

Turn-key systems for leather processing



Your first choice in digital cutting.

Advantages of leather processing with a digital cutting system

Flexible

Zünd cutters offer maximum flexibility. Whole hides can be cut just as efficiently and economically as rolled materials. The digital workflow enables adjusting cut lines on the fly.

Efficient

Zünd cutting systems are setting new standards in speed and efficiency. Sophisticated nesting algorithms developed in-house maximize material yield and keep production costs low.

Reliable

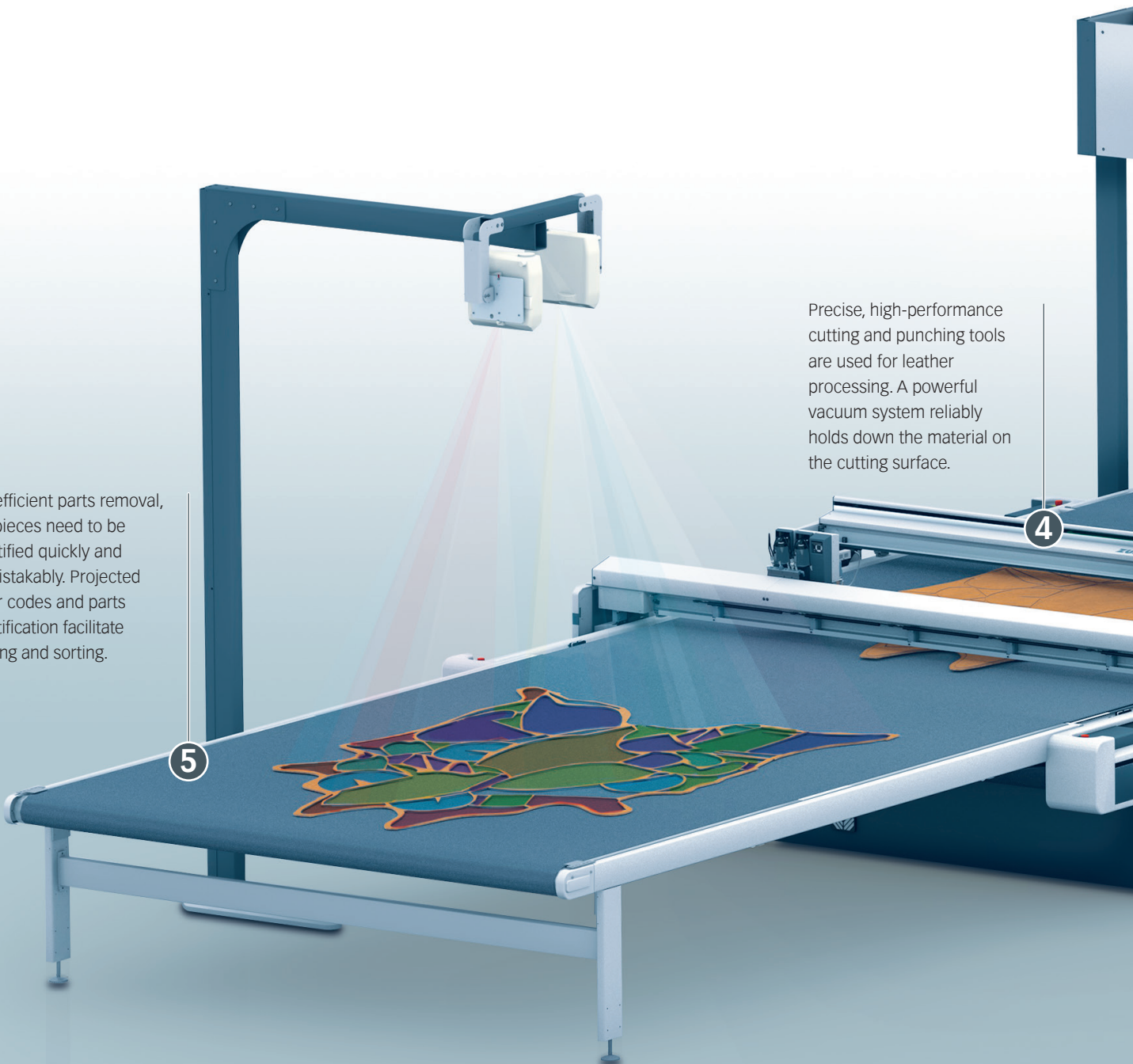
Zünd cutting solutions are legendary for their reliability. Particularly in industrial environments, reliability is an invaluable asset and the principal reason Zünd's highly automated cutters are well suited for autonomous, multi-shift operation.

For efficient parts removal, cut pieces need to be identified quickly and unmistakably. Projected color codes and parts identification facilitate picking and sorting.

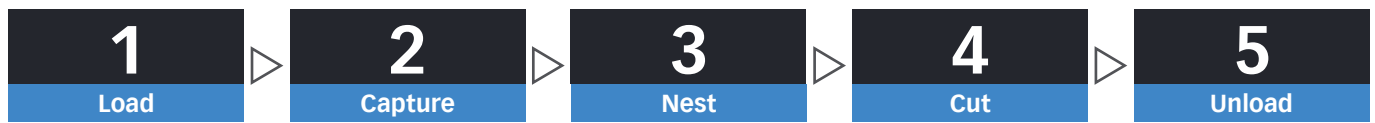
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Precise, high-performance cutting and punching tools are used for leather processing. A powerful vacuum system reliably holds down the material on the cutting surface.

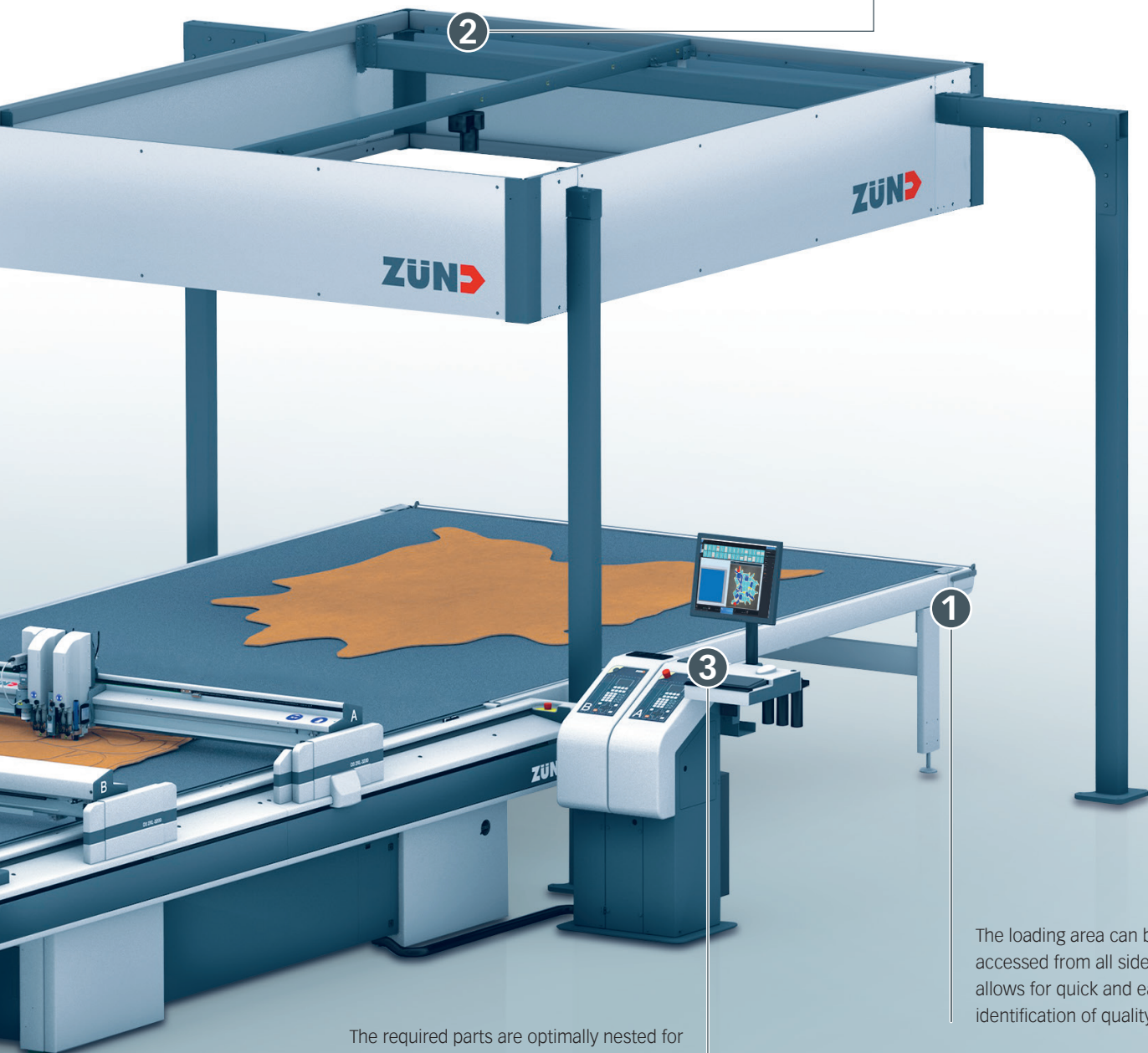
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Efficient leather processing in a digital cutting workflow



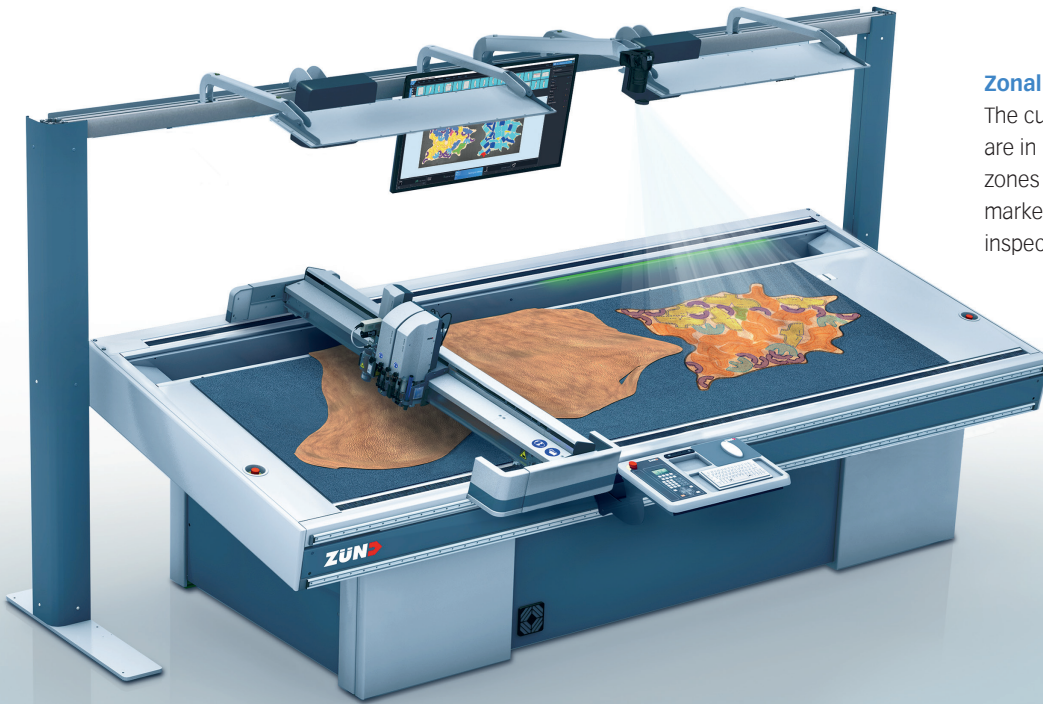
A camera captures the hide contour. Previously marked quality zones and flaws are detected automatically. The system supports both in- and offline capture.



The required parts are optimally nested for maximum yield. If necessary, the parts layout/nest can be projected directly onto the hide for visualization.

The loading area can be easily accessed from all sides, which allows for quick and easy identification of quality zones.

Modular hardware components for maximum customer benefit



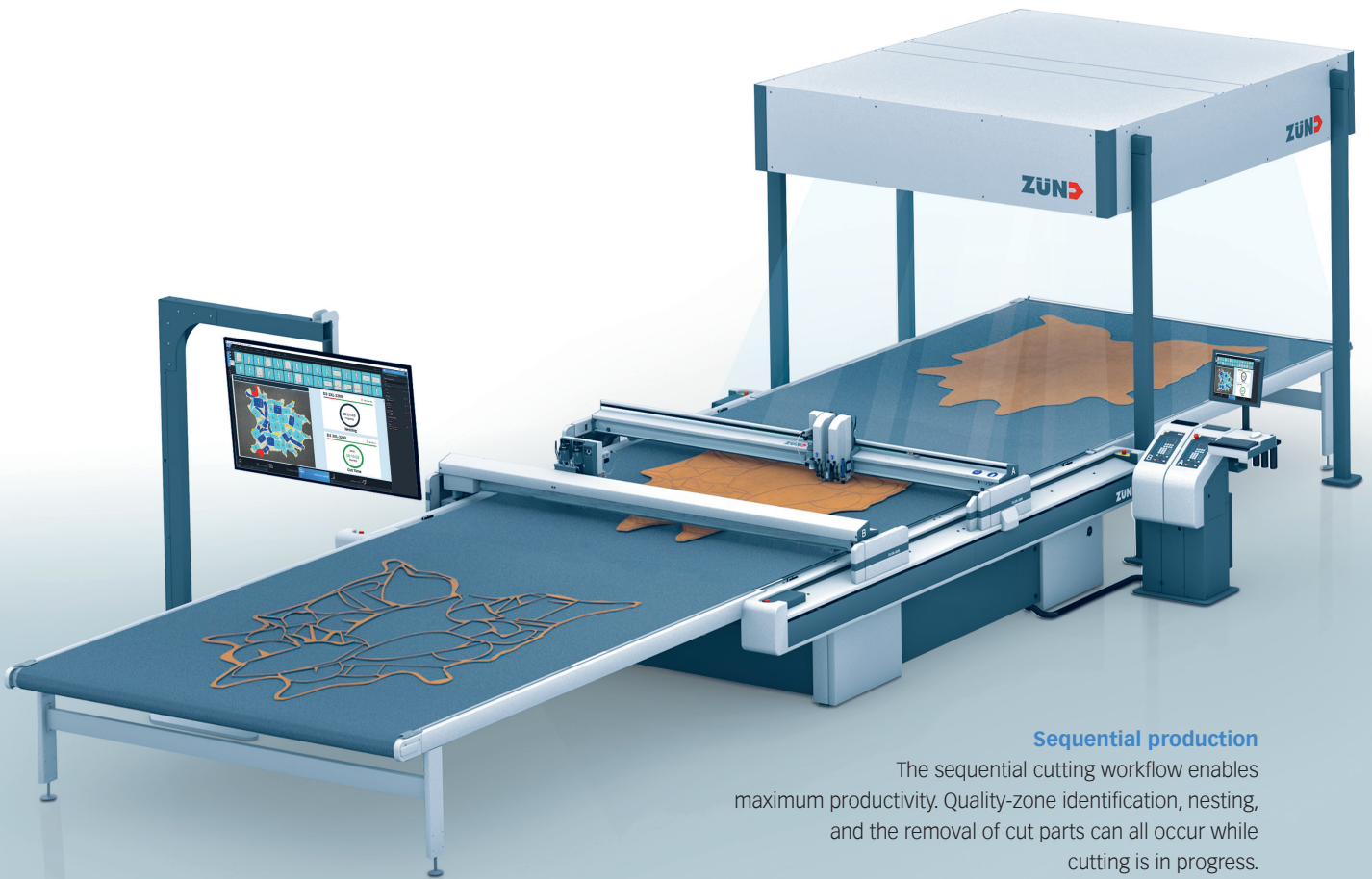
Zonal production

The cutting area in which cutting operations are in progress is automatically locked. Any zones that are open and accessible are marked green and can be used to prepare, inspect, mark, and nest the next hide.

Continuous production

In this workflow, parts can be manually nested directly on the cutter. With previously captured hides, the cutting process can begin immediately.



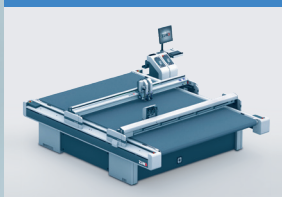


Sequential production

The sequential cutting workflow enables maximum productivity. Quality-zone identification, nesting, and the removal of cut parts can all occur while cutting is in progress.

Every turn-key leather-cutting system is built around a Zünd digital cutter. Optional components such as projection systems, cutter extensions, and cameras are added to create custom configurations based on individual production needs.

BASE



Zünd Digital Cutter



OPTIONAL COMPONENTS



Cutter extensions



Capturing Systems



Monitor gantries



Projection systems

Reliable material capture for maximum yield

Besides the hide contour, the system also accurately detects previously marked quality zones as well as flaws in the material.

Offline capture

Quality zones are marked with a non-contact digital pen. This task is performed in preparation for offline processing and is suitable for hides that cannot be physically marked.

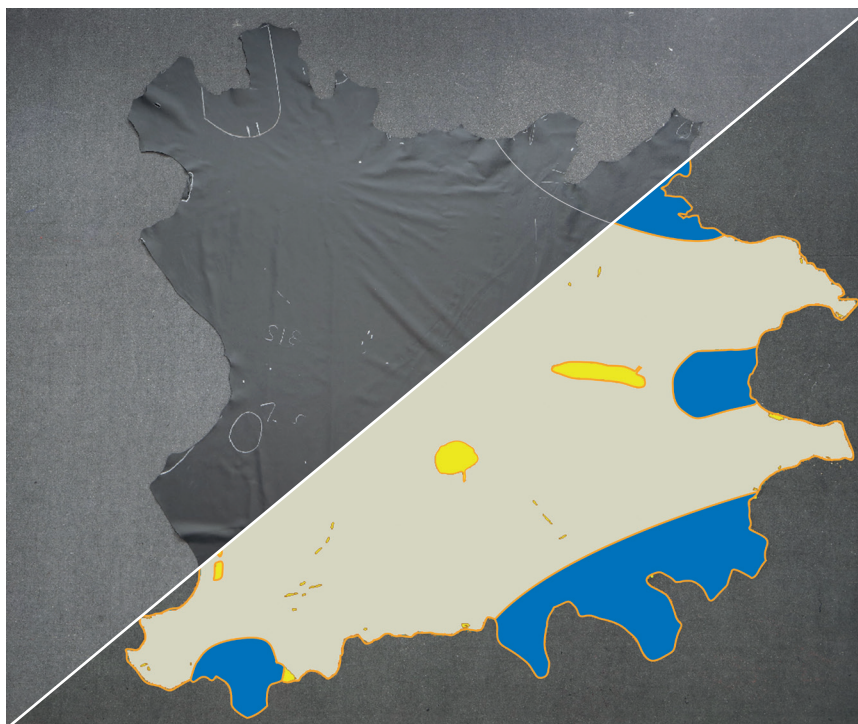
Inline capture

Using an optical detection system, marked hides are captured directly on the cutting system. They are subsequently processed inline.

Interactive material capture

Projectors are used to facilitate a fast, flexible hide-marking process. Particularly in conjunction with interactive nesting strategies, this ensures a simple and intuitive production workflow.

Marked hide in the working area



Powerful nesting functions for maximum efficiency

From manual process to total automation – Zünd offers efficient workflows for every nesting strategy.

Automatic offline nesting

For maximum efficiency, multiple orders can be distributed across several hides.

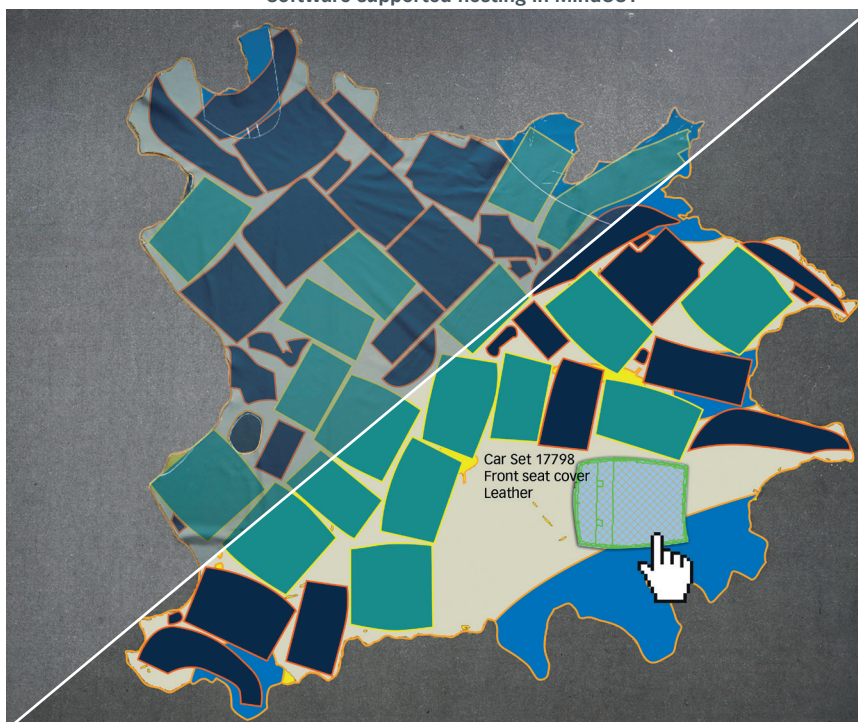
Automatic inline nesting

Parts are nested in a fully automated process. The system maximizes material yield while taking into account predefined quality zones.

Interactive Nesting

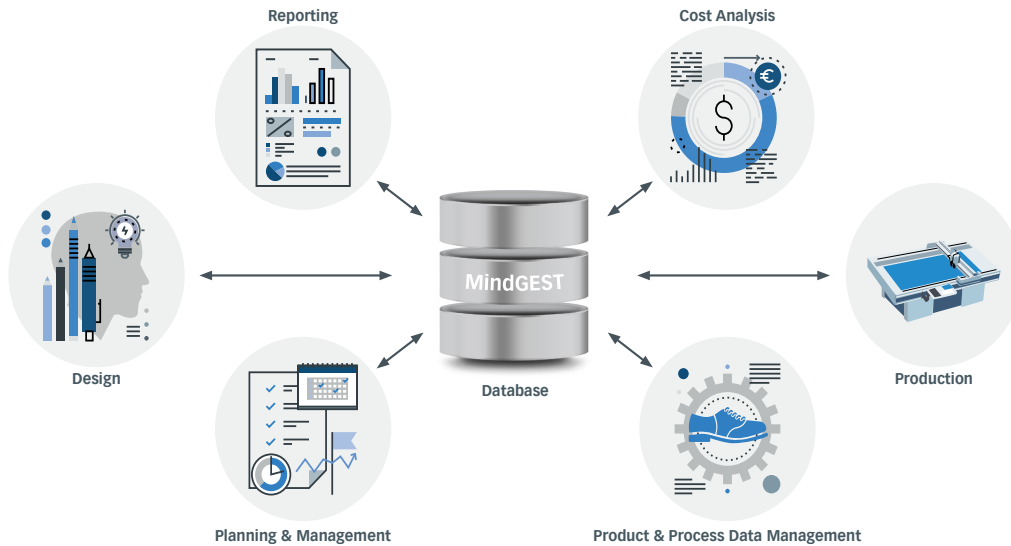
Parts are manually nested on the hide. Sorting algorithms accelerate and simplify sorting and nesting.

Software-supported nesting in MindCUT



Product & process management MindGEST

MindGEST combines order planning, design, production and reporting data and provides continual cost feedback. Production and processing data can be used for each phase of production:



MindCUT Model Importer

Import and classification of vector data as well as automatic processing according to user-definable parameters.

MindGEST PDM database

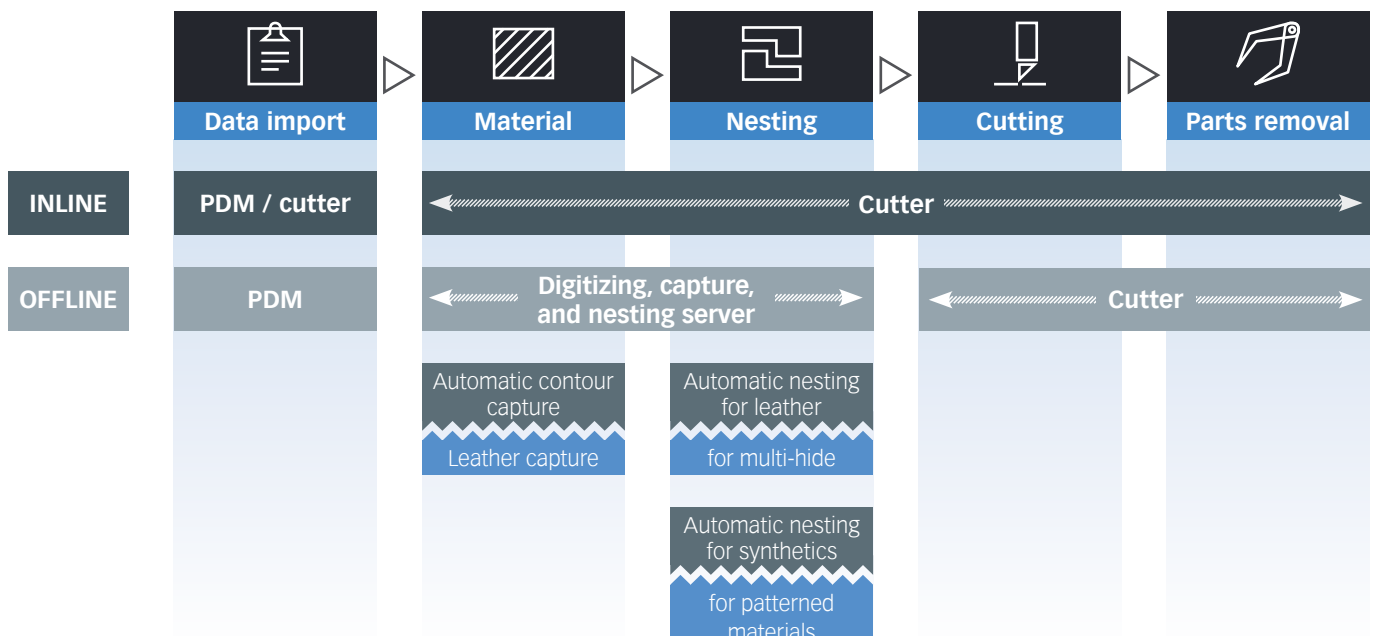
Database for saving digitized materials, nested layouts, cut files, etc.

MindGEST PDM Explorer

Access to MindGEST database from additional/remote workstation.

Modular software meets individual requirements

Mind software is modular. The base package, MindCUT Studio Production, includes all essential functions for various phases of digital textile cutting. Several add-ons are available for users to put together a software suite that perfectly meets their individual production requirements.



Zünd Systemtechnik AG
Industriestrasse 8
CH-9450 Altstätten
T +41 71 554 81 00
info@zund.com
www.zund.com

