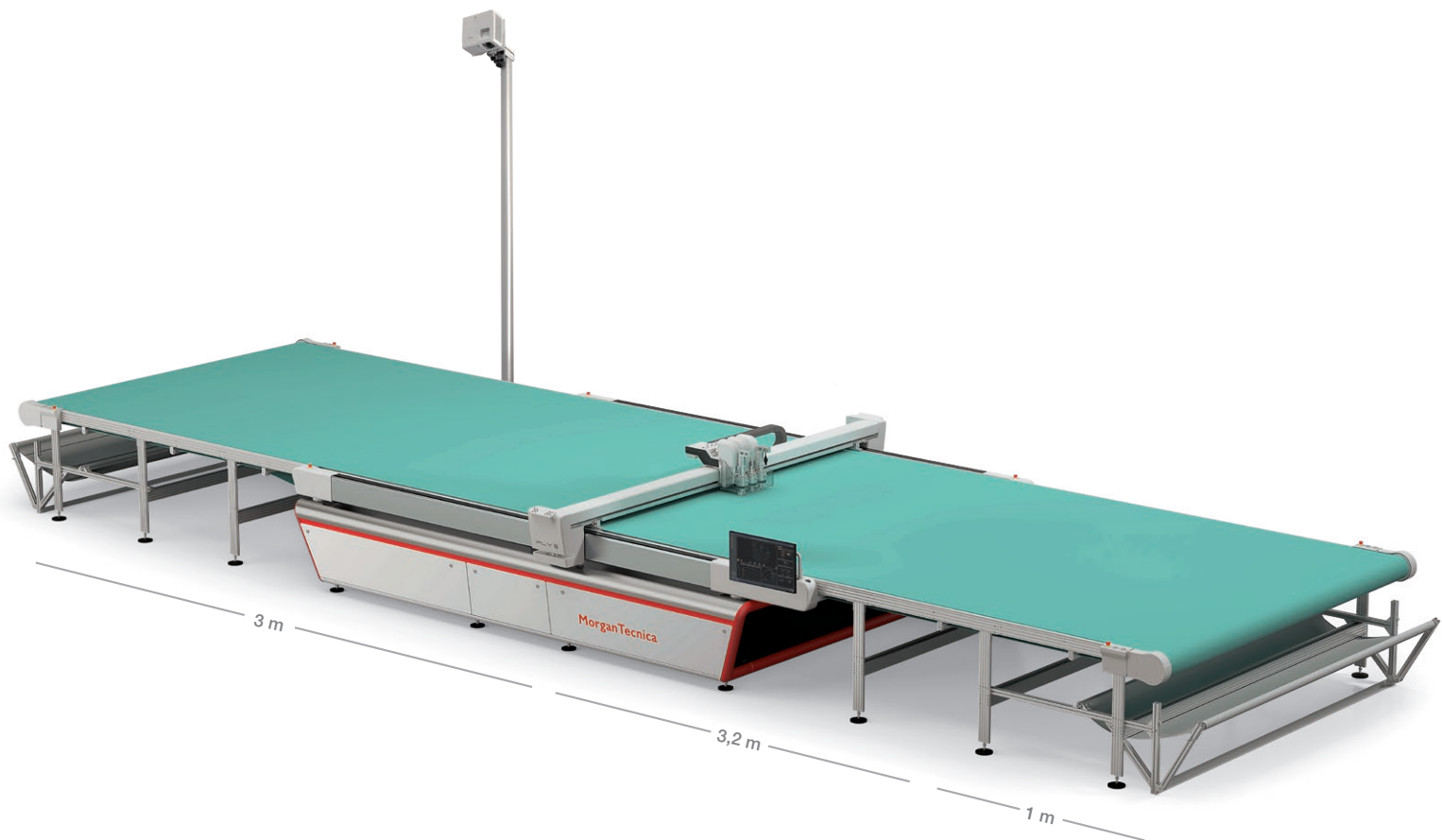
# PLY 1

LEATHER SOLUTION

IN LINE SOLUTION  
HYBRID SOLUTION



# THE PERFECT MANAGEMENT OF THE LEATHER CUTTING PROCESS



- Cutting area dimensions: 180x250 cm
- Cutting area dimensions: 220x250 cm
- Cutting area dimensions: 280x320 cm
- Power plants: 4,5+9/15 kW
- Average power consumption: 3,5 kW
- Acceleration up to 3G / Speed up to 180 m/min
- Humidity from 30% to 80% without condense
- Voltage: 400 V 3 Ph 50/60 Hz

# ADVANCED SOLUTIONS FOR THE LEATHER CUTTING ROOM

MorganTecnica transforms leather cutting into a highly efficient and precise process. We offer complete, modular solutions designed to adapt to different production needs while consistently delivering superior quality results.

## 2 MODULAR SOLUTIONS FOR EVERY REQUIREMENT

The MorganTecnica system combines our advanced Tetrax Leather software with the Ply1 cutting machine, creating a modular and scalable package suitable for any type of production. From small artisan workshops to more structured production lines, the system integrates seamlessly into your operational workflow. MorganTecnica solutions are ideal both for highly customized productions and for those who need to manage fabric and leather within the same process, as well as for mass-production environments. The result is a production cycle characterized by extremely precise cuts, optimized lead times, and maximum reliability.

- In Line Solution
- Hybrid Solution



Leather digitization — Nesting — Cutting — Quality control



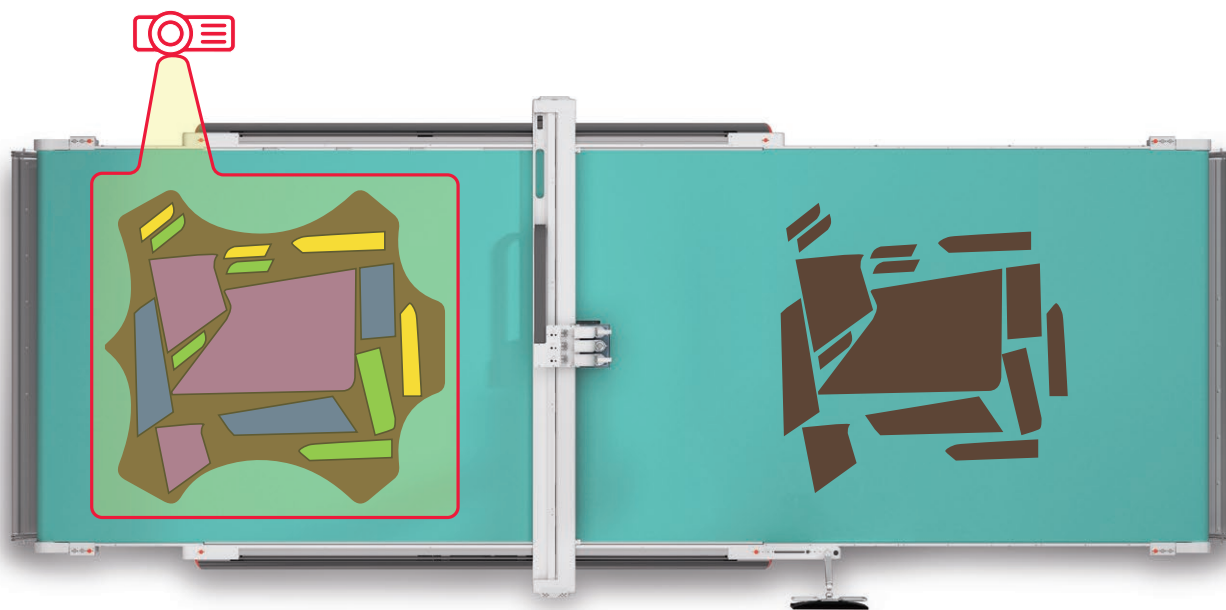
# 2TETRIX LEATHER. SMART NESTING AND PROJECTION FOR REAL LEATHER CUTTING



2TetrixLeather brings precision, flexibility, and projection-based control directly to the leather cutting room. Designed for furniture, automotive, and leather accessory producers, it introduces a modern workflow where nesting happens visually on the hide, directly on the machine, with total control before cutting. Installed on board with the **Ply1**, the software works exactly where production happens. Operators can choose between manual nesting for full craftsmanship control or automatic nesting assisted by smart recognition tools.

## PROJECT IT. POSITION IT. CUT IT.

2TetrixLeather projects pattern pieces directly onto the hide, respecting natural hide shape, defects, and quality zones allowing operators to position each component exactly where it belongs. After cutting, the pattern names are projected directly on the surface, allowing the operator to quickly and easily collect each piece without confusion.



## KEY FEATURES OF 2TETRIX LEATHER

- Installed on board
- Works exactly where production happens
- Full operator control with intuitive interaction
- Manual & Automatic nesting
- Nesting with hide imaging
- Quality zone recognition for optimized cutting
- Touchscreen-ready interface
- Menu-free software design
- Faster operations
- Morgana AI assistance
- Step-by-step operator support
- CAD integration
- Continuous digital workflow
- Designed for the new generation of operators
- Immediate learning curve
- Future-ready CAD platform
- Modern, non-legacy technology
- Developed & Made in Morgan

# IN LINE SOLUTION

< 50 HIDES / DAY

## 1. POSITIONING AND MARKING OF THE HIDES

The hides are positioned on the machine and marked according to their quality zones. This step allows operators to clearly identify the quality zones, ensuring precise material selection before cutting.

## 2. DIGITALIZATION AND NESTING WITH TETRIX LEATHER

The hide is digitally acquired and its quality zones are automatically detected by the 2Tetrix Leather software, preparing the surface for piece placement. Placement can be performed in two modes:

- **Manual Nesting:** Ideal for small volumes and custom production.

The operator places the pieces directly on the machine, ensuring maximum flexibility and full control.

- **Automatic Nesting:** Designed for higher volumes.

An integrated camera detects quality zones and the software automatically generates an optimized nesting, directly on the cutting machine.

## 3. CUTTING AND PIECE COLLECTION

Once nesting is completed, the hide is moved to the cutting area of the PLY1 machine. The cut pieces are then collected and transferred to the next production stages.

### Advantages of the two nesting modes

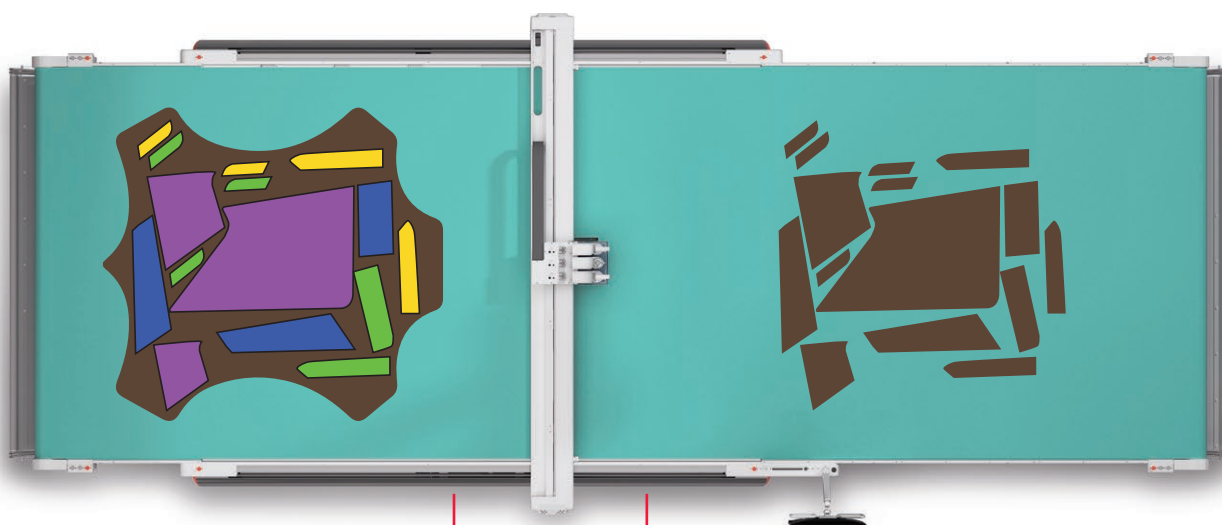
- **Manual Nesting**

High control for small batches and bespoke work. Simple, immediate, and ideal for limited production volumes.

- **Automatic Nesting**

Maximum efficiency for higher volumes. Reduced errors and optimized leather consumption thanks to the integrated camera and automatic algorithms.

### Full workflow on the cutting machine



- Flattening
- Manual Nesting: Computer/Video projector
- Automatic Nesting: CPU

- Cutting

- Monitor or / and beamer projection of parts incl.
- Sorting infos
- Picking

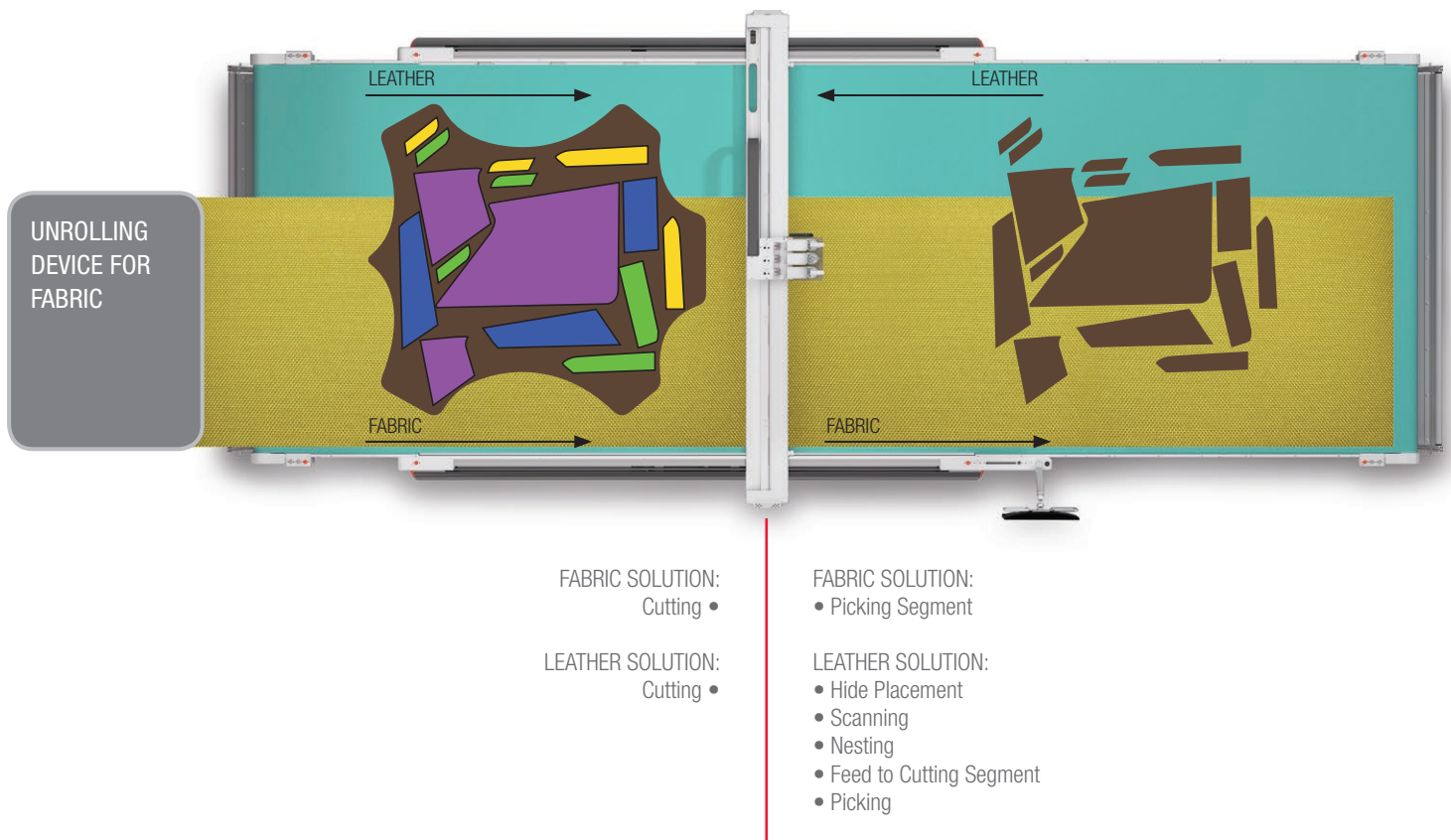
# HYBRID SOLUTION

< 50 HIDES / DAY

## CUTTING FABRIC AND LEATHER

This hybrid solution represents a strategic option for companies that primarily work with fabrics but also occasionally or complementarily need to cut leather. The system ensures versatility and efficiency, allowing for a seamless transition between materials and quick adaptation to different production needs.

Thanks to its ability to handle different materials without significant interruptions, the machine optimizes the entire workflow, reducing downtime and increasing overall productivity.



PLY 1  
LEATHER SOLUTION

IN LINE SOLUTION  
HYBRID SOLUTION



**MorganTecnica**

[www.morgantecnica.com](http://www.morgantecnica.com)    

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Company with integrated Management System  
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certificates TÜV SÜD Nr. 50 100 17906 and Nr. 50 100 17907