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 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
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.
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