

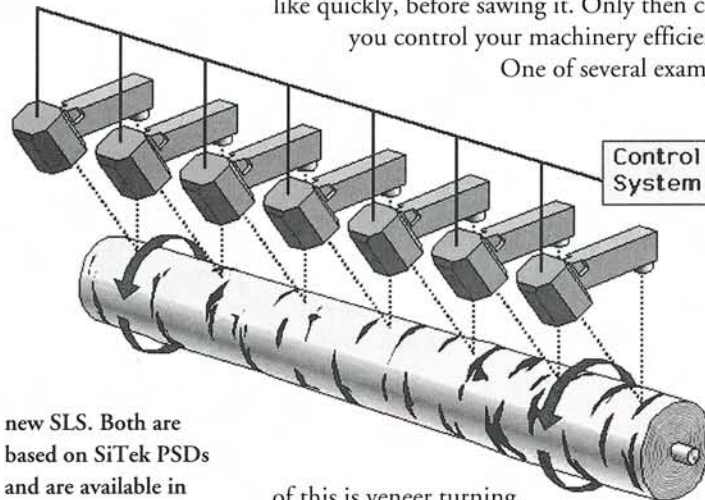
Get 2-15% more from every log!

Selcom AB makes non-contact distance measurement systems. There are now two different ranges of measurement probes in the product programme. The Optocator and the

High yield and high productivity are important competitive factors for the wood processing industry. In times of high raw material prices and small margins, it is important to get as much as possible from every log and from every minute.

One important thing needed to optimise production is to get a true picture of what every log, block or half finished board looks like quickly, before sawing it. Only then can you control your machinery efficiently.

One of several examples



new SLS. Both are based on SiTek PSDs and are available in several different versions to cover most measurement needs. All of Selcom's measurement probes are designed for industrial environments, where reliability is important.

of this is veneer turning. When the logs are put into the veneer lathe, centering has a great influence on the result.

Firstly, more continuous single slices of veneer can be obtained. This means less finishing work, since you otherwise have to join smaller pieces together to make a larger piece.

Secondly, the surface wood is of the highest quality. If you can extract more of the wood nearest the surface of the log, it is worth more than the increase in percentage yield.

This requires a true picture of the outer envelope of the log, beneath the bark and splinters. Any cracks must also be quickly and correctly identified.

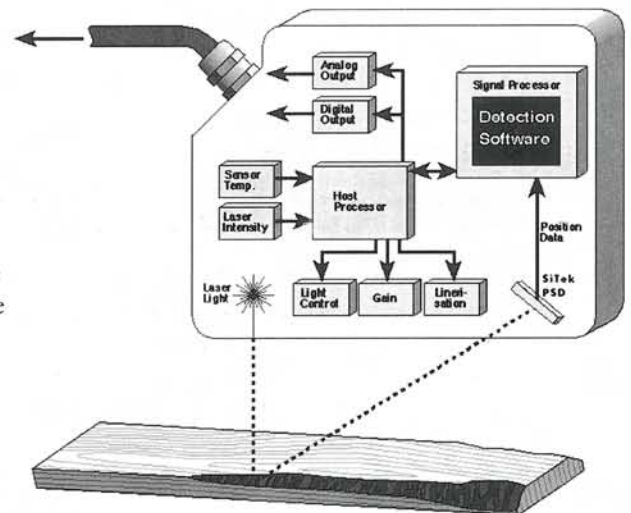
Raute Oy in Finland is a manufacturer of complete peeling lines for plywood mills. One important component is the LASER XY-infeeder, which ensures that the log is centred in the veneer lathe.

The LASER XY-infeeder contains seven Optocators. The Optocator is a non-contact laser probe, based on the principle of triangulation, designed around the SiTek PSD and made by Selcom AB. These detectors measure the true envelope of the log whilst it rotates. Each Optocator does 16,000 measurements a second, which makes it possible to calculate the profile of the log, without erroneous values caused by cracks, pieces of bark etc. affecting the results. The computer in the system calculates how to locate the log in the lathe, to obtain the best yield in terms of value. The final position is calculated with a positioning error of 0.005 mm. After this, the log is adjusted to the calculated position and transferred to the lathe.

The final result is 10-15% more single veneer and it is also the best grade - the surface wood.

Since 1988, Selcom has delivered more than 350 Optocators for installation in XY-infeeders, for use in plywood production all over the world.

This is one of many examples of how a saw mill has successfully managed to increase its yield, and thus save money and raw material by making



use of modern non-contact measurement. Some other examples are correct centring of logs in board edgers and resawing mills, more efficient edge moulders and trimmers.

