



PULP & PAPER

INNOVATIVE SOLUTIONS FOR CHIPPING AND DEBARKING

QUALITY IN QUANTITY

ANDRITZ

ENGINEERED SUCCESS



ANDRITZ LOOKS BACK AND SEES AHEAD

It all began with a hammer and a blast furnace for iron production in the county of Hälsingland in Sweden as early as the 17th century. When demand for iron manufacturing began to grow in pace with the industrialization of Sweden and Europe, the Iggesund mill became widely known for its production of saw blades and all other saw equipment. Since then, development has advanced quickly, especially thanks to new technology, and the sawmill industry is a global market today.

Iggesund is still around – more than 400 years later – with the sought-after professional skill and the desire to be an important part of the sawmill tradition. A heritage of knowledge is mixed with innovative thinking and, thanks to ANDRITZ's worldwide network of contacts, Iggesund is still supplying the world with first-class products for the processing of forest raw materials.

You are welcome to become a part of our long history.



EXTENSIVE KNOW- LEDGE COMBINED WITH THE SOLUTIONS OF TOMORROW

The foundation was laid in our predecessor Iggesund Tools, which means a guarantee of quality with innovation and strong well-known brands. This means that ANDRITZ supplies the market-leading tools and the process support that makes the customer satisfied both today and tomorrow. We continuously develop new products such as the TurnKnife System 2000 for pulp mills which quickly became a success. After just a few years, the TurnKnife systems were in more than 150 mills, mainly in Sweden and the U.S.

For sawmills, we are continuously developing new canter and profiling technologies, as well as process optimization. We do what we are best at. Together with customers around the world, we improve the chipping quality and debarking results in the sawmill. Sawmills and pulp mills with our knife systems are superior to most others in the market and have a clearly dominant position in the forest industry.

Quality and environmental protection are joint goals for our customers – and for us. Tools from ANDRITZ contribute to the optimal use of forest resources. You get the best return on the raw material, whether it involves debarking or chipping. Our forms of cooperation with preventive maintenance contribute to the highest production at the lowest cost with higher profits.

Our innovative solutions provide an advantage. You never need to compromise between economy and quality – ANDRITZ gives you both. Our advanced technology is continuously developing. With even better tools and even smarter forms of collaboration, ANDRITZ is continuing to lead the way for sawmills and pulp mills.

With ANDRITZ, the process is optimized based on the customer's needs. This is why we can continuously create the highest possible return on the wood raw material together. Tools from ANDRITZ in your sawmill increase productivity, minimize operating disruptions and provide higher revenues. This is why we are almost everywhere that forest raw materials are processed.

Our knowledge gives you an advantage.



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CANTER TECHNOLOGY FOR OPTIMIZED CHIP QUALITY PROVIDES HIGHER REVENUES



Chipping

Today, pulp mill wood chips provide significant revenues at modern sawmills. ANDRITZ canter technology provides wood chips of a more even quality, which pays better and provides better overall finances.

FLYING START

Our canter heads and cassette systems with knives have our well-known TurnKnife system for even and high chip quality at the same time as the longest lifespan. The sawline gets a flying start through faster log infeed with ANDRITZ canter technology. The knife systems have superior life expectancies and provide first-class wood chips. Significantly simplified maintenance also contributes to even better overall finances.

PROFILING

The ANDRITZ tool system for profiling equipment makes your sawline more flexible and efficient. Thanks to it being equipped with our TurnKnife system, it also gives you high chip quality.

TURNKNIVES SAVE THE ENVIRONMENT

The TurnKnife system has already taken chipping to a new level. Higher quality and sharp edges in the knives provides longer working time without regrinding – just reverse and keep going! Now, we are taking the next step as worn-out knives are returned, melted down and recycled into new steel. We help out to save the environment. Everything is used again. And again. And again...



Debarking

ANDRITZ is the leading manufacturer of debarking equipment with large market shares in Europe and North America. There are several reasons for this.

Campro equipped with Trimax or Pyramo, or Crestool with Crestip are our tools for higher profitability in the debarking process. You take the lead with an advantage over your competitors through faster log infeed and fewer wood losses. Both old and new debarking machines can be equipped with our tools to improve the machines' performance through more reliable debarking and easier maintenance.

FEWER WOOD LOSSES AND LESS WEAR

The Campro and Crestool tools are easy to handle and provide good removal of the bark. Lower working pressure yields fewer wood losses and less tool wear.

EXTRA GRIP WITH LESS PRESSURE

Trimax is our debarking tip for Campro with extra grip. It is made of the finest tool steel with extensive durability, low weight and long life.

REVERSIBLE PLATES WERE A REVOLUTION

Pyramo plates are available in different designs for different debarking conditions. It is a well-established tool for faithful customers in the sawmill industry in Europe and North America. The Pyramo debarking plates are reversible and replaceable and were already able to revolutionize efficiency when they were introduced. For almost 40 years, our products have led the way!

DOUBLE-TIPPED

Crestip is our debarking tip for the forged Crestool tools. A unique double-sided debarking tip that can be adjusted to different positions on the debarking tool for the best debarking results with the least possible wood losses.



A. Campro with Trimax
B. Crestool with Crestip



**DURABLE AND RELIABLE
TOOLS WITH RESPECT
FOR THE RAW MATERIAL**

ScanChip

This is how you get the right price for the wood chips for the pulp industry: The ANDRITZ ScanChip system continuously and automatically checks the chip quality. Analyses also show when the canter head's knives need to be changed, and can also provide information on the wood chips' moisture content. It is all done automatically and requires no manual input. However, the system gives you immediate information to get the right price for the wood chips!



TurnKnife

The reversible TurnKnife system has already taken chipping to a new level. Higher quality of the knives provides more chipping with sharp edges. High availability without regrinding – just reverse the knife and keep going. Our patented knife system means that the knife can easily be reversed and correctly positioned by a single person. A canter or chipper will be even better with TurnKnife systems.



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PARTNERCHIP

Our unique service programme for knife systems. For a fixed fee, you get preventive maintenance, technical support and access to our expertise around the clock. Together, we make sure that the TurnKnife system delivers optimized chip quality that increases your lead with an even more efficient and profitable production.



ANDRITZ in the world



"ANDRITZ is so much more than a supplier for us. They have long been an established cooperative partner, who has the ability to focus on the break-out processes that generate added value for the sawmill. Through their extensive know-how in chipping and debarking, we concentrate on the important parameters in the process that generate profitability."

**– JÖRGEN OLOFSSON, CEO,
MOELVEN EDANESÅGEN, SWEDEN**



"At Craigpine Timber, Performance, Quality and Efficiency are core values of our business which is why we have chosen to use ANDRITZ TurnKnife system. As a result of installing the TurnKnife System, we are spending less resource on knife changes due to superior knife life and ease of knife changes. Also, our power consumption on the Chipper and Slabber has decreased and the overall result is an improvement to our chip quality and increased revenue for our waste stream."

**– DAMIAN MCNAUGHT, ENGINEERING
MAINTENANCE MANAGER, CRAIGPINE
TIMBER LTD, NEW ZEALAND**



"We had a problem with our canter knives that left marks on the logs.

With ANDRITZ technology, the knives are securely fixed and the cut makes a smoother board finish.

This has allowed us to improve our performance. The chips bell curve is also tighter and the chips are more uniform. We get a better income from our lumber. In addition, the knives last two to three times longer. It is so efficient that investments can be repaid in a year! The service is as important as the product and ANDRITZ offered an excellent service.

We are very satisfied."

**– ROBERT SAINT-MARTIN, MANAGING
DIRECTOR OF FOREX SAWMILL,
FERME-NEUVE, CANADA**





WE LEAD THE WAY

Sawlines with tools from ANDRITZ are used every day by sawmills and pulp mills around the world, in different environments and with technology that gives our customers better return on the wood raw materials. Why? Because regardless of where you are in the world, ANDRITZ can provide greater profitability. We make sure that you get the tools adjusted to your specific needs and requests. We reduce wood losses in the debarking process and ensure that the wood chips are as good as your customers want them to be. For the environment and the future, worn-out knives are therefore recycled. It can't get any better. Our customers have already seen that there is money left over and therefore rely on our know-how. You are also not alone. Our global network and favourable PartnerChip service contracts guarantee local presence in the market.

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