Turn-key systems for Textile processing



Your first choice in digital cutting.



Advantages of digital cutting with a single-ply cutter

Automation

Single-ply cutting is the answer to changing demands in the textile industry. In an increasingly digital production environment, order sizes are smaller, order cycles shorter, and the degree of customization keeps increasing. Lot size 1, fast fashion, and mass customization are among the hottest trends. High-performance digital cutting systems from Zünd, combined with highly advanced yet intuitive software, enable fully automated digital cutting without manual intervention.

Zünd single-ply cutters stand out

on options. From feeding to advancing,

material detection and cutting, ever-

ything happens completely automati-

cally. Picking/sorting, the final step, is

Flexibility

fiber, the cutter delivers perting tools offers maximum flexibility.

Efficiency

Zünd single-ply cutters are setting new Zünd D3 cutter delivers ultimate perbeams operating simultaneously. Sophisticated nesting algorithms increase material yield and help keep production costs low.

Creating an ultra-efficient workflow for processing textiles



(2)

For efficient removal, cut parts need to be identified quickly and unmistakably. To facilitate picking/sorting, the system projects color codes and other relevant data onto the parts for efficient removal.

5

Textiles are cut to shape with high-performance tools. The vacuum system provides reliable hold-down during the cutting process.

> Powerful nesting software positions parts as tightly as possible for maximum material yield, and a marker is created automatically.

ZUN

A camera captures the fabric that needs to be processed and its exact position and dimensions, no matter whether the material is plain, printed, or patterned



terial-handling options that facilitate loading/feeding and tension-free advancing.

Maximum efficiency: **Nesting parts on plain fabrics**

High-performance digital cutting technology combined with high-precision tooling, advanced vision systems, and highly efficient software: standardized data is imported and processed at the push of a button. The software recognizes part and marker-based data and also enables the creation of new markers.

Material recognition

A high-resolution camera autothe material, and the cut contour marked material defects.

Nesting

Parts are optimally placed for mathe nested parts can be projected directly onto the material for veri-

Simple operation

Perfect pattern matching on textiles

Dots, squares, horizontal stripes - advanced registration systems are capable of recognizing patterns automatically and reliably. In a matter of seconds, the system makes the necessary adjustments for perfectly matching markers to the pattern at hand.

Pattern matching

for pattern matching, regardless of whether part sizes need to be retained or part contours re-positioned for pattern matching.

Material database processing and also stores pat-



Software-guided picking/sorting

To assist the operator in picking/ sorting, the system color codes the cut parts, which makes the job

Flexible and precise: **Processing custom-printed textiles**

Custom digitally printed fabric is in vogue. Zünd's print & cut workflow provides cohesive, end-to-end data flow. Because of their open interface, Zünd cutters can be easily integrated in existing production environments and enable efficient cutting of custom-printed textiles using register marks for matching cut to print.

High-speed digital capture The high-resolution optical regisregistration process now takes pla-

Find & Match

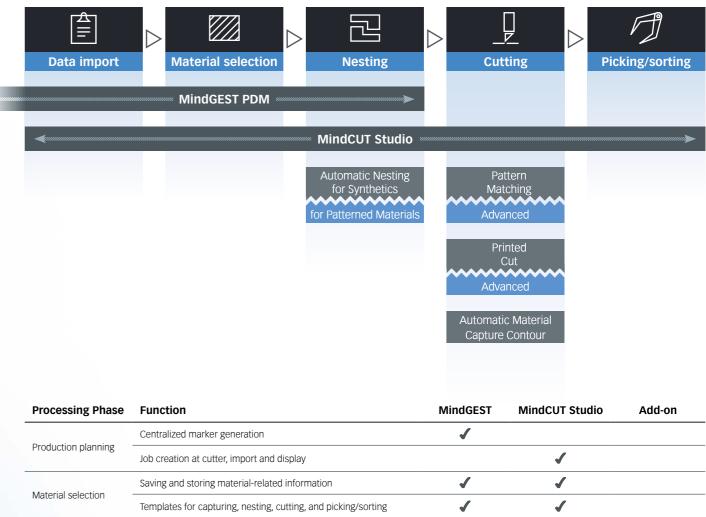
reliably recognize their position.

Creating a cut file

can automatically generate one.

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 fulfills their individual requirements.





Basic nesting for automatic parts placement High-efficiency nesting for standard rolled materials Nesting Automatic nesting for patterned fabrics Automatic capture of irregular material contours Automatic recognition of material position Detection of marked material defects Cutting Automatic pattern recognition Registration of printed images using register marks/outlin Cutting data generation based on printed outlines Display of information via projection or monitor Color projection indicating related cut parts Picking/sorting Additional information displayable in plain text Various off-load strategies for projecting/sorting order components



rting	1	
	✓	
		1
		1
		1
	✓	
	√	
		1
nes		1
		1
	✓	
	✓	
	✓	
omponents	1	

