



The patent-pending Vision Tilt system controls saw blades by actively tilting the band wheels and can easily be installed in new and already existing band saw lines – Söderhamn

Eriksson



developed together with the end user, in order to optimise the machine concept for coping with the targets of a high production flexible sawmill for medium-small dimension logs (up to 320 mm at 60 m/minute).

This line can be differently configured according to the end user requirements, for maximum efficiency, with optimisation of the initial investment, whose quick return is ensured by the quality and the reliability of Bongioanni products.

Vision Tilt from **Söderhamn Eriksson** improves lumber sizes as well as saw blade service life, according to the manufacturer. The patent-pending Vision Tilt system controls saw blades by actively tilting the band wheels and can easily be installed in new and already existing band saw lines.

The equipment includes a Vision camera sitting protected on the return side of the saw blade. Level with the upper band wheel's centre, the camera monitors the saw teeth position in relation to the band wheel's front edge. Incorrectly aligned saw blades over time generate cracks in the tooth base as well as wear on band wheels and saw guides.

Summary

- Vision Tilt improves lumber size accuracy
- Vision Tilt minimises wear on saw bands, band wheels and saw guides
- Vision Tilt reduces saw band rupture
- Vision Tilt lowers energy consumption
- Vision Tilt has accuracy of measurement corresponding to ± 0.5 mm.



Vision Tilt actively corrects the saw band's position on the band wheel, which not only minimises wear but also improves sawing accuracy.

Besides the camera, Vision Tilt also includes a PLC with software for monitoring and adjustment. The surveillance images from all saws are displayed on one and the same screen for the operator's visual information. The intelligent saw band control system alerts the operator to faults such as saw bands showing signs of imminent rupture.

The Dominikus-Ringeisen-Werk sawmill in Bavaria works with a **Resch&3** bandsaw produce slats for oak planks.

37 kW power to cut up to 1.1 m-thick trunks

The South Tyrolean manufacturer has equipped the stationary bandsaw ES 1050 PROFI with an automatic mode. A maximum diameter of 1.1m and 10m long trunks can be processed using a three-phase synchronous motor with an output of 37 kW. By drive is the optimum blade speed set, though it obviously depends on species and season. A sawblade monitoring system is used to constantly control cutting accuracy and regulate the feed.



the log diameter, half-an- hour to an hour is needed for cutting. The finished lumber can be placed on the side or on additional hydraulic extraction rollers to the front. It is then removed with a forklift. Integrated dust collection is used to clean up.

Single source of supply



Our ability to deliver a complete package was given as a reason we were used along with our very robust equipment – Resch&3



A 4 t forklift places the big trees on the loading station. From there, they are automatically promoted to the saw table and turned in 'by eye'. With an automatic log measuring system, the trunk is measured during the first cut. The data generated from the measurements allow the roundwood to filter by customer's name or date. A printer has been installed in the heated cabin so that information is available to as a hard copy.

Within just three days, the bandsaw was delivered, installed and put into operation. The stellite blades and the sharpener are also from South Tyrol. That Resch&3 could deliver a complete package was given as a reason to use that manufacturer. Another was the "very robust" equipment.



Lamellae as if by magic

Once the log is fixed, the operator can leave the cab. The ES 1050 PROFI works layer-by-layer through the oak. Depending on