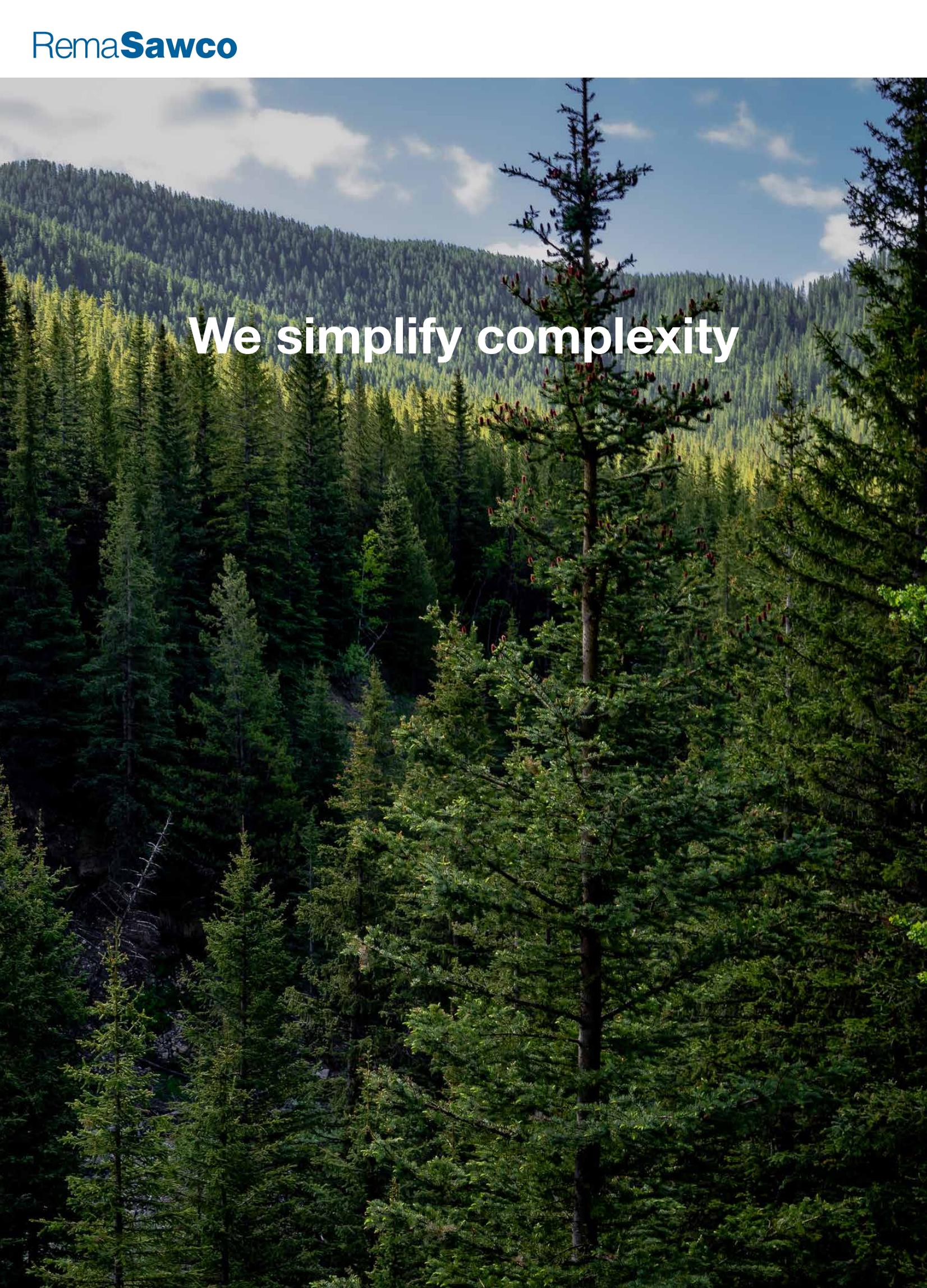
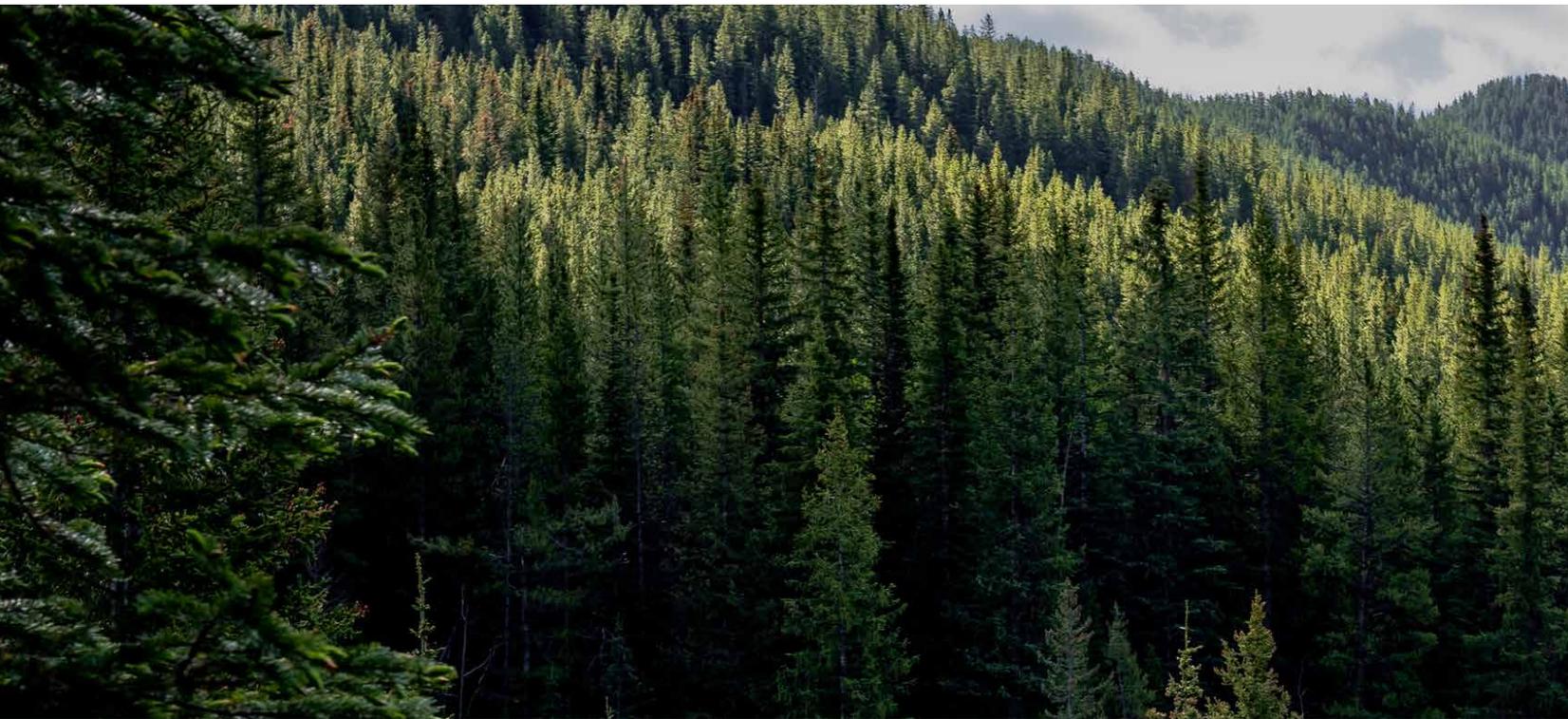


We simplify complexity

A dense forest of evergreen trees, likely spruce or fir, stretches across a valley. The trees are lush green, with some showing small, reddish-brown cones. In the background, a forested hillside rises under a blue sky with scattered white clouds. The overall scene is a natural, serene landscape.

**F A C T S**

- Founded in 1954
- Pushing the boundaries in the sawmill industry for more than 60 years
- More than 60 employees
- From development and deployment to service and support, our team helps
- More than 1000 satisfied customers
- From Europe to the US, our customer base speaks for itself

With RemaSawco, this is what you get

- Increased yield with first-class solutions
- A reliable platform with technology based on established standard solutions
- World-class service and support
- A complete offer with intelligent, user-friendly and efficient solutions for the entire sawmill process

For RemaSawco, it is a matter of course to support the UN's Sustainable Development Goals!





A word from
our CEO

Hello and thank you for taking the time to read this brochure, where we have compiled what we at RemaSawco can offer. I am convinced that you will find something in here that piques your interest. The rapid development in the sawmill industry over the years has reshaped RemaSawco compared to the company that was founded in 1954. We have grown and developed through various types of acquisitions and mergers, resulting in an increasingly extensive and complex product portfolio that has become progressively challenging to manage. This is why we decided to become a better and more efficient full-service supplier.

We have created a new and more efficient company and have, among other things, made an extensive consolidation of the product portfolio where older and specially developed products with a narrower scope of application have been phased out in favor of more modern, smart and efficient systems with the aim of helping our customers achieve their goals. In addition, we invest heavily in service, support and effective partnerships.

Our focus is on offering our customers a homogeneous, modular and standardised portfolio with a world-class level of service. In addition, we use open interfaces to efficiently integrate with all types of systems.

We simply strive to be the natural first choice when it comes to upgrading your sawmill.

Hope to see you in the future,

Emilien Saindon, CEO RemaSawco AB



Vi levererar olika typer av el-utrustning, från små kopplingslådor till stora golvsåp. Vi gör även installationer och ombyggnader på plats.

Vi håller högsta möjliga kvalitet på våra produkter och tack vare ett nära samarbete med våra kunder och att vi är flexibla kan vi snabbt få med ändringar och nya önskemål som våra kunder har.

MODAB
MOLIN & DAHLGREN



The most complete measuring station on the market

RemaSawco's systems for measuring stations are designed to offer flexibility and simplicity in daily use and maintenance work. This is how we solve the measuring station's tasks in the best possible way, both the payment-based measurement and the sorting for the sawmill's production optimisation. We have extensive experience of log measurement applications in many different countries and offer the market's most complete solutions. We know that each measuring site is unique, with its own unique mix of layouts and mechanics from different suppliers, and our broad product range enables us to adapt the system to our customers' conditions and facilitate the operator's work. Fewer buttons need to be pressed, resulting in a less stressful work environment.

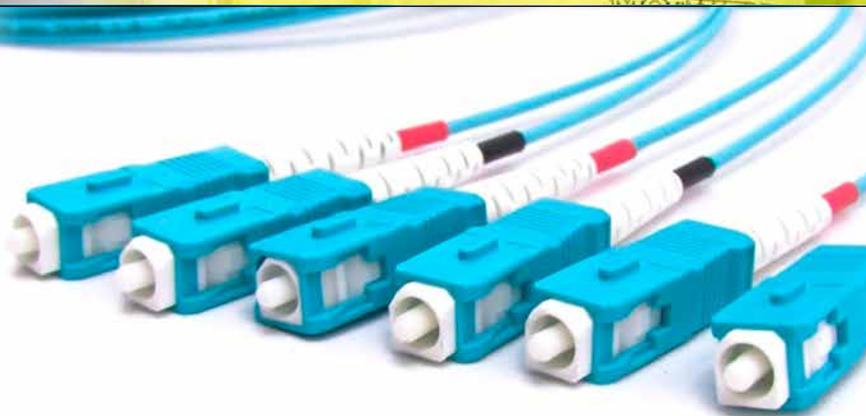


Our various systems offer you a series of unique competitive advantages. The RS-LogScanner3DX, for example, offers the market's best diameter measurement under bark, which allows our customers to sort the timber into the right products more precisely than ever before. Our X-ray sorting gives the sawmill the opportunity to produce logs that generate the desired quality of sawn goods. With our solutions, many operator decisions can now be performed automatically, meaning that the operator has fewer tasks to focus on and a better productivity in the measuring station can be achieved. You can find our product catalog on our website, or by contacting the regional sales representative. Together, we go through the conditions at the measuring site to tailor your solution via RemaSawco's standardised products.



Our measuring-systems offering consists of

- Control system: RS-715, the heart of our measuring station that handles visualisation, control, reporting and connections to external systems, including Biometria.
- Operator's seat: RS-Flexcon, either in a sit-down version or in a sit/stand version.
- Measuring frames for log measurement: RS-LogScanner3D and 3DX (external shape and X-ray measurement)
- Log sorting: RS-Opt, a program that calculates the best infeed positioning for each log; the log can be sorted according to the best sawing pattern already during log sorting.
- In addition, we offer the RS-XEye system to give the operator an image of the log's end surface.



VI HAR DEN FIBEROPTISKA LÖSNINGEN

Vi tillhandahåller fiberoptiska produkter och kapslingar med fokus på 19" racksystem för inom- och utomhusbruk, kundanpassade fiberoptiska lösningar och ljuddämpande skåp. Utöver kapslingar är vårt sortiment kablage av olika slag som fiber, koppar och apparatsladdställ. Vi erbjuder även montering av tillbehör eller er utrustning i önskad kapsling.

Våra kunder finns inom IT drift, telekom, bredband, stadsnät, automation, industri, energibolag, försvarsmakten, kommuner, universitet och statliga organisationer.

Läs mer på www.fracksystems.se

F-rack
Systems AB

”RemaSawco is a highly valued partner”



Peter Rockedahl is technical director at Moelven’s sawmill. Moelven has had a long and mutually rewarding collaboration with RemaSawco. – At Moelven, we saws logs into boards and planks and treat them by planing, impregnating and painting. In addition to that, we make glulam constructions into finished houses, says Peter.

How does RemaSawco help you?

– They help us with measuring and controlling so that the logs get to the right place and are adjusted to the right sawing pattern. They also help us with optimising our operations so that we get as much as possible out of the raw material. Further in the process, we use their system to make a quality assessment of the boards and planks when dried so they can be sorted to the right area of use.



Peter Rockedahl describes the relationship with RemaSawco as being very good. Together we help each other grow, he says, and he sees a great advantage in working with a technology company that knows the industry.

– RemaSawco was one of the first automation companies that sawmills in Sweden encountered, and they have a long history. Them having been around for so long, combined with their deep industry knowledge, it became a pretty easy choice when we needed an update. We value RemaSawco very much as a partner and see an advantage in having this tradition of knowledge mixed with the new initiatives and innovation that RemaSawco has produced.



How do you experience the communication with RemaSawco?

– It is very open and results-oriented. It is a very collaborative communication, which we notice by the short wait times for answers and by them being considerate and often asking if we have thought of different parts that could cause problems. They also help us with service and maintenance for our systems, which is key part of our requirements. Periodically we have to update our systems and in those situations, our employees obtain new and important knowledge.



Innovation och produktion

Sågteknik står för kvalitet och innovation inom våra verksamhetsområden: Fuktkvotsmätning, produktionsförbättrande produkter och automation.

Utöver vårt ordinarie expertisområde, fuktkvot och sågautomation, har vi de senaste åren utvecklat produkter vars syfte är att förbättra flödet och tillgängligheten på sågverk. Vi jobbar nära industrin och utvecklar gärna produkter efter era behov.

Inline fuktmätning

Beröringsfri mätning för torkat virke

Mäter fuktkvot i virke, tvär-/längsmatad.



- **Helt kalibreringsfri med autokalibrering.**
- **Kompensation för temperatur och avstånd.**
- **Datalagring för uppföljning/dokumentation.**

Optimising your saw line



RemaSawco's systems offers solutions for those who want to optimise their production. Maybe you want to maximise the yield or focus more on your availability? With our standardised and user-friendly solutions – for everything from positioning optimisation and rotation to measurement control – you get the best conditions to reach and exceed your goals.



Working closely together with you, we offer user-friendly digital systems that give you complete control over the entire saw line.

The systems optimise for maximum value, volume and quality – or according to whichever criteria you determine.



With advanced laser measurement and optimised algorithms, we measure the shape of the log with high precision and calculate the most efficient way to saw it. A number of different control systems capture results and ensure that no mistakes are made in the process. RemaSawco's smart control system provides an efficient flow with minimal downtime.

We pride ourselves in maximising the yield to completely new levels and giving you a simple way to take control of the process with high precision, as well as offering an effective tool to minimise yield loss.

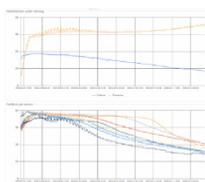
Through accurate data, everything becomes traceable for each step in the process. With that knowledge in hand, you can make the right decisions faster and get maximum value out of every log.

” The systems optimise for maximum value, volume and quality – or according to whichever criteria you determine.

ST-TM

Mätning av fuktkvot i tork

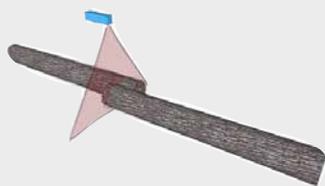
Kontinuerlig mätning och loggning av fuktkvot och temperatur i realtid.



ST-DLog

Detektering av dubbelstock

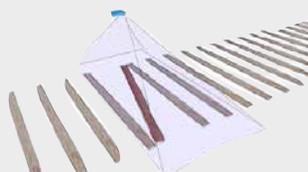
Kontroll och korrigerande av dubbellagda stockar i flödet



ST-XBoard

Snedbrädesdetektering

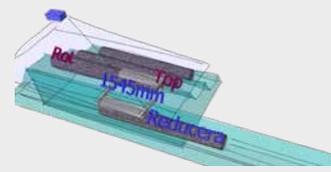
Kontroll av virke i ett parallellt flöde

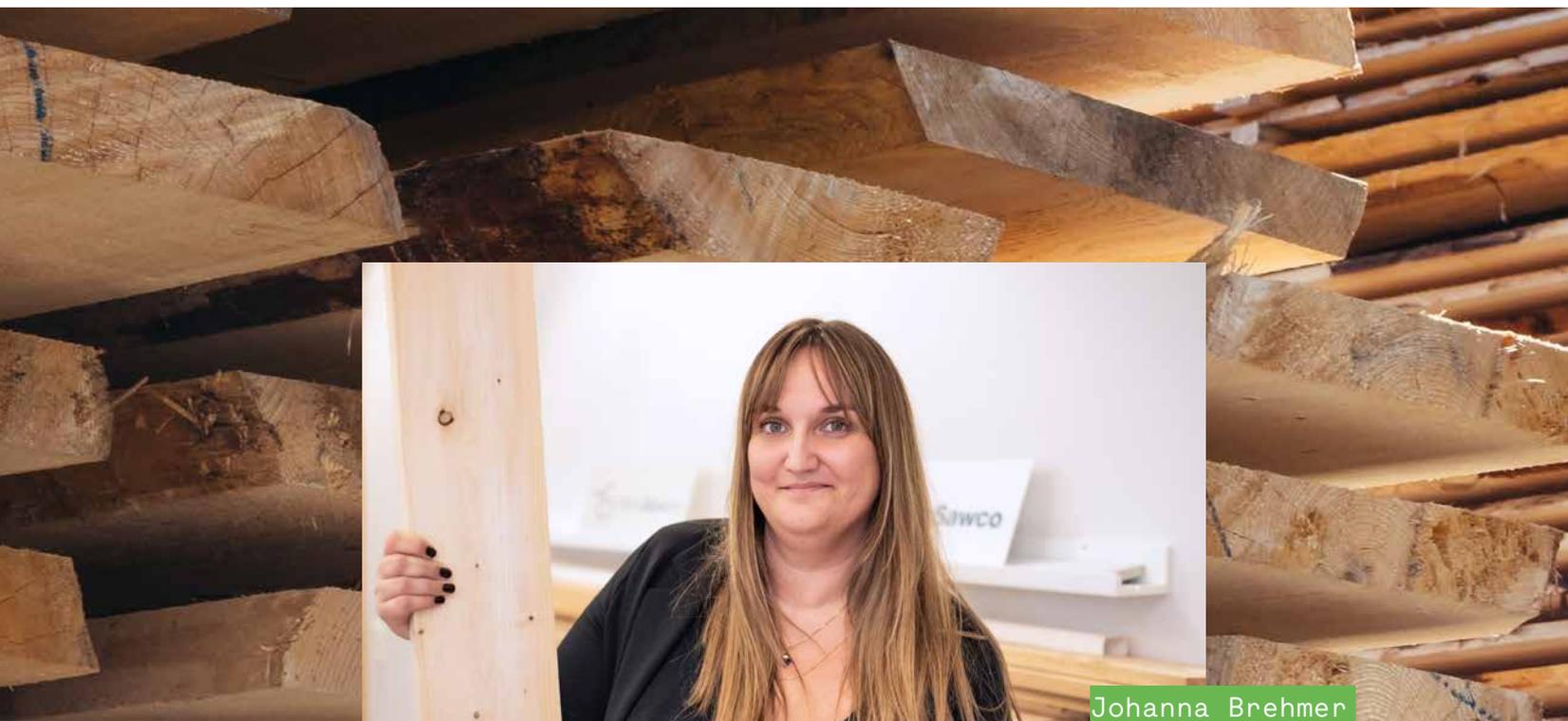


ST-Logtrig

Stockläggning/bedömning

Signalerar ilägg för jämn stocklucka och bedömer stockform för reducering eller topp/rot-vändning





Johanna Brehmer
Product manager

RemaSawco offers handling and quality assessment of boards and planks based on well-proven, state-of-the-art technology. We work with software that uses AI and clear visualisations to make life easier for our users, both in the value-adding work and when troubleshooting. RemaSawco offers different solutions for board sorting, and through defining your needs and conditions, we help find the system that best suits your business.

Our board management facilitates productivity-enhancing work and is easy to integrate with other systems with its standardised interfaces.

RemaSawco's product line for measuring boards and planks always measures the piece with high precision in a transverse flow, which enables high speeds. From solely geometrical to full-strength and quality assessment, including evaluating the piece-end surface to get even better results for e.g. assessment of the knot's path through the piece.

In our full-quality assessment solution, many different techniques work together to provide a good assessment of defects and features that have previously been difficult to pick up, such as blue stain and size of light knots. Our competent salespeople and product managers will help you find the right solution for your specific needs.

” Getting the greatest possible value from your products is made easy through our systems. Quickly being able to take value-adding measures gives you clear competitive advantages in the market. Quite simply, successful customers are our ultimate goal in everything we do.



Our systems for board handling



RS-EndSorter

RS-EndSorter inspects the board-end surface and delivers information about its properties. The system consists of a computer with associated camera and lighting. The system can be configured for functions such as detection of up and down sides or detection of inner and outer pieces.



RS-BoardScannerQ

RS-BoardScannerQ is a system for automatic grading, quality detection and crosscut optimisation in a green sorter, dry sorter or planer mill. The system detects all defects and geometric errors and performs a crosscut and quality optimisation.

RS-StrenghtGrader

RS-StrengthGrader is a system for strength grading of structural timber and glulam. It is an add-on application to RS-BoardScannerQ that can be fully integrated into existing software. The system is certified according to European standards (EN-14081) and can be used for both spruce and pine as well as for dry, raw and planed timber.



Board handling and control

Our board handling system consists of a PC part and a PLC part. These can be obtained in levels from bit tracking to full machine control to enable freedom of choice. Product management and user interface is fully integrated with our RS-BoardScanner but can also be used with other solutions. The system is developed with a great focus on user-friendliness and process optimisation, which is how it provides the operator a quick overview and opportunity for call to action in the system.



LMI TECHNOLOGIES

The Leading Solution Provider for Lumber Applications

LMI Technologies is a proud Remasawco partner and the world-leader in the advancement of 3D scanning technology for lumber applications. We design and deliver the smart sensors that mill operators use to carry out accurate, efficient, high-speed log and board breakdown optimization in the harshest conditions.

Our advanced wood scanning solutions span a wide range of capabilities including profiling wood for size and shape, building high-resolution color images for defect inspection, and full tracheid measurement for improved knot detection.

Gocator® 200 Series



3D for Shape

Tracheid for
KnotsColor for
Visible Defects



”Great system, great service”

RemaSawco's systems is used at Långasjö's sawmill in Småland. Process Technician Johan Andersson is very satisfied with how the systems for measuring and board sorting make their work easier.

– We have several systems from RemaSawco – for measuring frames, optimisation and measurement control. Through RemaSawco, we can optimise and get the best possible positioning for the saw, and we have the opportunity to adjust so that the distribution is right on the plank. In addition, we can make sure that we get the best possible yield from the log, he says.



In addition to delivering the systems, RemaSawco helps with service and follow-up calls where Långasjö receives assistance in optimising its operations.

– You don't just buy a finished system; you make developments all the time. RemaSawco helps us tailor the systems to our business.

How do you experience the communication with RemaSawco?

– Very good. It is a great advantage to work with a Swedish company, both in terms of accessibility and language. You have your own support contacts, which works very well. If they can't solve it right away, they always come back with a good solution.



” If RemaSawco cannot solve the problems right away, they always come back with a good solution.



LOGINOR

Projektering, konstruktion, tillverkning, programmering
och idriftsättning av automationsutrustning

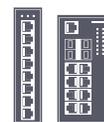


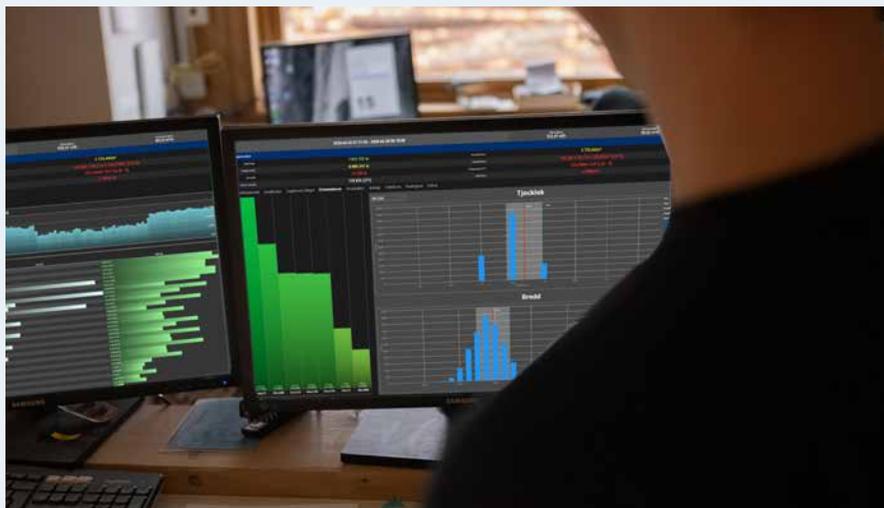
**HATTELAND
TECHNOLOGY**
an EMBRON Company

Behovsanpassade datorer för industriella lösningar

Box-PC, Panel-PC, Rack, Nätverk, Fläktlöst,
Handburet, Fordon, Kamera

Vilket behov har ditt projekt?





Smart Data Analytics – the future of the timber industry

In today's sawmill and processing industry, the data associated with each piece of wood is as valuable as the piece itself. This is because data enables everything from being able to sell the wood to improving your results and ensuring a higher profit.

At RemaSawco, we work with vast amounts of data to better optimise your business. By enabling tracking through the production – where we follow work order level, time, product or dimension – we can improve the performance of our system in the next step. With our fingerprint solution, individual tracking is also possible, providing advantages such as knowing exactly what happened to each individual item – from the log in the measuring station to the piece in the finished package. Thanks to smart data analytics, you can find the right log for the right end customer already in the log sorting and thus make an even bigger profit. Our methods for smart data analytics make it easy for you as a customer to work with both troubleshooting and improvement in the systems. For example, we can make it easier with traceability and visualisation of downgrading reasons in our board scanners, which means that the user can quickly find the reason for the outcomes and thus change the rules if necessary.

If you are curious about using RemaSawco's solutions for smart data analytics, we will come to you and take a look at the facility to map out what opportunities exist in your production, what needs you have and how we can meet them together. Our experience regarding what is possible, combined with your ideas and wishes, culminates in a collaboration and a partnership that produces the very best results.

JOWIC
elteknik ab

Sundsvall, Örnsköldsvik
060-52 58 90 | www.jowic.se

Försäljning och service av

- Frekvensomriktare
- Elmotorer
- Pumpar
- Växellådor
- Reservkraft

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Västerås

Östra Ringvägen 2
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