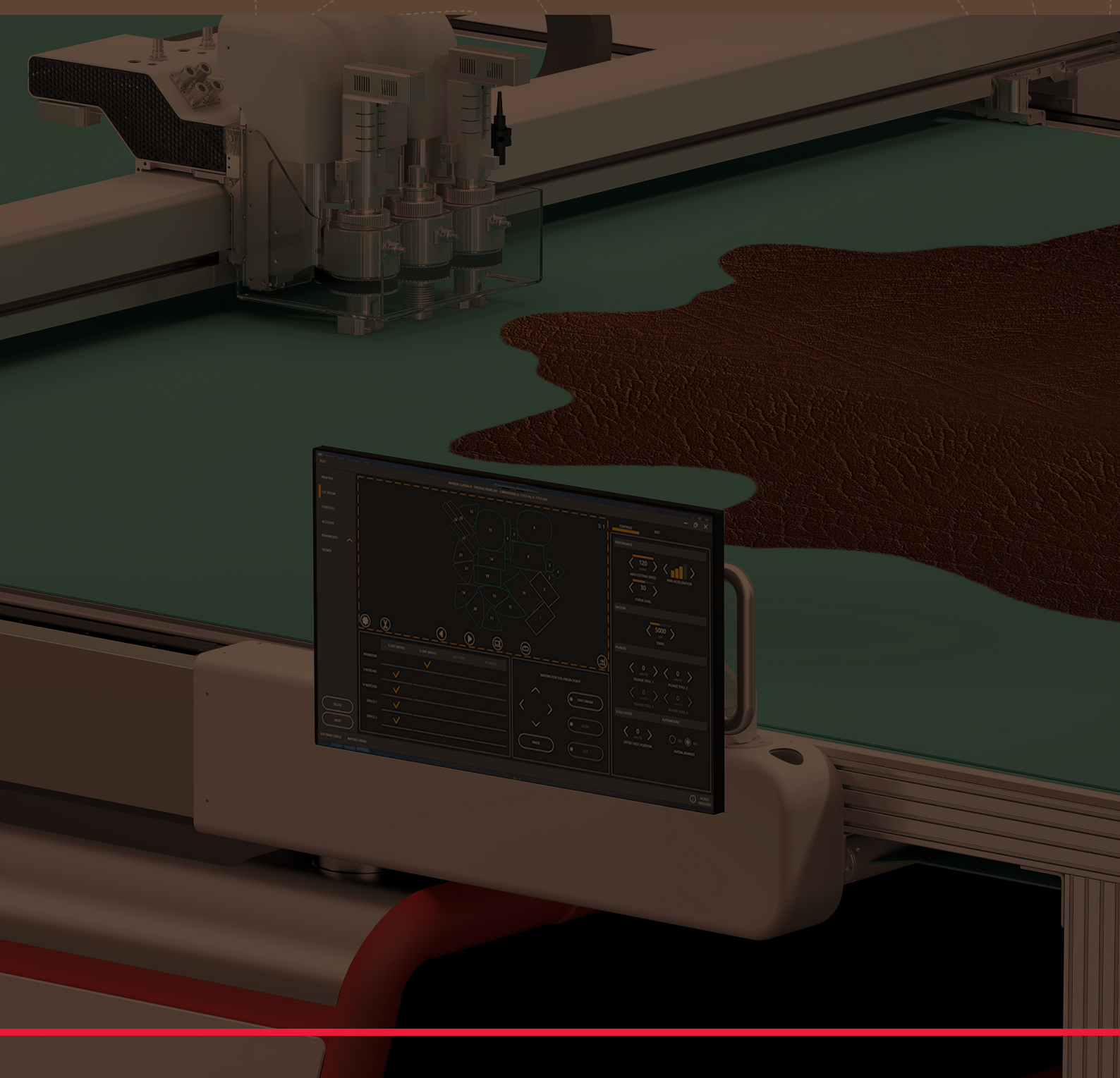


Morgan Tecnica

PLY 1

LEATHER SOLUTION

OFFLINE SOLUTION
Morgan Tecnica THAGORA[®]
by LEAR





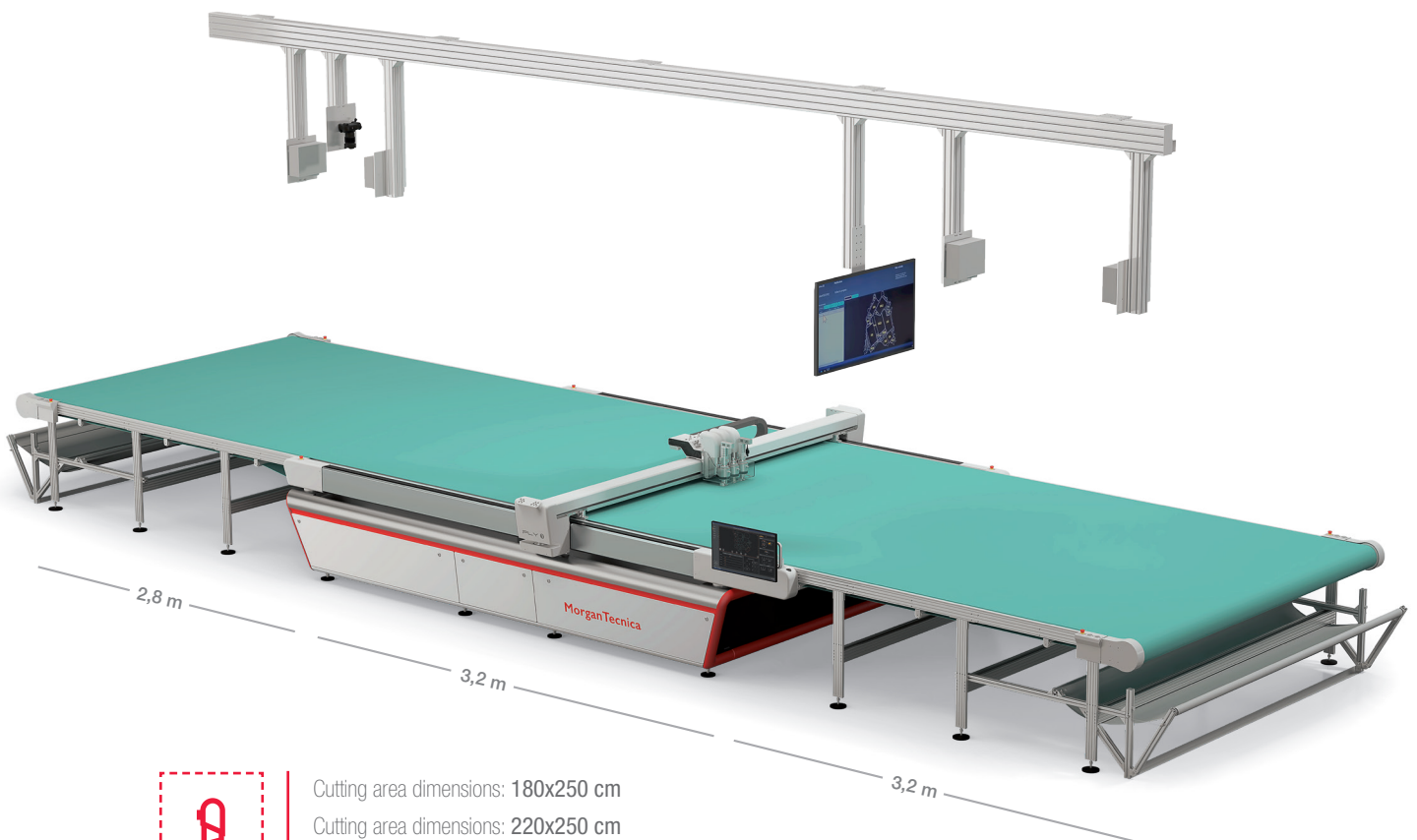
OFFLINE SOLUTION

> 100 HIDES / DAY

Morgantecnica & Thagora Advanced offline solution for the leather cutting room

The system combines Thagora software and hardware with MorganTecnica's PLY1 cutting machine, creating a modular and scalable package designed to handle medium- and large-volume productions, always ensuring high performance and reliability.

With the MorganTecnica & Thagora offline solution, you can easily manage both high-end customized productions and mass production runs, without compromising on precision, efficiency, or reliability.



- Cutting area dimensions: 180x250 cm
- Cutting area dimensions: 220x250 cm
- Cutting area dimensions: 280x3200 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

OPERATIONAL FLOW – PLANT FLOOR

1. DELIVERY AND STORAGE OF HIDES

Received hides are stored in the warehouse.

Information such as type, batch, and quantity is recorded in the Thagora database.

2. HIDE SCANNING

Based on the scanning work schedule, the required quantity of hides is brought to the scanning stations. Once all hides for a process have been scanned, they are transferred to the cutting area.

3. MULTI-HIDE NESTING

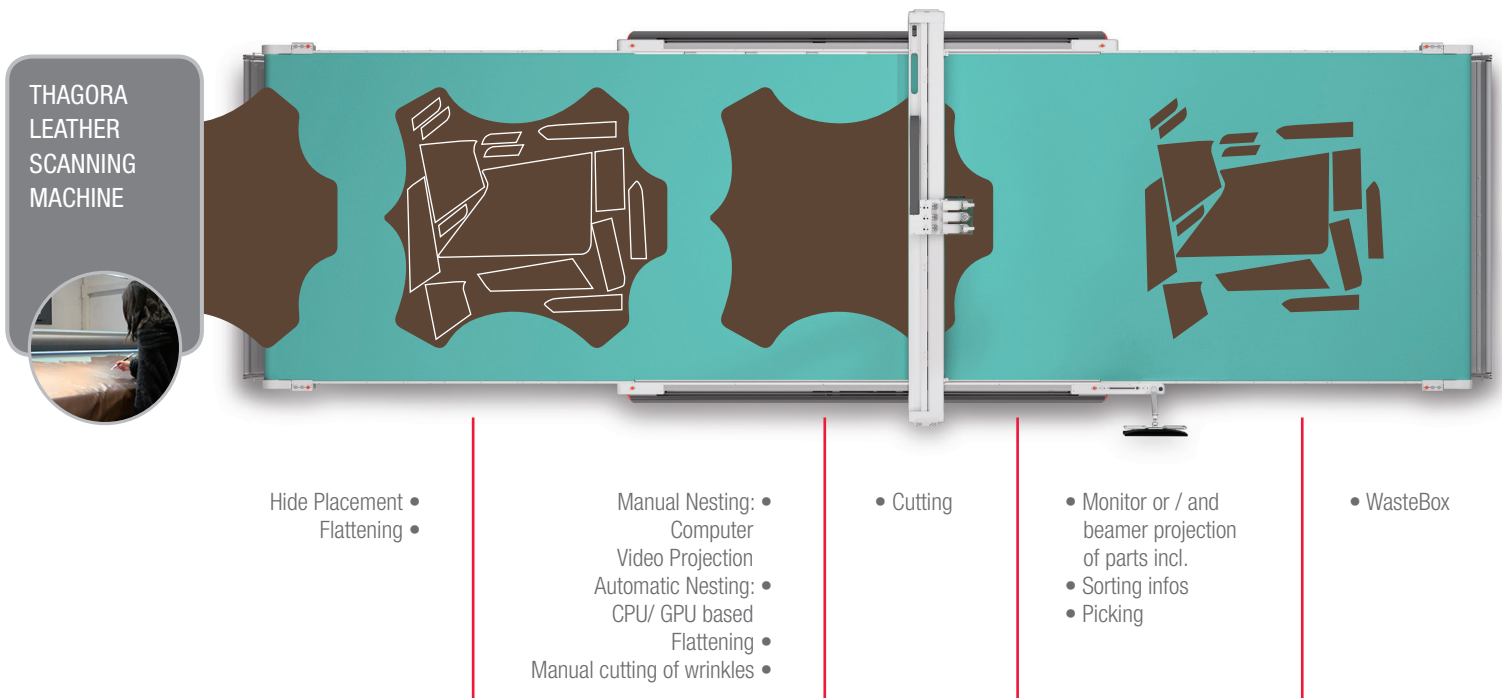
After complete digitization of the hides, the corresponding nesting jobs are automatically initiated. Upon completion, each job can be approved automatically or manually by the operator.

4. LEATHER CUTTING

- Approved jobs are ready for cutting.
- Hides are processed individually.
- The MorganTecnica PLY1 machine ensures high speed and precision.

The operator is supported by:

- Augmented reality for hide positioning
- An intuitive graphical interface to monitor and manage cutting
- Assistance with the collection of cut pieces.





5. QUALITY CONTROL AND PARTS GROUPING

- The operator checks the quality and quantity of cut pieces via the monitor.
- Pieces are packaged according to specific criteria.
- Final packages are sent to the sewing department.

Scanning, nesting, and cutting are carried out separately at distinct workstations.

The hides required for cutting are first selected and then scanned.

Once the last hide of the batch has been detected and digitized, the server automatically initiates the multi-hide nesting process, optimizing the arrangement of the pieces to be cut.

After nesting is completed, the hides are transferred to the cutting machine, where they are processed according to the generated instructions.

THAGORA SCANNER

The Thagora leather scanner is a machine designed for mass-production companies, engineered to ensure speed and precision in hide inspection.

The digital pen is used for marking without leaving traces of chalk or ink, preserving the integrity of the hides. The scanner leverages augmented reality to provide a fast, accurate, and reliable inspection process.

The machine is available for two working scenarios:

- **Analog** – Automatic digitization of pre-marked hides.
- **Digital** – Marking of defects directly on the conveyor using a digital pen.



PLY 1
LEATHER SOLUTION

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JANUARY 2026



MorganTecnica

www.morgantecnica.com

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Company with integrated Management System
UNI EN ISO 9001:2015 & UNI EN ISO 14001:2015
certificates TÜV SÜD Nr. 50 100 17906 and Nr. 50 100 17907