

ProLog –log sorting system

With ProLog - Sawcos system for log sorting, the logs are sorted to meet the demands of production, for every single sawmill.

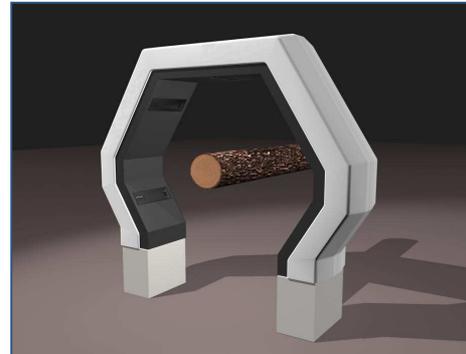
The system is based on the Sawco 3D-scanner ProScan, optimisation software and an operator's environment.

Benefits

- **High precision** sorting, even on very dark logs.
- Possibility to sort to saw class based on **diameter, block diagonal or cut pattern**.
- Prepared for measuring **bark thickness**, which gives log diameter under bark. Approved by VMR for automatic revenue calculation
- Prepared for **quality sorting**, with the Quality OnLine system (from TräTek, the Swedish Institute for Wood Technology Research)

3D Scanner

The measurement system ProScan measures at a conveyor speed over 160 m/min, and at a log gap of 0,1 m. By using a high power laser (100 mw) and a modern, advanced camera technology, the scanner can maintain a high precision, scanning all types of logs, even the most black or wet ones. A high sampling rate and many scan points in every profile, guarantees a very reliable and accurate scan of each log.



Quality sorting

ProScan is prepared with functions to deliver log data to Quality On-Line (from TräTek, the Swedish Institute for Wood Technology Research). Quality On-Line determines a quality index, based on the log shape, which is then used in Benima's sorting program.

Sorting and optimisation application

Based on measurement data from ProScan (along with Tracheid scanning application ProBark and Quality On-Line) the logs are sorted in to log classes, depending on the requirements of the sawmill. This is performed by ProOpt, and the logs are sorted to bins according to diameter, block diagonal or cut pattern. The log data can also be saved and used in simulation as ProOpt can also be used in the saw line.

Control system

The ProLog system has a PLC for handling log queues and keeping track of the logs on the conveyor, signal exchange with photocells, bin relays and other I/O, such as bus communication with machine control.