

**Your value-adding partner in the wood processing industry**

**JARTEK**

# SPECIALISED PROJECT SUPPLIER FOR SAWMILLS AND WOOD PROCESSING INDUSTRY

Jartek is a Finnish expert in wood processing technology. Jartek offers design and supply of all necessary machines and equipment for sawmills and further processing plants. Our goal is to provide comprehensive services for our customers all the way from project management to maintenance and modernisation of equipment.

Jartek was established in 1957 under the name Sateko. Over the years the company has been known as Tekma and Tekmawood. Years of project knowledge in the sawmill industry, combined with expertise in the Scandinavian climate and wood species, produce outstanding solutions.

Efficiency of production and a long lifespan of equipment are the basis of all our designs. Decades of experience provide reliable know-how, knowledge, and project management, not forgetting the latest innovations to customers. Our solutions are always made to meet customer's needs, which maximises the productivity of the investment.



RELIABLE



RESPONSIBLE



INNOVATIVE







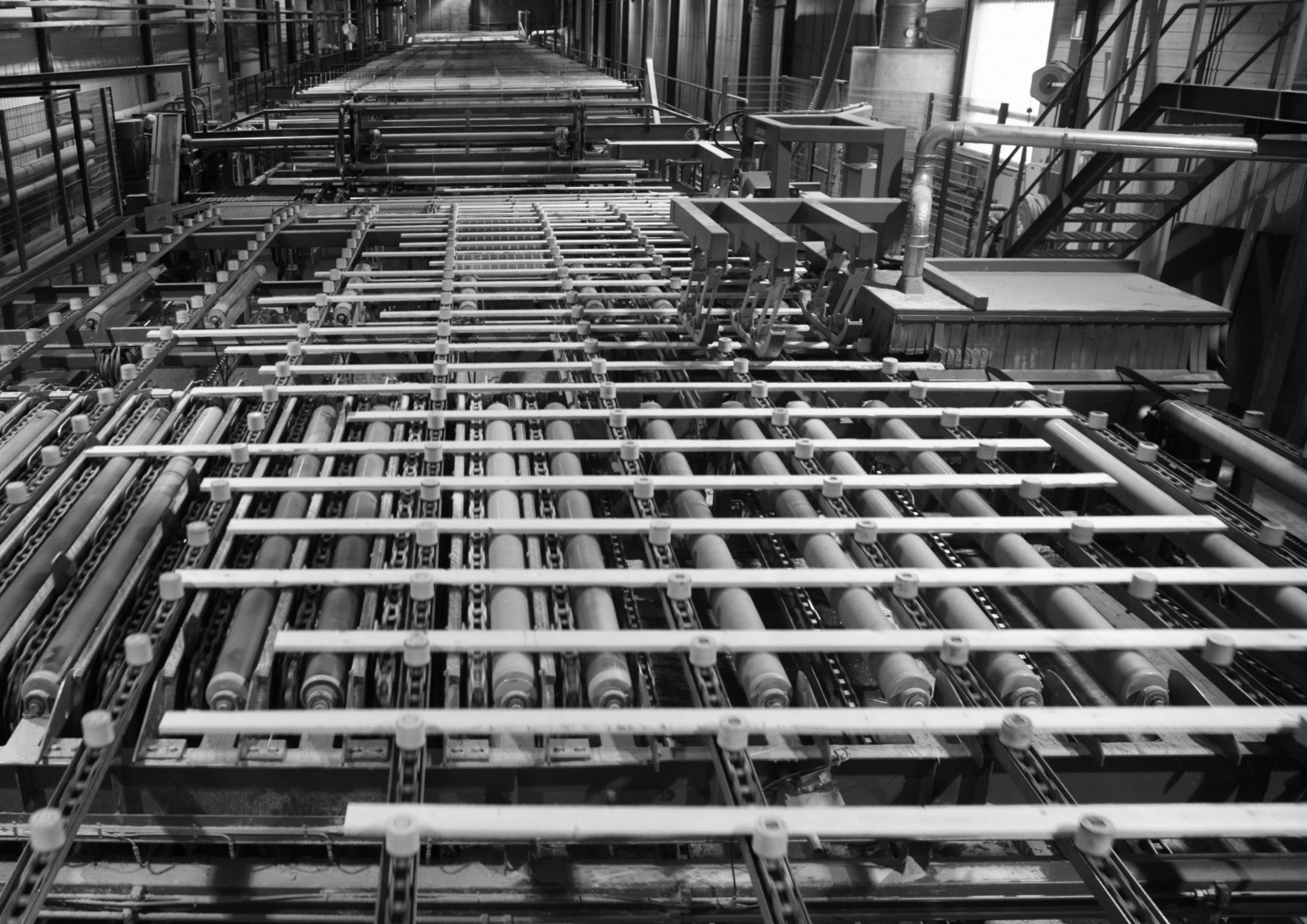
## SOLID EXPERIENCE IN SAWMILL PROJECTS

Jartek designs and supplies reliable, high-quality solutions, from single products to complete mills. Deliveries vary from turn-key deliveries to any customer preferred scale. Consultation and introductory training services from our specialists are always included in all deliveries of any scale. Our comprehensive spare part service and competent staff guarantee effective and long-lasting operation of sawmills.

A comprehensive reference list and technical functionality of solutions are signs of tradition and know-how, which only develop with years of experience. Continuing regeneration and research ensure that the customer gets the latest and the best technology, as well as the most cost-effective solutions. We always use the highest quality and best-known components in our equipment.











# RELIABLE SOLUTIONS

Jartek's solutions are suitable from medium to large sawmills. Our sorting lines can be operated at speeds of more than 200 pieces per minute.

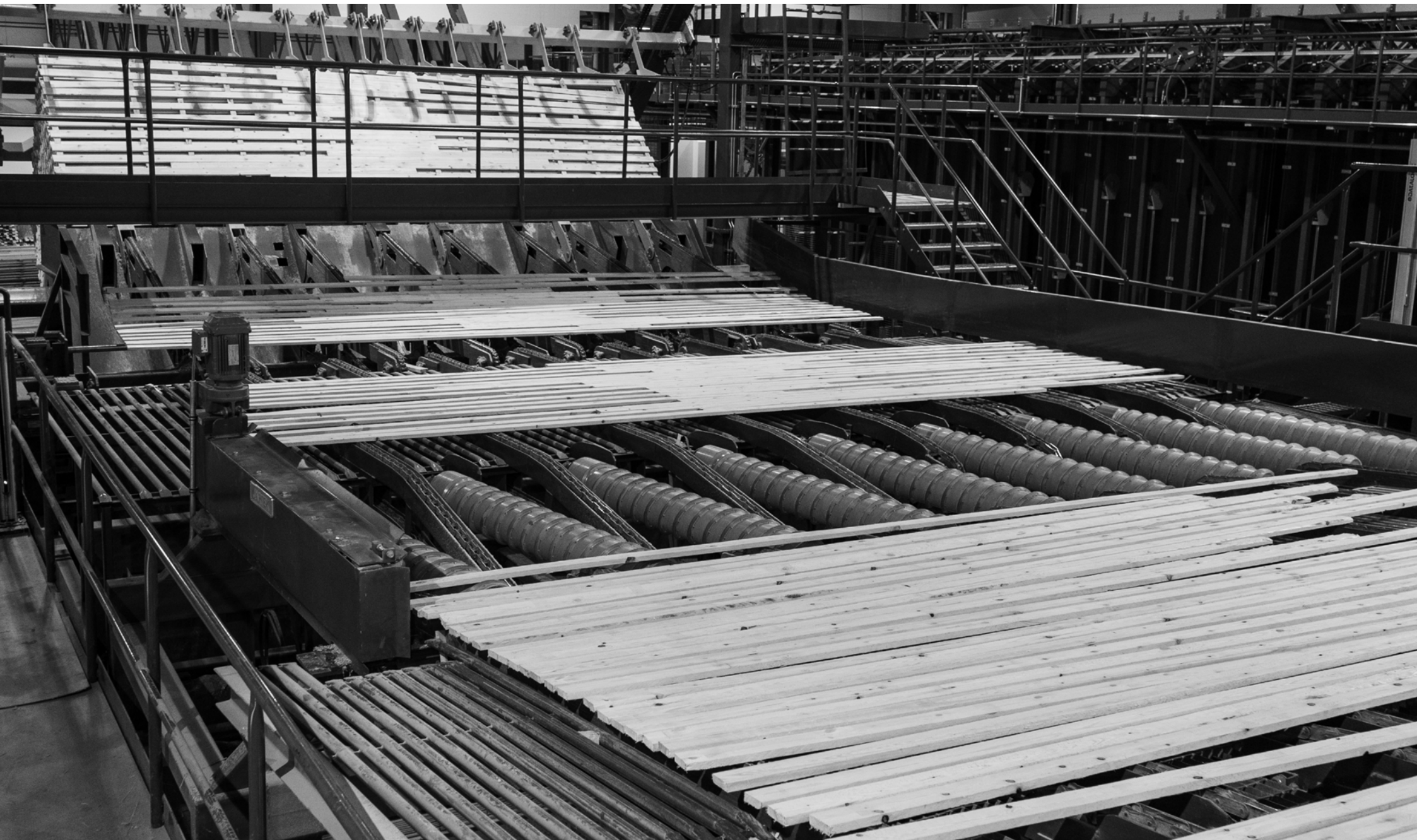
## **We supply to sawmills:**

- Green timber sorting and sticking plants
- Dry timber sorting and packaging plants
- Log sorting plants and saw feed
- Complete mills, in cooperation with our partners
- Single machines
- Modernisations to existing lines
- Automation solutions
- Jartek Smart – machine vision solutions

## **Modernisations**

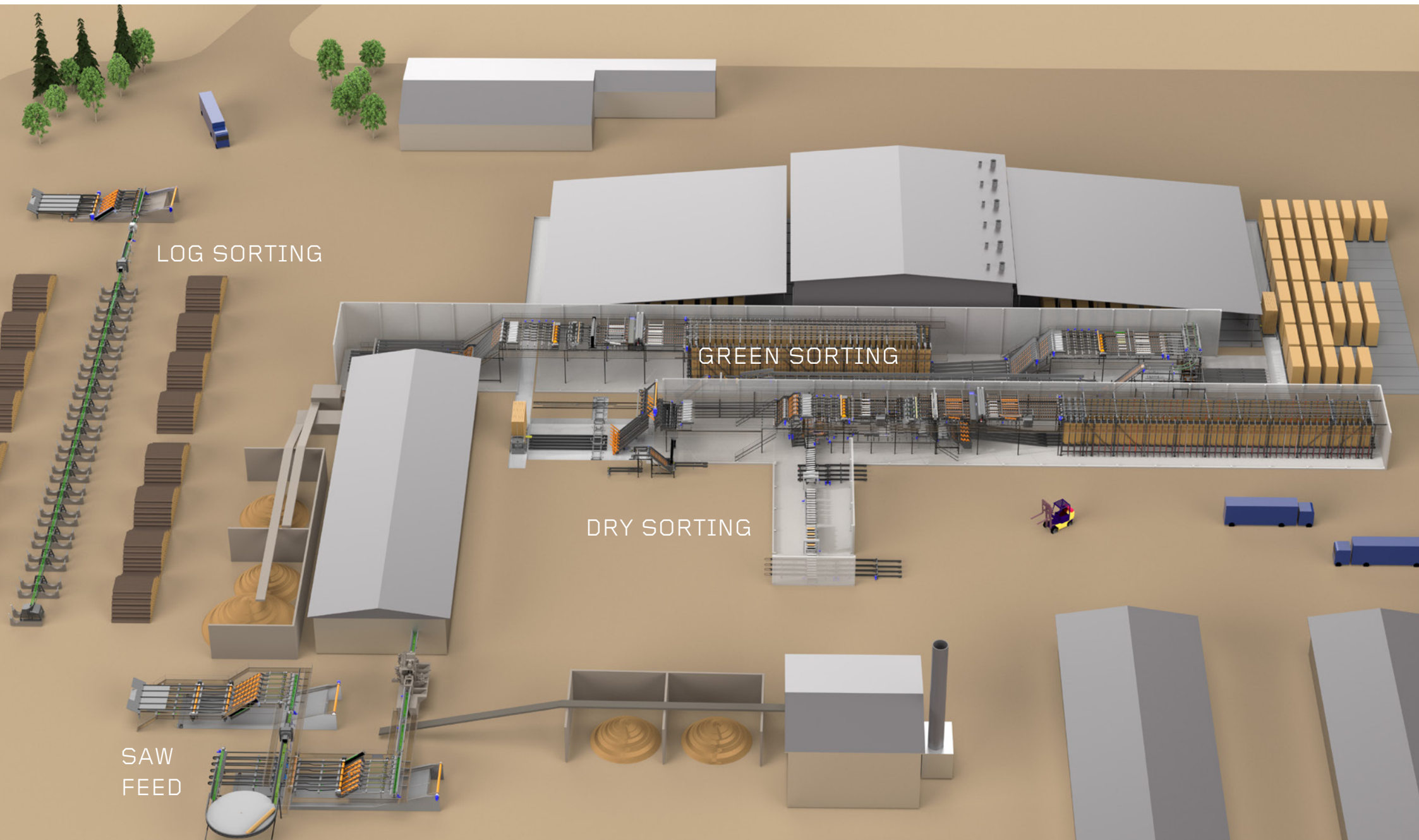
Sawmills depend on the market and therefore continuous research and development is necessary as well as flexibility to renew existing lines. Service and modernisation of machines and equipment are the key to sustain competitiveness.







# SAWMILL



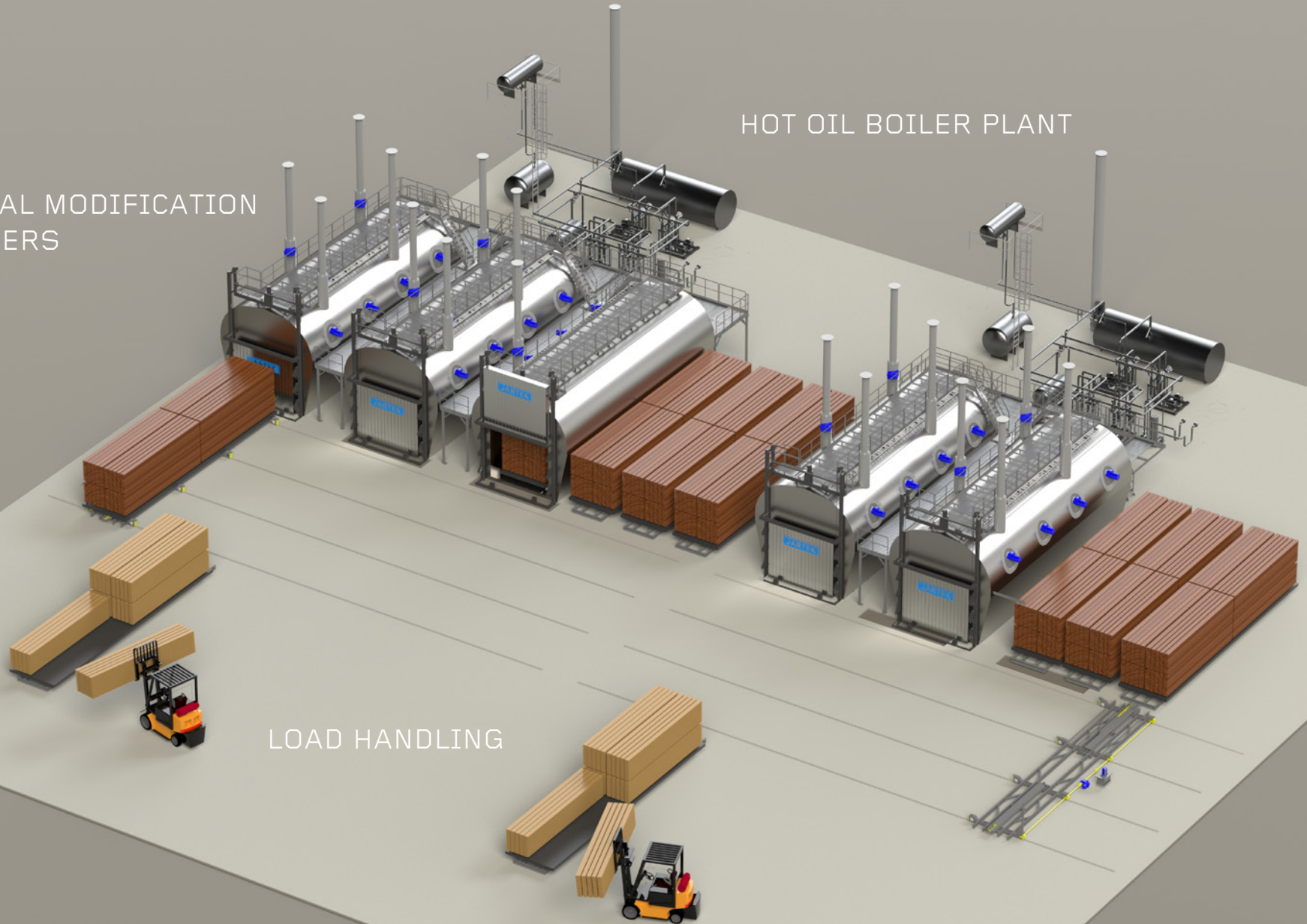


# THERMOWOOD-PLANT

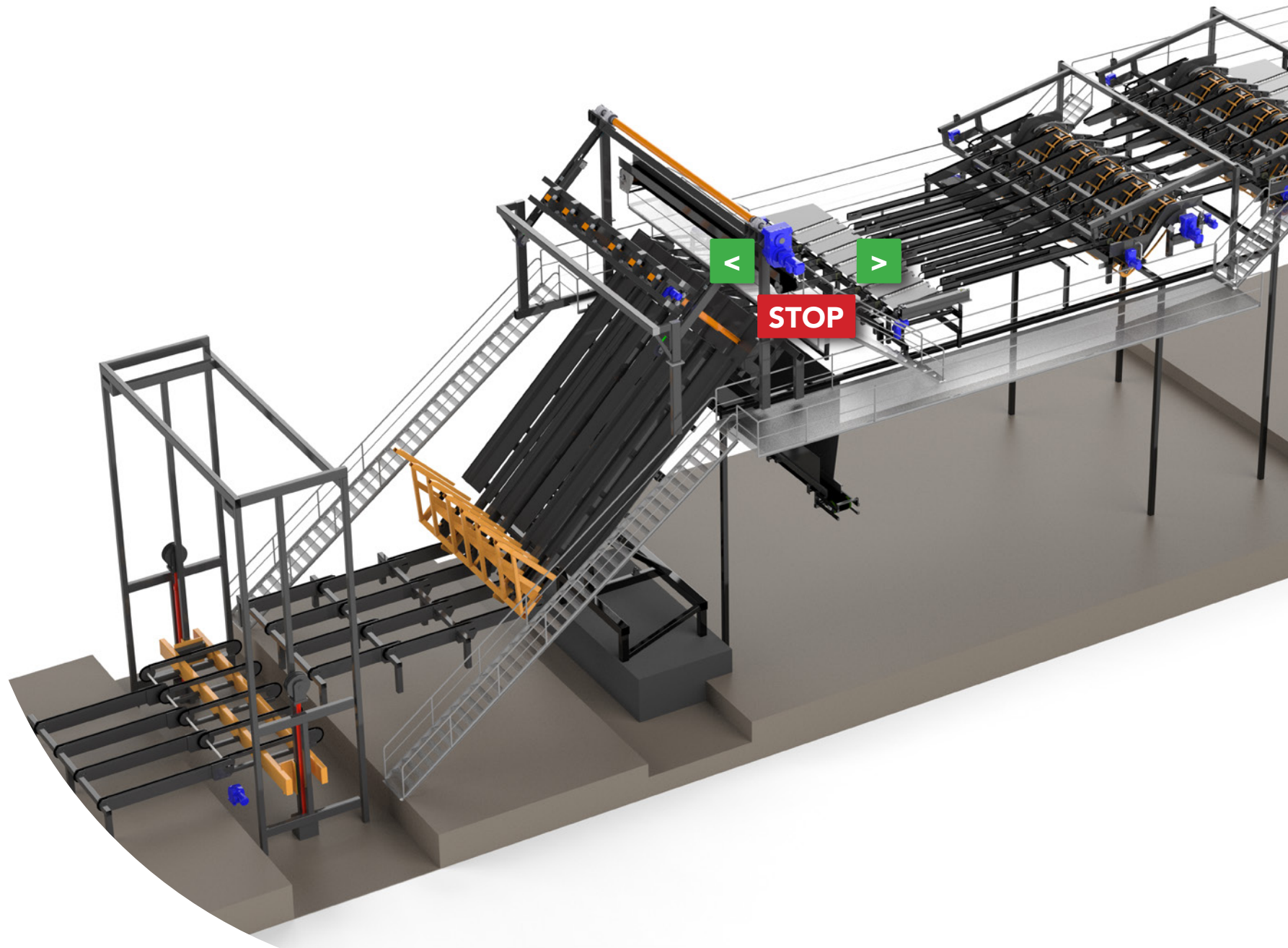
THERMAL MODIFICATION  
CHAMBERS

HOT OIL BOILER PLANT

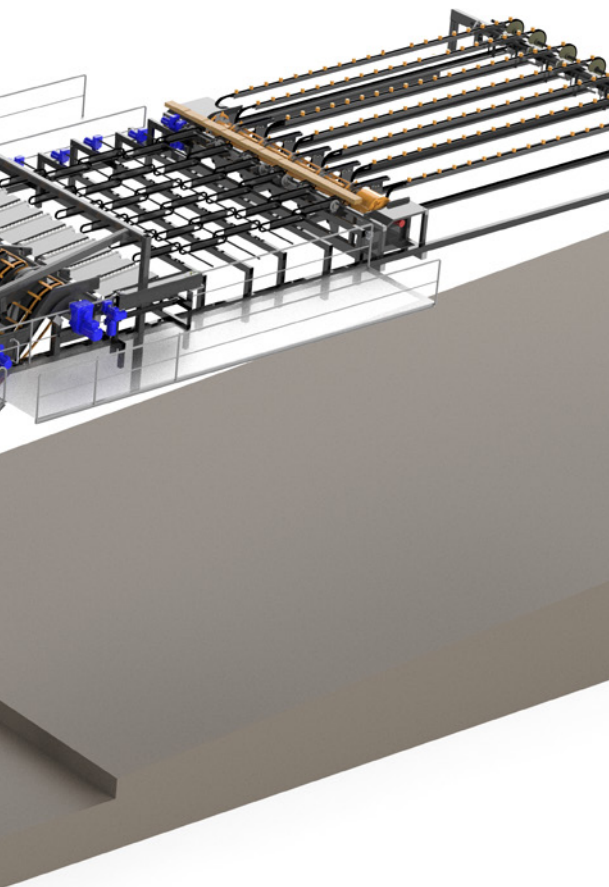
LOAD HANDLING



# JARTEK







## ADVANCED AUTOMATION

Jartek AI Oy offers modern control systems for processes of the entire sawmill. Data collection, manufacturing execution system and process control are all under one scalable system making it possible to follow and increase production.

Jartek professionals have decades of strong expertise in the sawmill industry which has allowed all stages and demands of sawmill production processes to be very carefully thought-out in the control system.

Programming is possible in several programming languages. The development environment is based on Microsoft Visual Studio. Constantly evolving, easy-to-maintain, open and scalable Windows-based system can be used on several terminals. Systems can be easily connected to higher-level systems, such as ERP systems or cloud-based BI solutions.

The process control of technically demanding wood thermal modification is based on Wintek-system. Database solution developed by Jartek automation professionals makes it easy to generate reports and archive, control or transfer information to other systems. Process information can be easily shared with, for example, service or financial department.



# THERMOWOOD® - WOOD THERMAL MODIFICATION PLANTS BY JARTEK

Jartek is globally a leading supplier of wood thermal modification technology. In our plants, we use ThermoWood® technology.

So far, we have delivered about 100 ThermoWood® chambers, and we have strong and wide experience of different technical solutions.

Wood thermal modification industry and demand for thermally modified wood are growing fast.

ThermoWood® process is technically demanding due to high temperatures, and it requires high-quality engineering, materials, and components. It is also important to understand characteristics of wood and what happens during modification process, phase by phase.

Jartek designs all its projects, small and big volume plants, according to customer specifications and requirements, with high energy efficiency.

Our deliveries always include details of ThermoWood® process, start-up of the plant, and training of operating personnel.







# THERMOWOOD® TECHNOLOGY

Jartek has delivered ThermoWood® plants to several countries around the world. These plants often process local species of wood. The biggest production volumes involve North European Pine and Spruce. Other common ThermoWood® species are Ash, Ayous, Frake, and Radiata Pine.

ThermoWood® process uses only heat, steam, and water. Process is carried out close to normal atmospheric pressure, and internal chamber pressure is just slightly above that.

International ThermoWood Association, ITWA, has created a product classification for production. Operations and products of member companies are audited annually by a third party. Jartek is a founder member of the ITWA.

During ThermoWood® process, the equilibrium moisture content of wood is lowered, dimensional stability increased, resistance against weather and decay increased, and also the wood gets a pleasant brown colour. End-use applications for ThermoWood® include doors, windows, external cladding, patios, and garden structures. Inside houses, ThermoWood® is used in flooring, wall panelling, and ceilings. ThermoWood® should not be used in load-bearing structures.









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