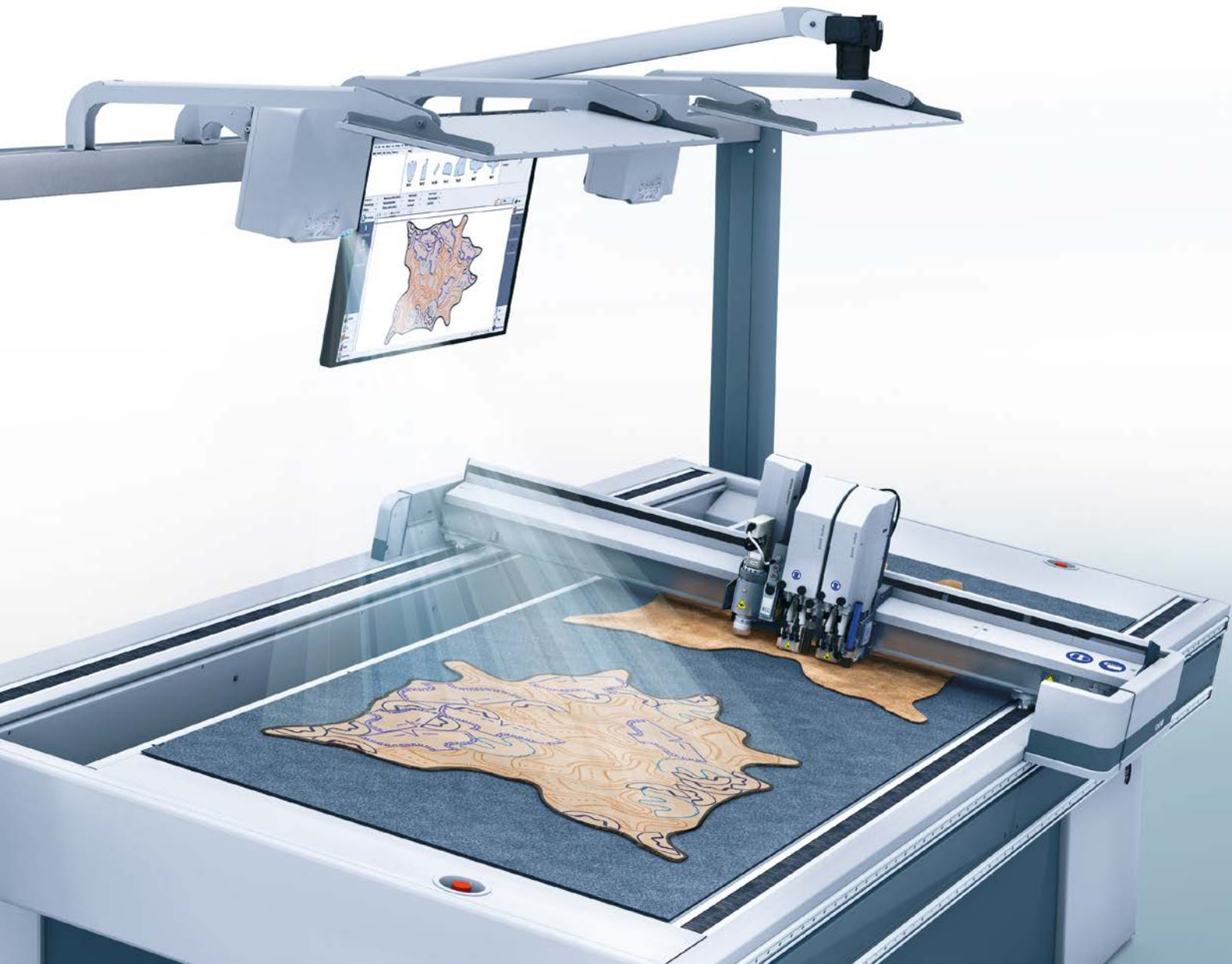


Turn-key systems for leather processing



Your first choice in digital cutting.

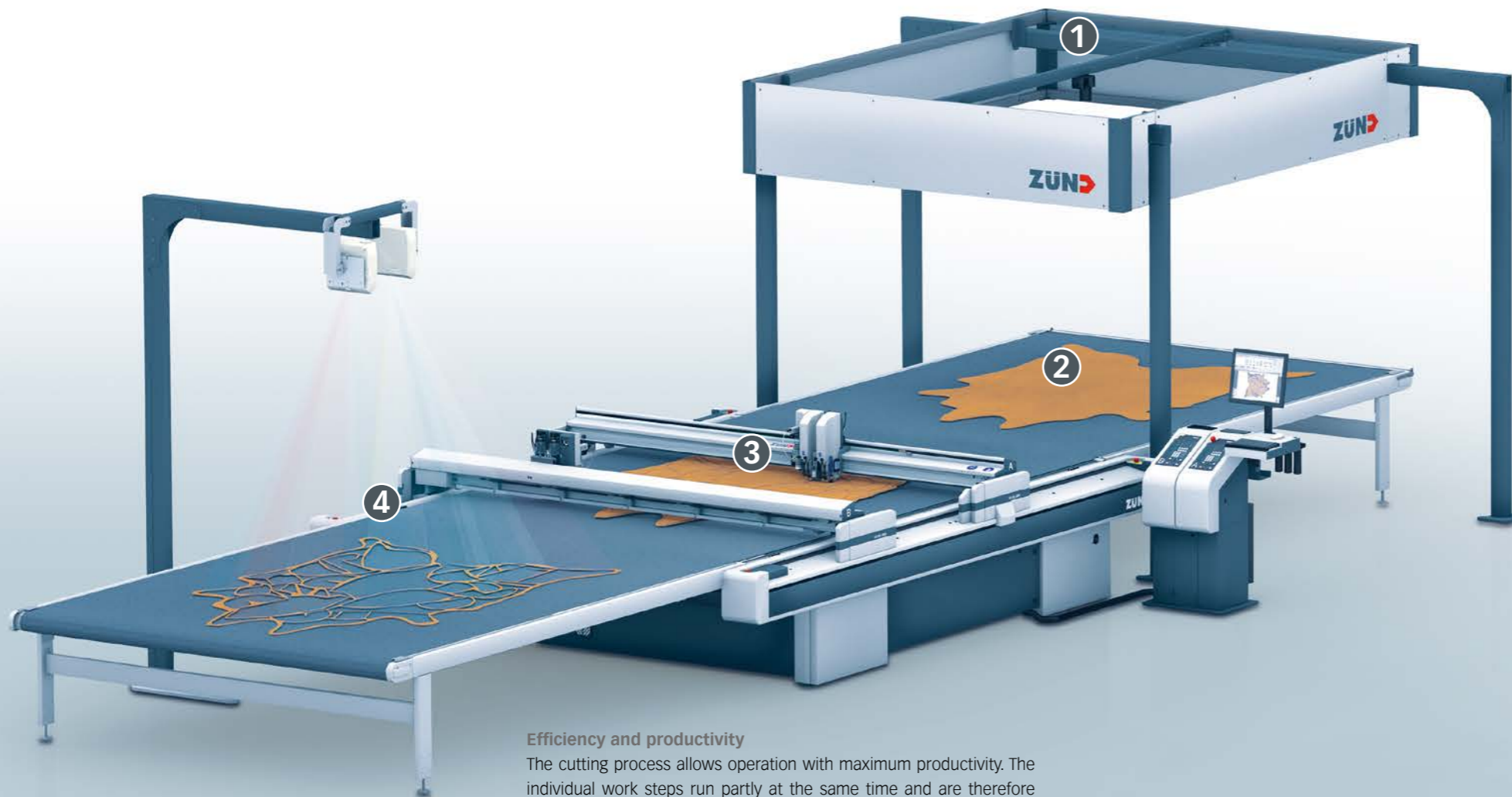
Efficient leather processing

Digital cutting workflow



Modular components for maximum customer benefits

Customized turn-key systems for leather processing are created with different optional components, such as projection systems, cutter extensions, and powerful software.



Efficiency and productivity

The cutting process allows operation with maximum productivity. The individual work steps run partly at the same time and are therefore perfectly coordinated with each other.

1
Capture
(optional)

The camera captures the hide contour. Previously marked quality zones and flaws are registered automatically.

2
Nesting

The required cut parts are optimally placed for maximum leather utilization. If desirable, the layout of the parts can be visualized via projection directly onto the hide.

3
Digital Cutting

After nesting the parts, the system proceeds to the next processing step – cutting and punching – with high-precision Zünd tooling. A robust vacuum system provides reliable material hold-down on the cutting surface.

4
Picking

For efficient parts removal, cut pieces need to be identified quickly and unmistakably. For this purpose, the parts are projected in color either on the hide or on the monitor.

Small leather processing Shoe production, accessories

Interactive nesting

The S3 and L3 series are ideal for half bovine and other smaller hides. The typical setup involves projecting the parts directly onto the material and laying them out manually. A camera for capturing the hide contour is available as add-on. The projection system can also be used for identifying similar small parts and facilitating the sorting/off-loading process.



Cutter sizes (working area)

L3 C-40 (1000x2300 mm / 39x90.5 in)

L3 C-56 (1000x3270 mm / 39x128.5 in)

Options

- Support frame
- Lighting
- Camera bracket
- Projector bracket
- Monitor bracket
- Roll-off unit

Cutter size (working area)

S3 M-800 (1330x830 mm / 52x32.5 in)

Options

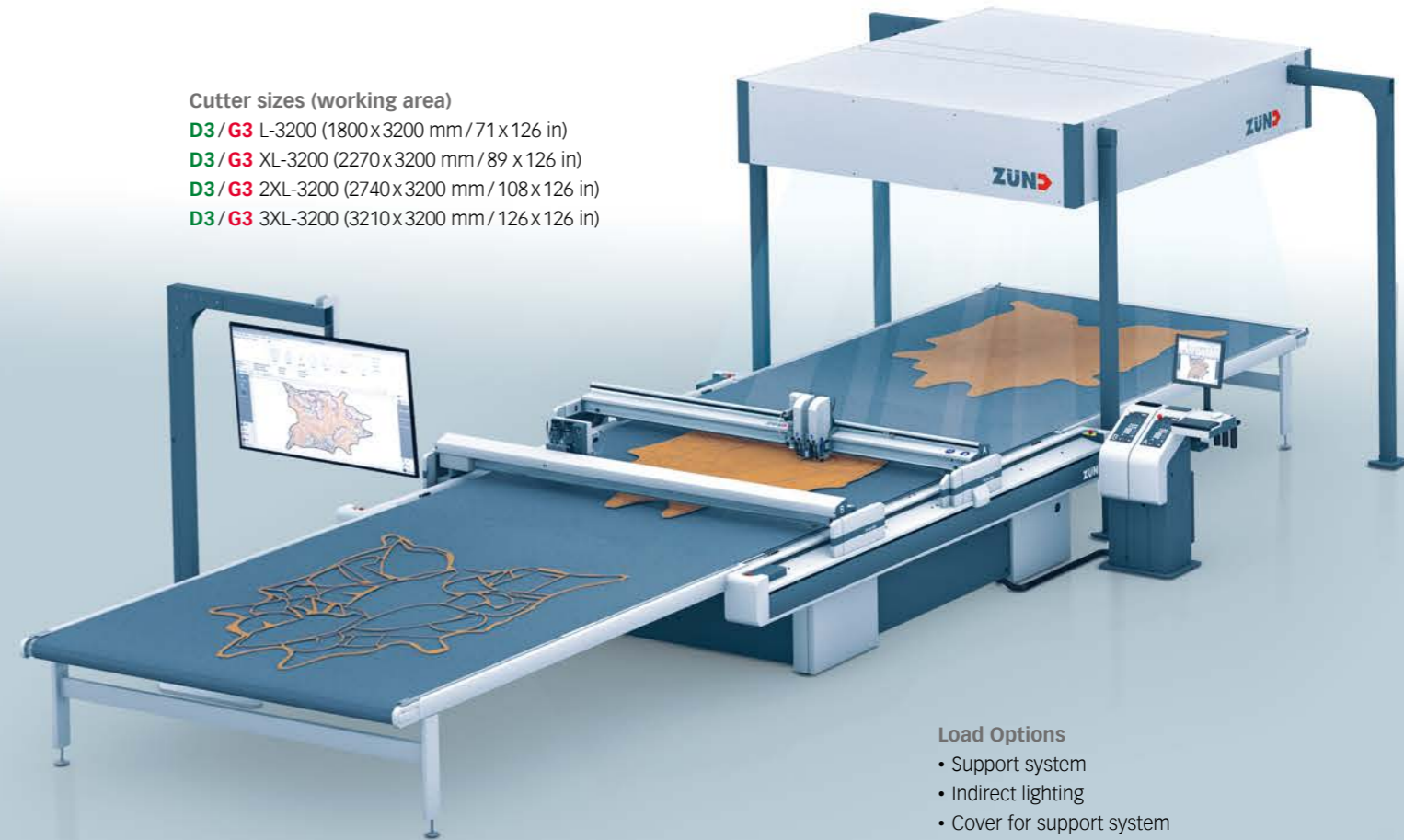
- Gantry
- Camera bracket
- Projector bracket
- Monitor bracket
- Cutter extensions (front/rear)
- Roll-off unit



Large leather processing Automotive and furniture industry

Automatic nesting

The G3 and D3 are the preferred cutter series for processing full hides. A camera captures both the hide and previously marked quality zones. Using this information, the system subsequently nests parts automatically.



Cutter sizes (working area)

D3 / G3 L-3200 (1800x3200 mm / 71x126 in)

D3 / G3 XL-3200 (2270x3200 mm / 89 x 126 in)

D3 / G3 2XL-3200 (2740x3200 mm / 108x126 in)

D3 / G3 3XL-3200 (3210x3200 mm / 126x126 in)

Off-load Options

- Gantry
- Projector bracket
- Monitor bracket
- Cutter extensions

Load Options

- Support system
- Indirect lighting
- Cover for support system
- Leg extensions
- Camera bracket
- Projector bracket
- Monitor bracket
- Cutter extensions
- Roll-off unit

Software Components

MindCUT Control & Automation

From hide capture to parts nesting and sorting, MindCUT supports and facilitates the entire production process with powerful, effective software functions:

Capture

Automatic Leather Capture Light

Precise capture of hide contour via camera system.

Leather on the working surface

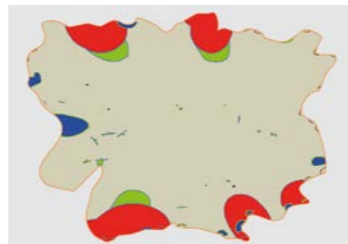


Captured leather in MindCUT



Automatic Leather Capture

Besides the hide contour, this function also automatically captures previously marked quality zones and flaws in the material.

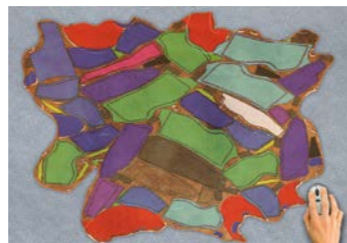


Nesting

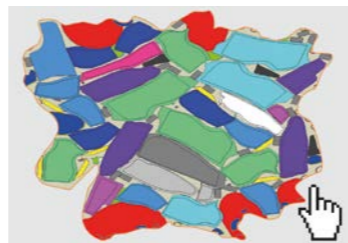
Interactive Nesting

Manual layout of parts on the hide. The user performs the nesting manually and creates the desired layout.

Nesting with projection

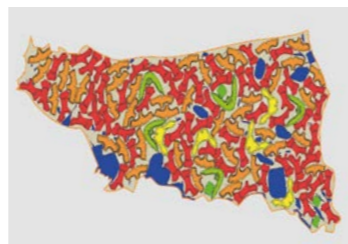
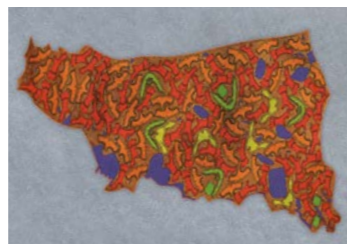


Nesting in MindCUT



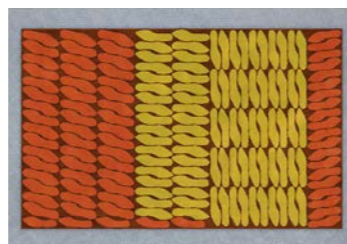
Automatic Nesting for Leather

Fully automatic layout and nesting of parts on the hide. This maximizes material usage while taking into account previously captured quality zones. Alternatively, it is also possible to manually place selected parts and automatically nest the rest.



Simple Automatic Nesting for Synthetics

Fully automated nesting of parts on manufactured (rolled) materials, e.g. synthetic liners.



Picking

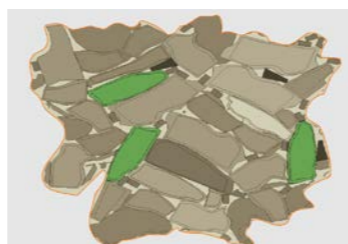
Parts Pickup Support

Visually assisted picking and removal of cut parts. Identical or related parts are projected in different colors. This facilitates quickly and precisely identifying parts for a certain shoe size or specific chair model, and maximizes the efficiency of the sorting/removal process.

Part removal with projektion



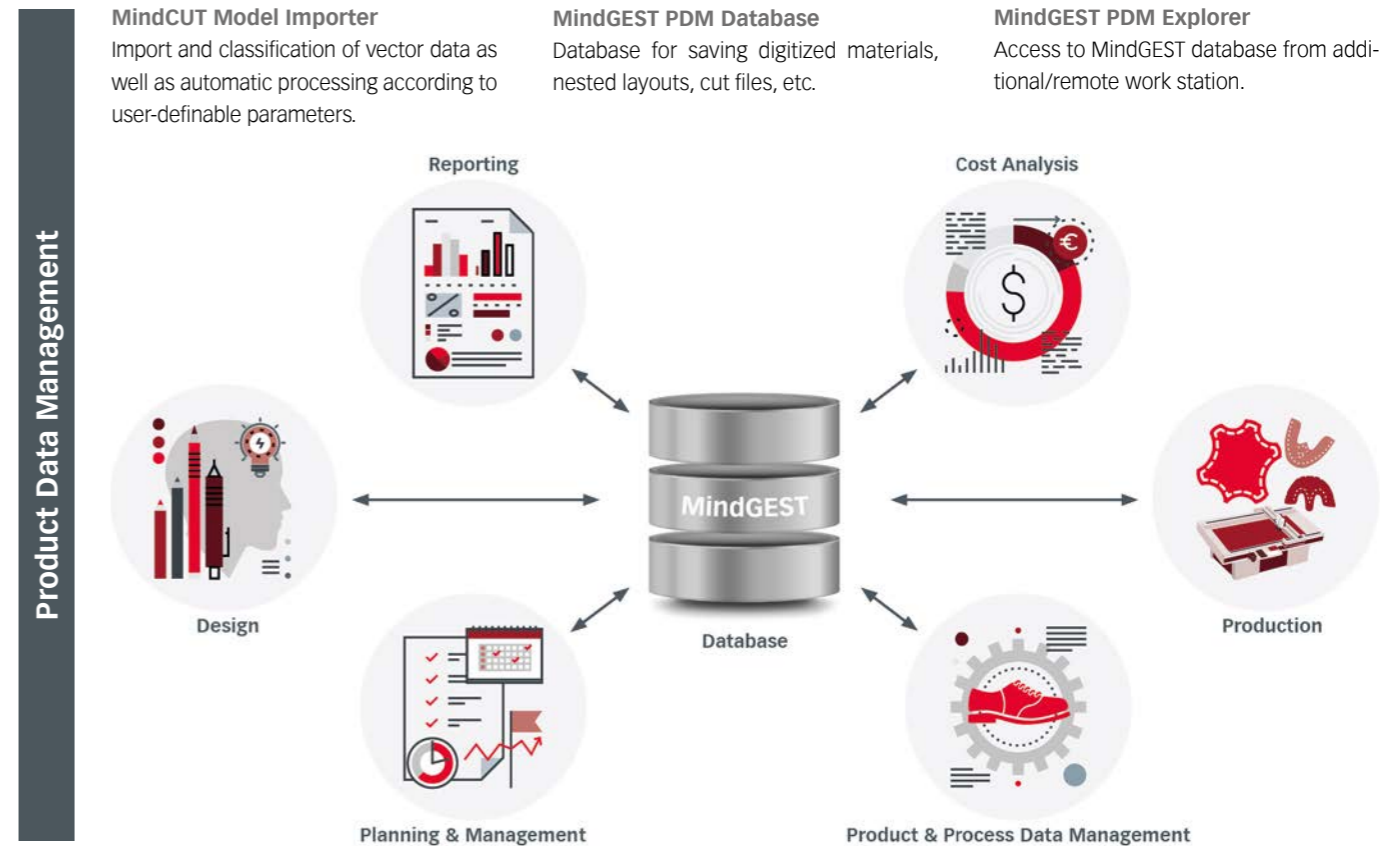
Display in MindCUT



Software Components

MindGEST Product & Process Management

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:



Software Overview

MindCUT & MindGEST

Mind software is modular. The base package, MindCut Studio, includes all essential functions for various phases of leather processing. To complement these, the user can choose from several powerful add-ons and build the MindCut suite that perfectly fulfills individual requirements:

Processing Phase	Functions	included in MindCut Studio	optional, available separately
Capture	Automatic Leather Capture Light		✓
	Automatic Leather Capture		✓
Nesting	Interactive Nesting	✓	
	Automatic Nesting for Leather		✓
	Simple Automatic Nesting for Synthetics	✓	
Picking	Parts Pickup Support	✓	
Product Data Management	MindCUT Model Importer		✓
	MindGEST PDM Database		✓
	MindGEST PDM Explorer		✓

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