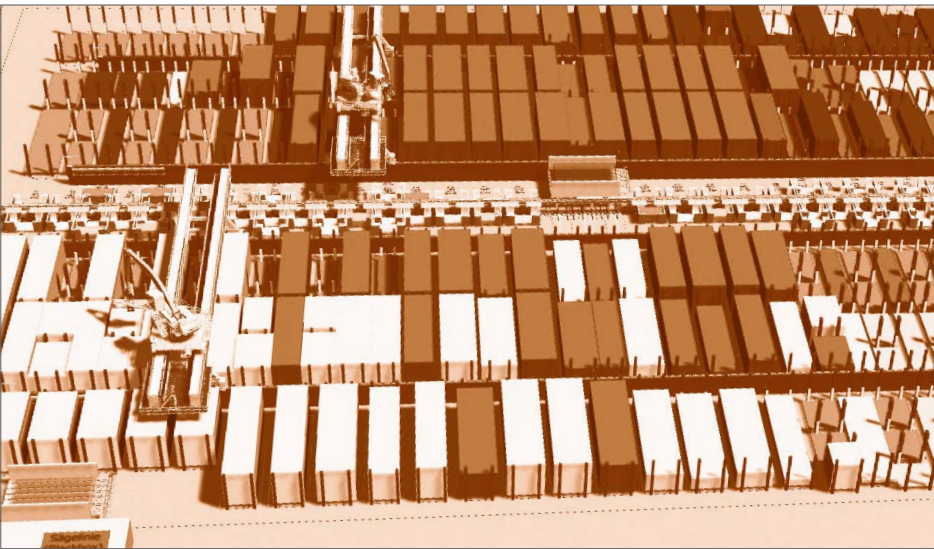
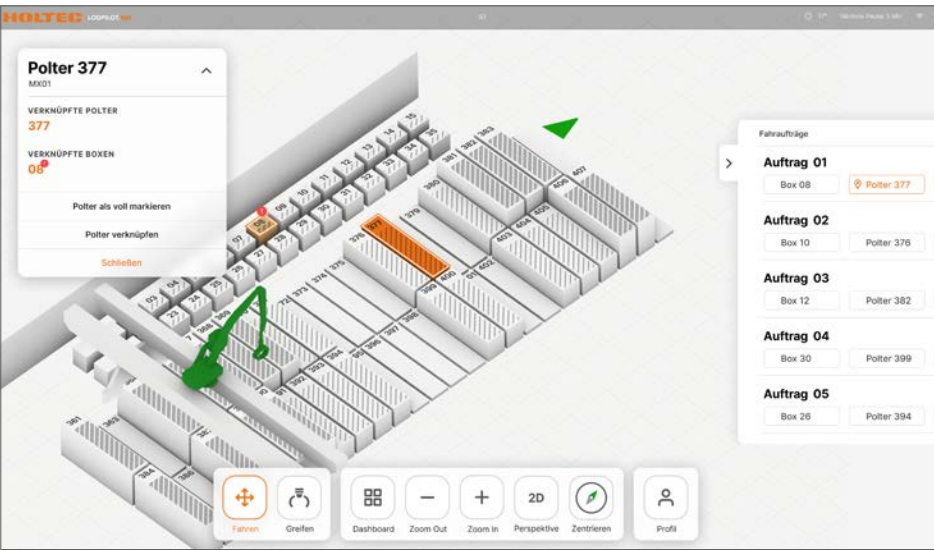
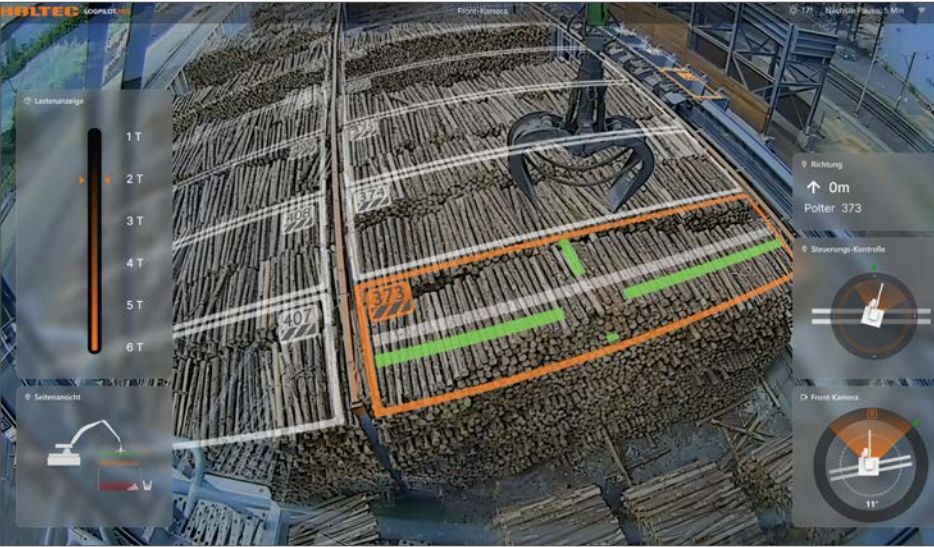


NEXT LEVEL LOG HANDLING



SMART. DIGITAL. SUSTAINABLE.

Remote control
LOGPILOT.PRO

The workplace in the portal crane has certain ergonomic and work organisation challenges. In future, modern remote workstations are therefore to be designed to enable employees to work more efficiently and at the same time significantly increase operating comfort. The intention is to enable crane control regardless of where the cabin is located. The long-term plan is to gradually convert the system to a semi-automated solution.

Simulator
LOGPILOT.360

Our crane simulator enables stress-free and practical training for new employees - without interrupting ongoing operations. In a realistic environment, operators can learn and consolidate all relevant processes in a relaxed atmosphere before operating the real crane. This makes the start easier and more comfortable, reduces sources of error and increases the safety feeling. At the same time, the performance of the overall system is fully maintained during the training period, as no capacities are bound in real operation.

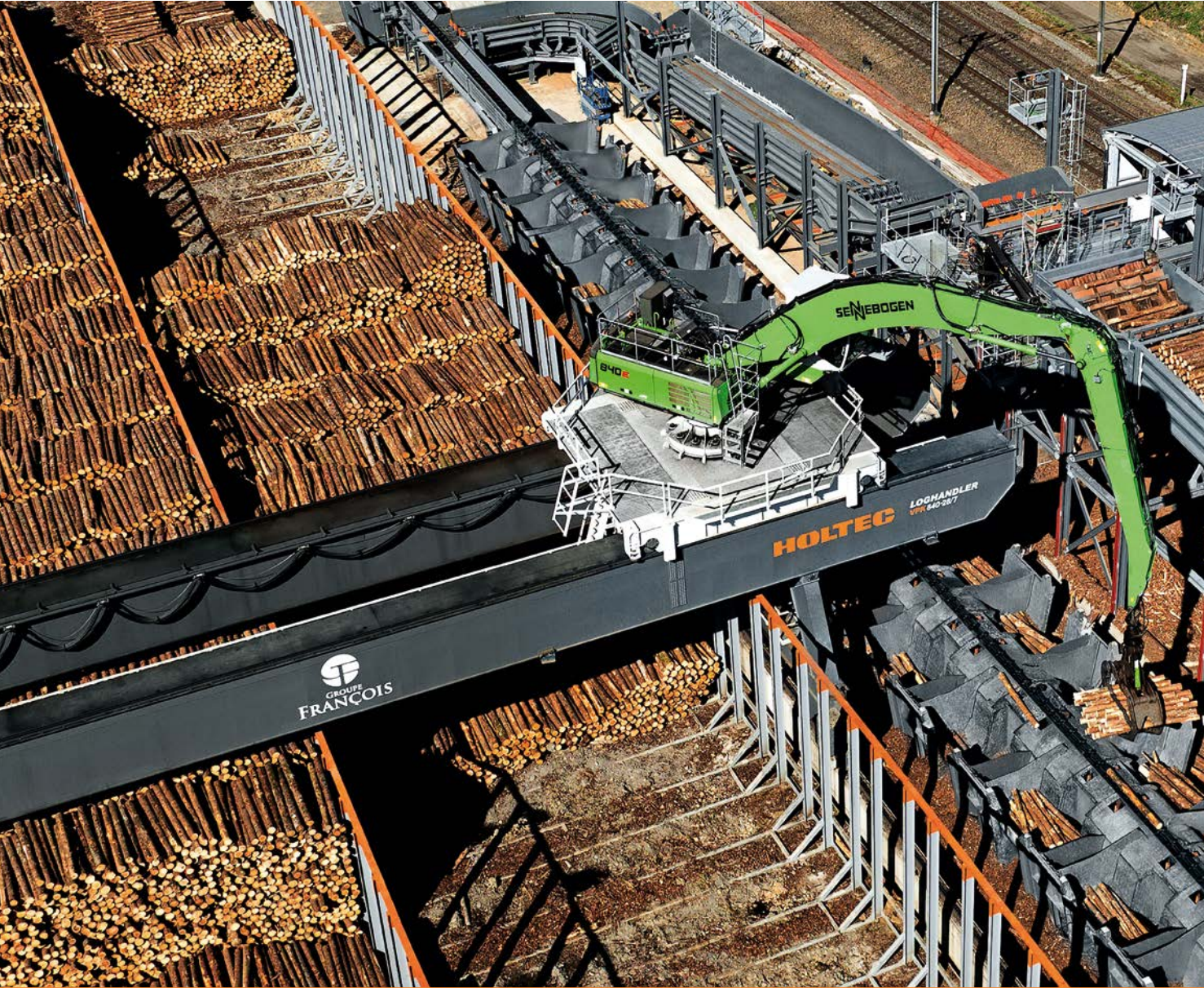
Simulation
LOG.SIM-UI

The planning and implementation of a portal crane concept is a strategic decision with a long-term impact - the planning phase must be designed accordingly precisely. A realistic simulation provides crucial support for this process: processes, layouts and control concepts can be tested, evaluated and optimised in advance in a practical manner. Our company relies on specially developed software that can be used to simulate individual portal crane concepts precisely and with foresight - for maximum planning reliability and well-founded decisions.



Have a look at a use case

VPKLOGHANDLER



NEXT LEVEL LOG HANDLING

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Have a look at our YouTube channel.



EN Stand 05 / 2025 - 250



HOLTEC

Next generation log handling - Future-proof log handling with the VPK Loghandler

The wood industry is changing: digitalisation, sustainability and increasing cost pressure are presenting companies with major challenges. Particularly in log handling, the change from diesel-powered vehicles to modern, all-electric systems opens up enormous potential for increasing efficiency and reducing costs.

With the VPK Loghandler, HOLTEC presents an innovative, powerful and climate-neutral portal crane concept. Together with experienced partners from crane and handling technology, a flexible solution has been developed that enables efficient processes, considerable space savings and sustainable organisation of the wood yard. Modern simulation processes and digital warehouse management support the optimal utilisation and control of the storage areas.

The electrically powered portal crane impresses with its cost-effectiveness: compared to diesel-powered machines, the operating and maintenance costs are significantly lower and the system also scores points with its long service life. Complex maintenance measures and high space maintenance costs are largely eliminated.

Sustainability is a top priority: Over the entire service life, the use of electric drives leads to a significant reduction in CO₂ emissions as well as lower dust and emission levels. At the same time, the space-saving design ensures reduced sealing, which brings ecological and economic benefits.

Last but not least, the VPK Loghandler offers maximum efficiency. It guarantees a high handling capacity with optimum utilisation of space - thanks to compact, flexible log pile organisation and modern concepts such as FIFO, the available storage space can be used up to 50 % better. This prepares log handling for the challenges of the future.

SUSTAINABLE LOG HANDLING



Application in the
sawmill industry



NEXT LEVEL LOG HANDLING

Challenges in the wood industry



Skilled labour shortage

The lack of qualified operators, especially for mobile machinery in log handling, is increasingly impacting productivity. Cramped cabins, heat, and vibrations make these jobs unattractive for new hires.



Productivity dependent on operator performance

Efficiency on the log yard heavily depends on the operator's skills and daily condition. Inexperienced staff require lengthy training periods, causing significant fluctuations in throughput.



Sustainability

CO₂ reduction, ESG requirements, and CSRD reporting obligations, increases the pressure to move away from diesel-powered machines. Electrified handling systems are becoming increasingly relevant, especially in material logistics.



Limited space availability

Conventional log handling with mobile machines can occupy up to 40% of the operational site. Reclaimed space may offer new opportunities for expanding into modern value-adding processes such as gluelam (BSH) or cross-laminated timber (CLT).



Occupational safety

Increasing requirements to occupational safety, higher accident rates and possible jurisdictional consequences are making investments in safe systems a necessity.



Wear and maintenance costs

Heavy wear – especially on drive systems – leads to substantial operating costs. At the same time, recruiting and retaining skilled maintenance staff is missing – the situation is becoming more and more difficult.



Increasing complexity

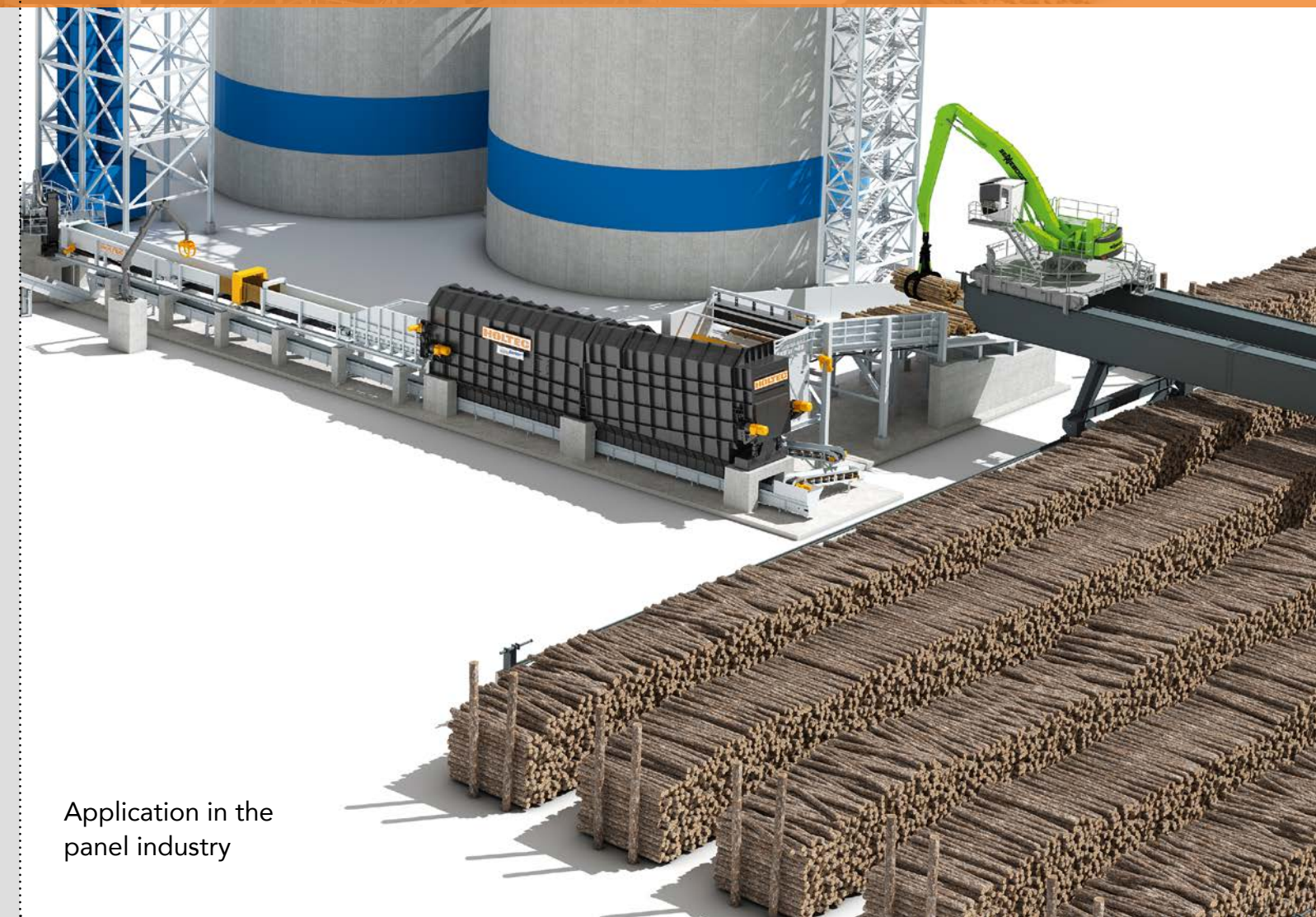
Manifold assortments, scarcity of resources and higher requirements increase the stress for the operators. Misplacements and sorting errors are becoming more frequent – hardly manageable without intelligent assistance systems.

Electric portal crane as **game changer** in the field of log handling. Our contribution to the energy revolution at the log yard.

Advantages of log yard concepts with electrically driven portal crane:

- Considerably lower **operating costs** compared to diesel machines
- Long **lifetime** due to electric drive
- Huge **CO₂-saving** over the lifetime
- **Reduced risk of accidents** by clearly defined safety areas
- **High handling capacity**, best visibility for the operator
- **Funding opportunities** with programs for CO₂-reduction*
- Optimal **utilisation of space** – up to 50% more storage volume
- Depending on the concept, considerably **reduced sealing** of surface. Cost savings for surface water, etc.
- **Reduced costs** for surfacing, sewer system, soil replacement / soil improvement and lower maintenance costs
- **Reduced formation** and emission of dust
- Flexible / **dynamic organisation of log stacking**. Possibility to use the FIFO method
- **Advantages in winter operation** due to rail system vs. wheeled machines
- **Attractive work places**
- **Partial automation, travel optimisation** and **remote operation** based on the chosen concept
- Expandable concepts with **feeding carriage** are possible

*) In a particular case the user has to check and apply for the individual funding opportunities.



Application in the
panel industry