



Virtual cutting & value optimization

It has always been the dream of sawmillers to know what's inside a log before sawing... now this dream has come true. 1. Optimize bucking

- 2. Find optimum skewing and log rotation
- 2. Chappen the best sutting pattern

3. Choose the best cutting pattern

«No other product offers more uplift potential to a sawmill than the CT Log. With immediate cost savings and increased added value to the final product, our CT Log 360° X-ray CT-Sawing Optimization has shown – in several installations running worldwide – to have an impressive return on investment.»

> Dott. Ing. Federico Giudiceandrea Microtec CEO

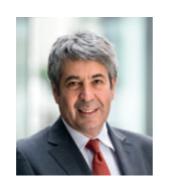
The digital log

Full digital log reconstruction and virtual grading for true value optimization in the bucking and sawing processes. CT Log 360° X-ray CT-Sawing

Optimization scans and digitally reconstructs the internal features of the log allowing the assessment of the optimum cutting solution in real time.

CT Log 360° X-ray CT-Sawing Optimization allows continuous, qualitative and full 3D log reconstruction. For the first time, size and position of internal wood defects can be accurately described in all three dimensions. Using the internal defects, CT Log evaluates appearance, quality and strength and assesses their impact on the final products before the physical breakdown of the log. Sawing and bucking solutions are continuously optimized based on the highest quality and resale, allowing production to be managed according to real-time priorities.

Large Cone-Beam Computed Tomography is the most innovative technology for the log yard and saw infeed developed by the industry leading engineers at Microtec. This approach uses a large X-ray sensor rotating around the log and an innovative mathematical inversion algorithm to perform high speed, high resolution X-ray CT-scanning.



«CT Log 360° X-ray CT-Sawing Optimization gives you unprecedented insights into your logs to optimize your production-mix according to your priorities while maximizing lumber recovery in terms of quality and resale value.»

Dott. Ing. Federico Giudiceandrea Microtec CEO

CT Log optimized sawing

- × 100% optimum cutting solution based on highest value of final products
- × Increased value in every sawn log compared to any other breakdown solution
- Maximization of lumber recovery quality that significantly increases revenues & resale value



CT Log 360° X-ray CT-Sawing Optimization features

Conveyor speed	up to 180 m/min (59
Field of view	up to 800 mm (32 in)
Length of log	up to 25 m (82 ft)
Full 3D log description	1
Quality grading	1
Strength grading (optional)	1
Virtual sawing	1



MICROTEC

Breakdown, bucking & sorting

CT Log 360° X-ray Computed Tomography data is the basis for the powerful breakdown optimization software, <u>Maxicut</u>, that determines the best cutting pattern with the highest outcome based on quality and resale value of the final products. <u>Interopt</u> Bucking Optimization determines cross cutting based on the highest value cutting pattern solutions in various areas within the log. <u>Winlog</u> Sorting Optimization enables log sorting and control of the log & merchandising yard.

CT Log precisely detects × Pith

- × Sound knots
- × Dead knots
- × Splits
- × Resin pockets
- × Heavy rot
- × Slope of grain
- × Metals
- × Stones
- × Ceramics
- × Heartwood
- × Green density
- × Annual rings spacing
- × Compression wood
- × Bark enclosures
- × Under bark shape
- × Wood species recognition

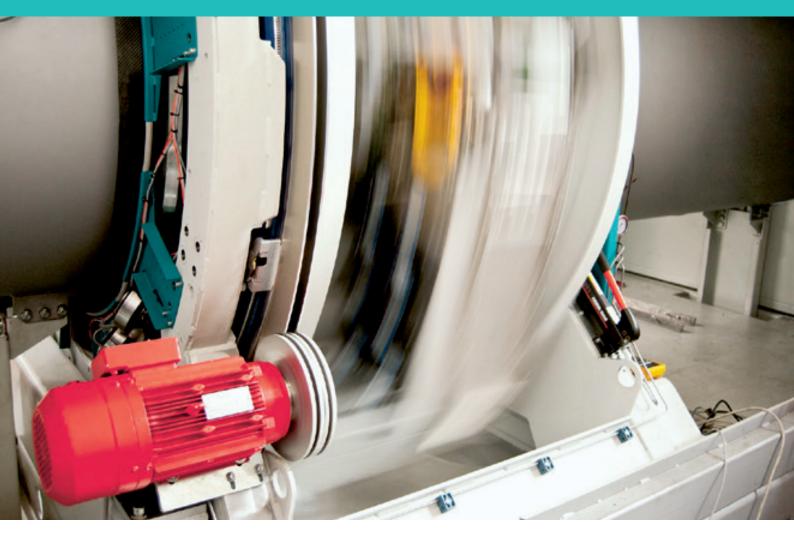
90 ft/min)

Groundbreaking innovation & engineering



MICROTEC

MICROTEC



World leading wood scanning solutions

Microtec GmbH Srl Via Julius-Durst Straße 98 39042 Bressanone/Brixen, Italy T + 39 0472 273 611 <u>info@microtec.eu</u> microtec.eu



Design: studiomut.com