

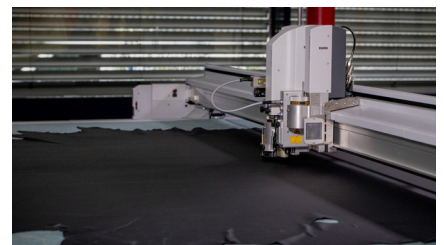
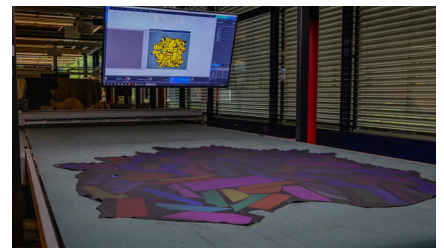
Dectura: Flawless Automated Defect Detection to Perfect Cutting

Dectura represents a paradigm shift in leather processing — moving from subjective, manual operations to a digital, data-driven workflow that maximizes both quality and efficiency. This integrated approach delivers value greater than any single system could achieve alone, setting a new standard for the industry. Dectura combines three best-in-class technologies working together in perfect harmony.

Mindhive FinishSelect™: AI-powered quality assessment system automatically detecting and mapping defects in just 15 seconds per hide.

MindCUT: Advanced nesting and cutting software that utilizes defect data to optimize pattern placement and maximize material utilization.

Zünd digital cutting systems: Swiss engineering for versatile, high-performance digital cutting in leather processing.



The Dectura Workflow



The AI-powered quality assessment system Mindhive FinishSelect™ revolutionizes finished leather inspection, detecting and mapping defects with 0.17 mm precision in just 15 seconds per hide. Advanced machine learning algorithms identify 20+ defect types while customer-specific Natural Feature Guide (NFG) rules ensure tailored grading standards. This cutting-edge solution delivers digital defect mapping with unmatched classification accuracy, comprehensive quality grades, and real-time analysis — processing 1000 up to 1920 hides per 8-hour shift.



MindCUT is an advanced digital cutting software, developed for leather and textile cutting with a Zünd cutter. It utilizes defect data from Mindhive FinishSelect™ through a native interface for smart and efficient nesting of cut parts. For best nesting results, MindCUT makes use of Mindhive FinishSelect™ data and is capable of optimized multi-hide nesting. The digital cutting software offers comprehensive production planning tools and analytics features.



Zünd stands for precision, innovation, Swiss quality and longevity. For more than 40 years, Zünd manufactures digital cutting systems in Switzerland, with an existing customer base of more than 15'000 customers worldwide. Thanks to the worldwide sales and service network of Zünd subsidiaries and trusted authorized resellers, the best possible consulting experience throughout the sales process as well as the best and most responsive after-sales support are guaranteed.

Zünd cutters adapt and grow with changing needs and customer demands, thanks to their modular construction and their robust industrial design for reliable, long-lasting performance. In combination with the leather cutting software MindCUT, a Zünd cutter is the best investment into a future-proof leather processing workflow. From a small-footprint L3 cutter, a highly versatile and performant G3 cutter, up to a dual-beam D3 cutter for the highest performance and

throughput: Zünd cutters are developed to integrate seamlessly into your leather processing workflow – from hide capture and classification with Mindhive FinishSelect™ through nesting up to digital cutting, sorting and picking of cut-parts.

With the complete Dectura line, you get a constantly repeatable and reliable hide analysis and defect detection that revolutionizes your leather processing workflow.

Mindhive FinishSelect™ offers a new technology that combines the latest camera and AI technologies to the application of leather hide selection, measurement and defect detection. With the experience of the industry leading digital leather cutting software MindCUT and Zünd digital cutting systems, the Dectura line offers a game-changing, reliable and versatile upgrade to your production.

Details

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| High-resolution camera array with machine vision-specific lights |
| Proprietary AI algorithms identify 20+ defect classes |
| Customer-specific Natural Feature Guide (NFG) rules |
| Digital defect mapping with precise classification |
| Comprehensive reporting with hide image, defect map, and grade |
| 24" display with intuitive interface |
| NVIDIA GPU-powered processing server |
| Ruggedised industrial enclosures |
| High-resolution .DXF export for downstream processes |
| Integrated deionizing system eliminates electrostatic dust build-up during leather transport on the conveyor |
| Thickness profile is evaluated for each hide, to identify thickness related defects within the grading rule-set |
| ERP integration with downstream material handling solutions, for enhanced operational efficiency |
| MindCUT digital cutting software ensures smart and efficient nesting of cut parts as per defect data from Mindhive FinishSelect™ |
| Developed for the integration of Zünd digital cutters L3 , G3 or D3 |

Benefits at a glance

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| Full select, measure, grading and defect analysis of a hide in just 15 seconds |
| Labour saving on inspection, marking, rework, rejected finished parts |
| Improved accuracy and consistency of hide selection |
| Streamlined production with digital defect mapping |
| Improved takt time and therefore capacity – throughput: between 1000 and 1920 hides/shift possible |
| Digital marking consistency 24/7 |
| Intelligent parts nesting and high-performance digital cutting |
| Improved yield due to more accurate and consistent marking: Accuracy is down to a hair follicle – about 0.17 mm |
| Less re-cuts as hides are consistently digitized; less re-cut handling costs and all defects have been captured |
| Less costs at final quality inspection stage |
| Zero chalk marks on cut components – no post-cut cleaning |
| Reduced factory footprint due to one combined system |
| Centralized inspection capability with one Mindhive FinishSelect™ system supporting multiple Zünd digital cutters |
| Data insights for quality management and production optimization |

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