

### SP PlankProfile On-Line

**SP PlankProfile On-Line** is an indispensable tool for detecting and quantifying a range of sawing errors. It provides high accuracy measurements of the width and thickness as well as any step or saw mismatch on either the flat or edge side of the plank. All measurements are made on-line, enabling decisions to be made in real time. Knowledge of sawing errors can be used to ascertain the proper working of the saw line and also to optimize the yield.

#### What do you get out of SP PlankProfile On-Line

- A robust tool to ascertain the proper working of your saw line in real time.
- High precision quantification of a range of errors related to sawing.
- A sound basis for optimization of the yield.
- Possibility to assess quality related questions regarding, e.g., capability of your sawing process.
- Graphic user interface with graphic representation of measurements, also enabling the user to specify compliance intervals for the detected sawing errors and to decide if an alarm should be raised or not.

#### How it works

SP PlankProfile On-Line is designed to operate on the transverse feeder in the green sorter and uses a CAN bus interface to communicate with other devices in the sawmill. The operation is based on the laser triangulation principle. This method is completely non-contact and non-disturbing and is today widely used in various industrial applications because of its robustness and high accuracy. Laser light, from a line laser, is shone on the plank which is simultaneously viewed by a camera. From the images recorded by the camera the coordinates of the plank can be estimated with errors in the range of a few parts of a millimetre.

**If you are interested in knowing more about how you can benefit from SP PlankProfile On-Line or how it can be modified to suit your needs, please don't hesitate to contact:**

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**SP Wood Technology** is a major player in the development of the new bio based society. Our research and development activities are dominated by large national- and international projects as well as industry projects. We are also actively involved in standardization through CEN and ISO. SP Wood Technology has qualified resources for research as well as testing for a range of materials and products.

The department of Processing and Processes supplies the wood working industry with measuring tools developed from extensive research activities as well as from customer demands. Processing and Processes supply the industry with development of new technology, methods, and processes in order to give the wood mechanical industry possibilities to deliver high quality products in a cost-efficient way.

Products	Services (a small selection)
SP Bark On-Line	3D-visualisation
SP DrySim	Programing, Database layout, Data analysis and Long-term data logging
SP GrainAngle On-Line	Deformation control
SP HeartWood On-Line	Energy measurements
SP PlankProfile On-Line	Lean production and Preventive maintenance
SP Quality On-Line	Gluing and drying
SP SizeControl	Sorting rules
SP TimberNav	Tracking
	Downtime monitoring
	Testing

### SP Wood Technology

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