



SAWMILLS

INNOVATIVE SOLUTIONS FOR WOOD HANDLING AND LOGYARD MANAGEMENT

Logyard handling with cranes



ANDRITZ

ENGINEERED SUCCESS

WHY CRANES?

COST EFFICIENCY

With ANDRITZ logyard cranes, you can reduce woodyard operating costs by 50% or more compared to wheeled loaders. This significant cost reduction translates into substantial paybacks, especially as fuel costs rise and labor shortages become more challenging.

ENHANCED PRODUCTIVITY AND SAFETY

Modern woodyards equipped with cranes not only boost productivity but also enhance safety. Cranes provide an economical solution to the management challenges posed by rising fuel costs and labor shortages. Cranes can be operated remotely and automatically which increases safety.

LOWER CARBON FOOTPRINT

ANDRITZ cranes are fully electric, eliminating the need for diesel fuel and thereby preventing leaks, spills, exhaust emissions, dust, and noise.

These cranes operate on electricity, with two log yard cranes consuming less than 100 kW per hour. This significantly reduces operational costs and environmental impact by eliminating diesel fuel usage.

FAST CYCLE TIMES

Cranes can achieve up to 25 cycles per hour, allowing for the rapid unloading of a high number of trucks or rail cars. Equipped with storm brakes, our cranes can operate in all weather conditions, including winds up to 72 km per hour.

REDUCED MANPOWER

A crane-operated woodyard typically requires only one-third of the manpower needed for a loader-operated yard to process the same volume of logs. With autonomous operation, manpower needs can be as low as one-tenth compared to loader operations.

SMALLER YARDS AND LESS EQUIPMENT

Log yards served by cranes require less land and labor for the same storage volumes while offering greater flexibility. High stacking and the crane's ability to "lift" over storage piles eliminate the need for an extensive road network.

Using one piece of equipment instead of multiple loaders simplifies operations. A log yard crane can handle truck or train unloading, log storage, and feeding mill processes, streamlining your operations.



ENGINEERED
SUCCESS
SAVING SPACE
AND ENERGY

50% SMALLER YARD FOOT PRINT

ZERO CO₂ EMISSIONS ON OPERATION

COST EFFECTIVE LOGYARD OPERATION - UP TO 50% SAVINGS

Boosting sawmill productivity with custom crane services

ANDRITZ can help you develop a service program tailored to your crane operations. Our comprehensive inspection procedures - daily, weekly, monthly, and annual - along with advanced service monitoring software, are essential for the success of your operations. With strong OEM parts support and engineered solutions, the ANDRITZ service team stands out as the best in the industry.

LOG INVENTORY MANAGEMENT

Imagine a fully automated log inventory system. With defined input, output, and storage zones, as well as wood classification, incoming and outgoing wood can be automatically detected and classified.

By recording this data into the Programmable Logic Control (PLC), you can easily calculate tons received, tons placed on the infeed, and tons placed in storage. The average age of inventory in each storage bin can also be tracked. Reporting functions are customized to meet the needs of different operations, and data can be exported in multiple formats.

OPERATIONS MONITORING

The Crane Service Monitor system (CSM) provides crane owners and users with advanced data acquisition and analysis features to support log yard management and operations.

Features include PLC tag trending, queries, alarm and fault reporting. The CSM is automatic logyard inventory management and crane operations recording system. Reports are designed to enhance and support preventative maintenance planning, operator performance, inventory management, first-in/first-out processes, and capacity evaluations.

REMOTE SERVICE OPTIONS

The Crane Service Monitor computer can connect via wireless Ethernet networks, with records collected onto redundant storage. This computer can also be used to remotely access the crane's PLC, drives, and radio systems.

CSM has a web interface that allows users to generate and save reports, which can be shared automatically or manually.

ENHANCING OPERATIONS

- Fault reporting and storage directly from the PLC
- Automated inventory and throughput calculations
- Customised reporting
- Real time fault monitoring from remote desktop



Autonomous logyard with cranes

ANDRITZ cranes can operate autonomously, further enhancing efficiency and safety. The autonomous system allows for precise control and monitoring, reducing the need for manual intervention. Operators can oversee the entire process from a safe location, ensuring smooth and continuous operations with minimal downtime.

OPTIMIZING LOG HANDLING THROUGH REAL-TIME AI TRACKING

The implementation of ANDRITZ Artificial Intelligence (ANDI™) enables detailed real-time tracking and classification of incoming wood. This advanced system helps control inventory transactions and optimize your processes, resulting in increased quality and reduced operating costs for woodyard operators.

REAL-TIME 3D SCANNING

ANDI™ utilizes real-time 3D scanning of the crane environment and interprets the available material using AI. This leads to a uniform feed and optimized log handling processes.



Real-time 3D scan of the crane environment. Machine vision object detection and segmentation.



ANDRITZ HELPS TO IMPROVE THE AVAILABILITY AND PERFORMANCE OF YOUR SAWMILL PROCESS

With ANDRITZ you can depend upon our millwide knowledge and years of experience to deliver proven results. All of our operations are carried out in compliance with environmental and quality requirements, with safety being of prime importance.

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