

Optiline

The cutting line visualization software
for your band saw

Maxicut

The cutting pattern optimization software
for your band saw



Cutting line visualization

Optiline Basic is the cutting line visualization software for controlling the log alignment on your band saw carriage. In combination with the cutting pattern optimization software Maxicut, this system inspects the cutting pattern on the real log image for optimizing breakdown.

Optiline Basic virtually projects the optimized cutting pattern on the live images of the head and tail end of the logs. This allows the cutting pattern to be inspected and, if necessary, to be manually modified on the respective log. Furthermore, the software allows to correctly rotate and align the logs in front of the band saw. Optiline Basic takes into account all measurement parameters, from contours to irregularities and flaws.

Optiline, together with Maxicut, controls saws, clamping blocks, and subsequent processing stages. Based on existing orders and customer-specific final product requirements, Optiline simulates production yield during the work preparation process. Optiline performs best in combination with exact 3D log data from the scanner [Logeye 300](#).

Multiline Logeye - 3D Log Shape Scanner on the saw carriage

Optiline 3D Log Shape Scanner measures the log shape directly on the band saw carriage. The visible part of the log will be measured after a short longitudinal movement on the saw carriage. The optional 3D Log Shape Scanner is based on laser triangulation and can be easily integrated into existing plants.

Logeye 300 – Longitudinal 3D Log Shape Scanner

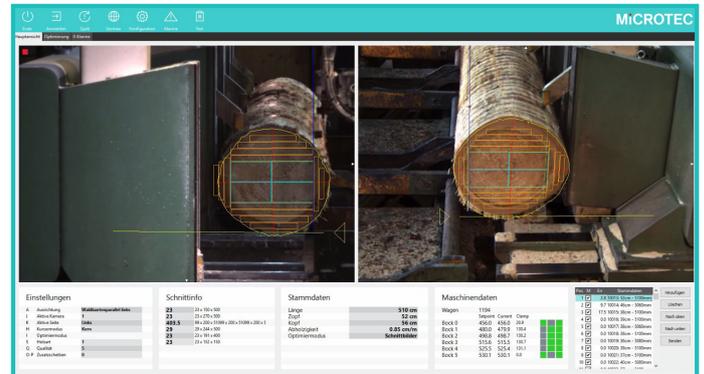
A Logeye 300 can be installed on the saw infeed. As a result of the exact 360-degree 3D profile, the position of every log on the carriage can be precisely determined by Multiline Logeye or Logeye 901D Stereo (3D Fingerprint). Through a full 3D profile, the logs are optimized for breakdown in order to be sawn according to the volume-maximizing cutting pattern.

Logeye 901D Stereo – Stereoscopy Log Shape Scanner on the saw carriage

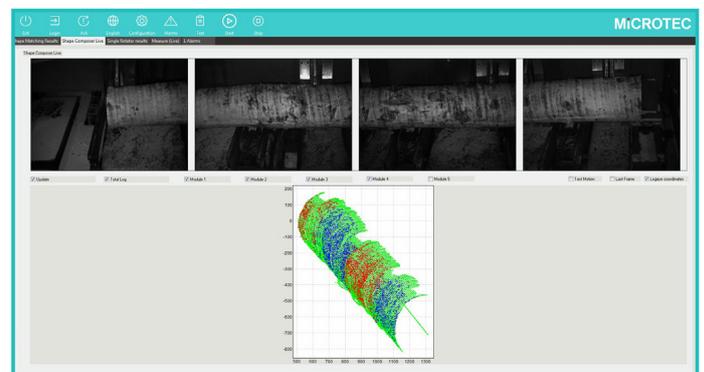
Logeye 901D Stereo is a stereoscopy-based measurement system for measuring logs on the band saw carriage. High-resolution digital cameras and high-performance LED lightings are used to capture images from different perspectives. The image processing software determines the 3D coordinates and creates a three-dimensional spatial image of the visible workpiece area. During the measurement process, the workpiece is rotated for combining the individual recorded and overlapping workpiece areas to create an entire 3D image. As a result, the detected workpiece area can be increased accordingly. With a complete rotation of the log on the carriage, a full 360-degree 3D reconstruction is obtained.

Optiline features

- × Finds the optimum cutting pattern for yield maximization
- × Digital cutting pattern visualization on the real log image
- × Enables cutting pattern inspection and manual cutting pattern modification
- × Allows a correct rotation and alignment of logs
- × Takes into account irregularities and flaws
- × Controls saws, clamping blocks, and further processing machinery
- × Simulates production yield during the work preparation
- × Optiline 3D Log Shape Scanner measures the log shape directly on the band saw
- × Optiline Fingerprint Scanner reliably recognizes the position of previously scanned logs on the band saw



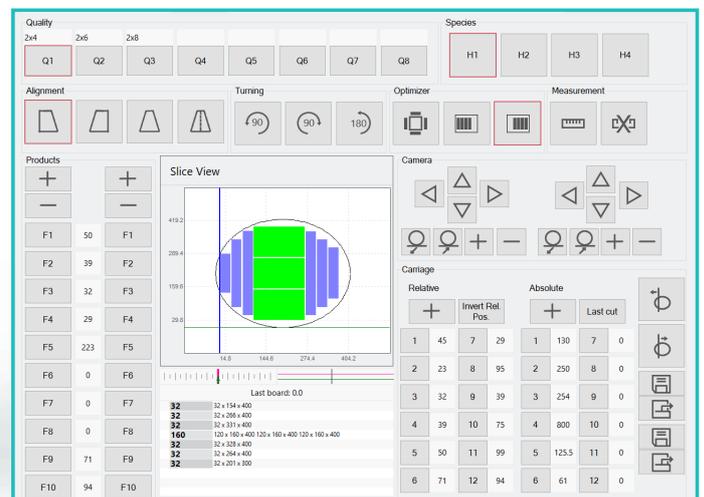
Cutting pattern visualization on the real log image



Partial 3D scan directly on the carriage



Log orientation recognized by Optiline Fingerprint Scanner



Touchscreen display for band saw control



World leading wood scanning solutions

Optiline



Maxicut



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