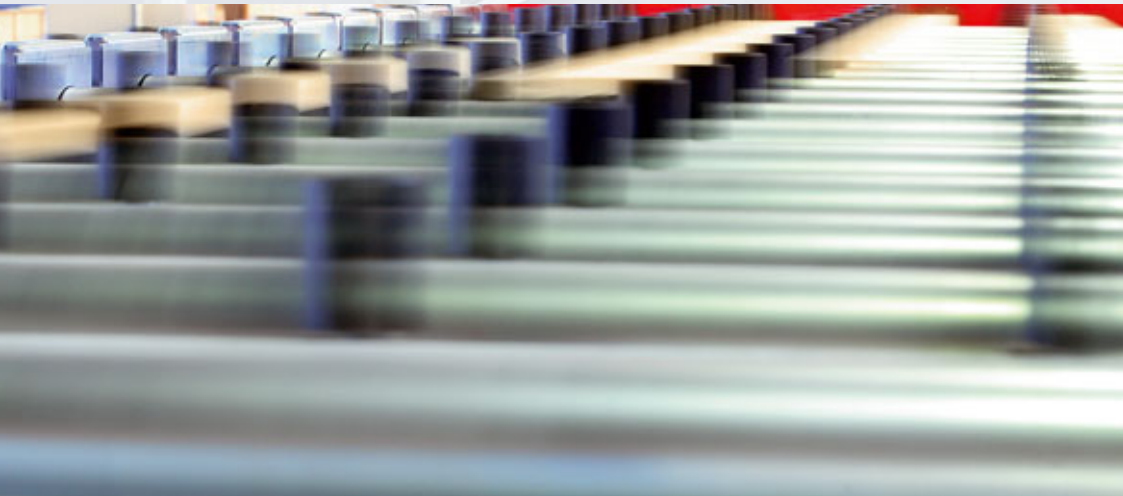
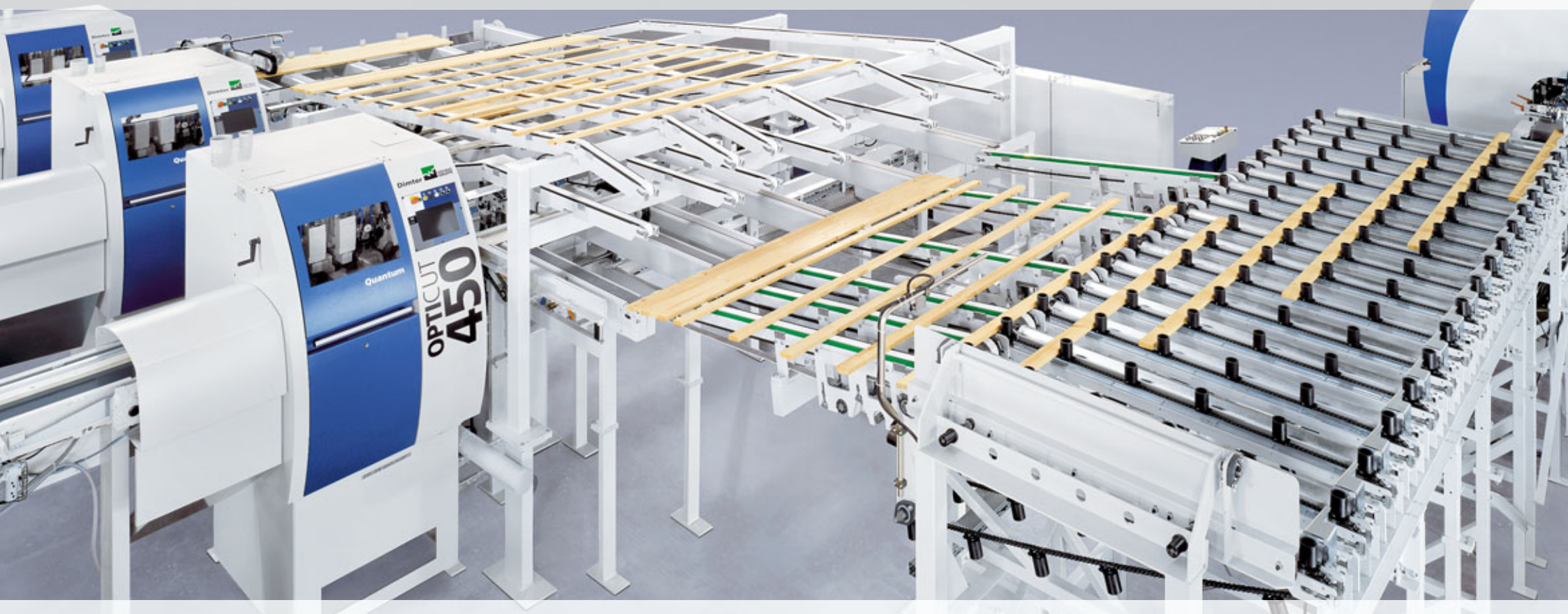


OptiCut system solutions

Fully automatic, high-efficiency optimising cross-cut lines
with huge performance potential





DIMTER offers complete concepts: From the conception to the turn-key production plant

DIMTER solutions offer more than just a great range of core machines. The OptiCut also comes with an array of peripherals – because to get the most out of your high-performance cross-cut saws, you need the right environment! We supply complete, tailor-made solutions for modern, forward-looking production. Ask our experts!



DIMTER Engineering, the expert team for complex complete solutions, offers the professional planning and consulting needed for such projects – anywhere in the world. Our assembled expertise brings you innovative system solutions. Our CAD engineers deliver made-to-measure project plans. Take advantage of our comprehensive service package!

Loading: Inlet area with automatic destacking systems

Scanner: Automatic wood defect detection with state-of-the-art sensor technology

OptiCut: High-performance cross-cutting saws for consistently high daily outputs

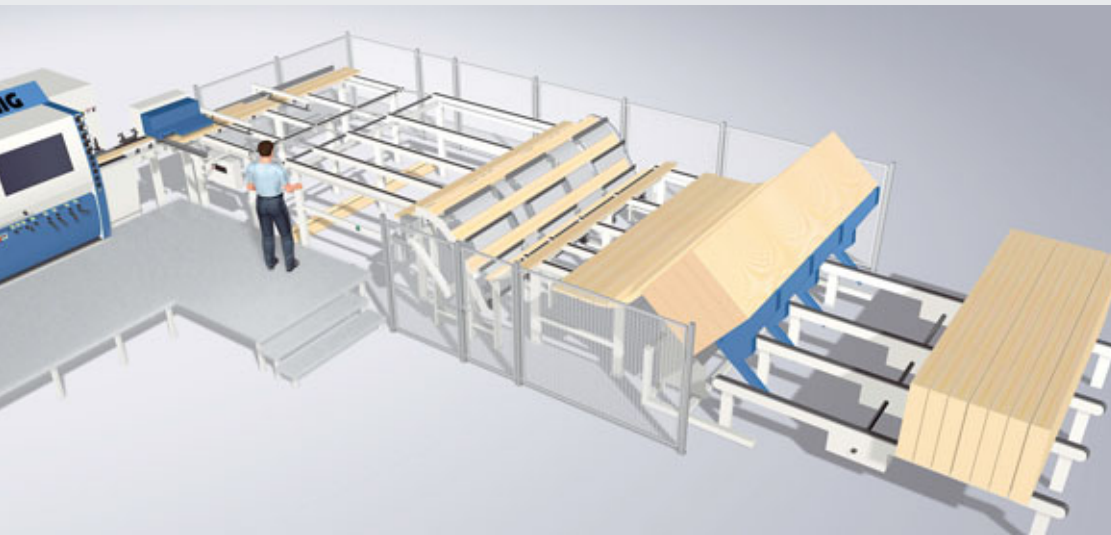
Sorting: Accurate sorting systems for easier handling

OptiCut Stacker: Speedy, reliable stacking of preferred lengths



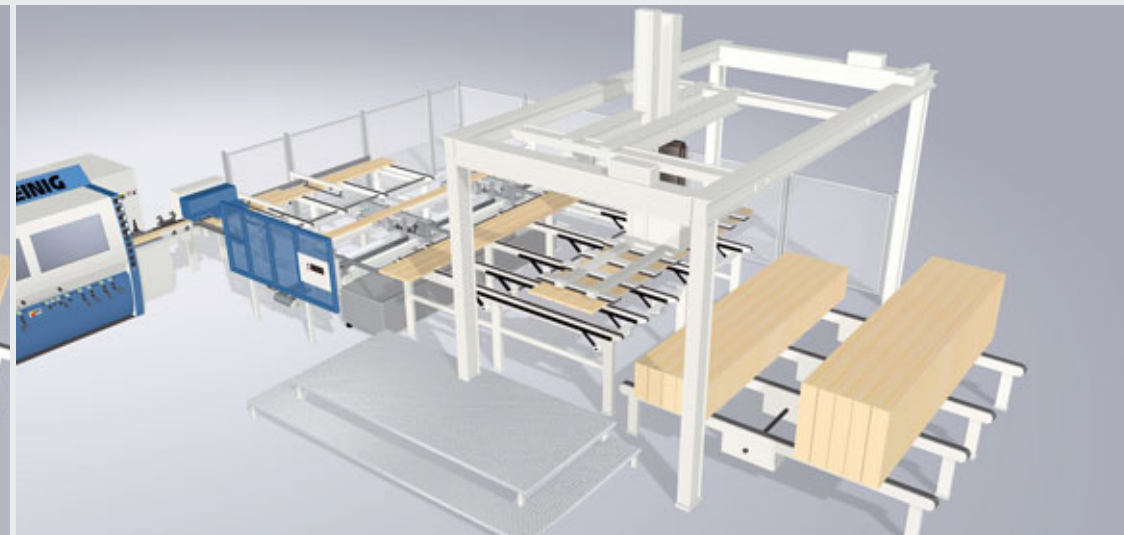
Fully automatic loading for your system: Extremely efficient and economic, ergonomic and functional

We have thought of everything and optimised the entire material flow – both upstream and downstream of the machines. For continuous loading, we offer intermeshing automation modules to suit individual requirements. On request, the task of detecting wood qualities can be performed by quick, reliable and customised scanners. Production is monitored by operators and is largely unmanned.



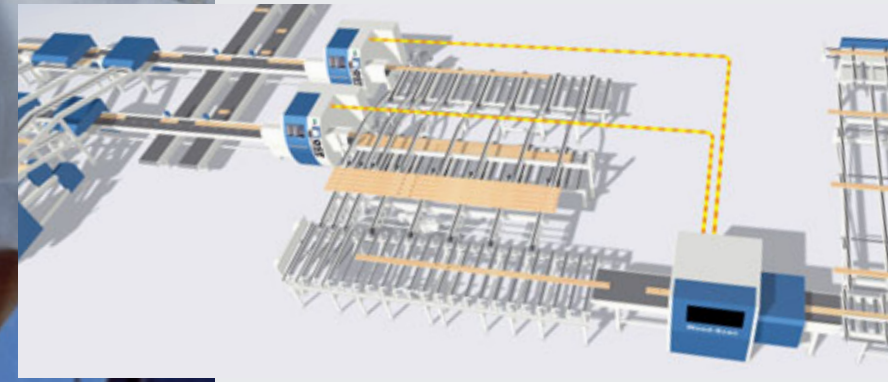
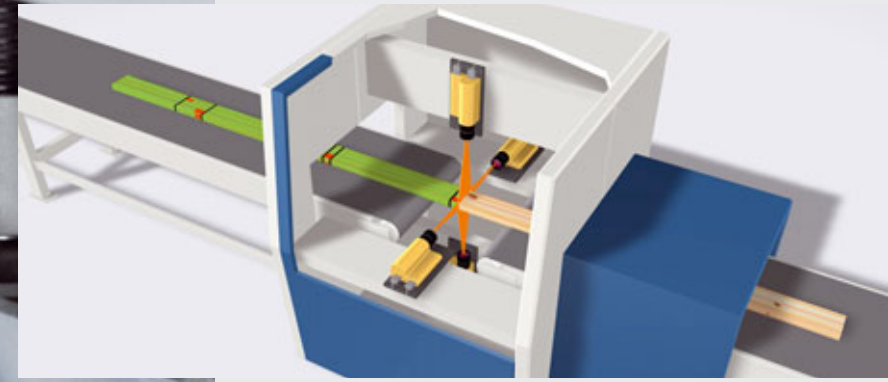
Loading via tilted destacking

- Stack feed system
- Gravity-assisted, layerwise slide-down of stack
- Automatic separation
- Visual inspection/sorting via rocker
- Part buffer for continuous loading



Loading via vacuum destacking

- Stack feed system
- Layerwise unloading with or without strip removal
- Customised destacking equipment
- Part buffer for continuous loading



Scanner technology and mechanisation solutions

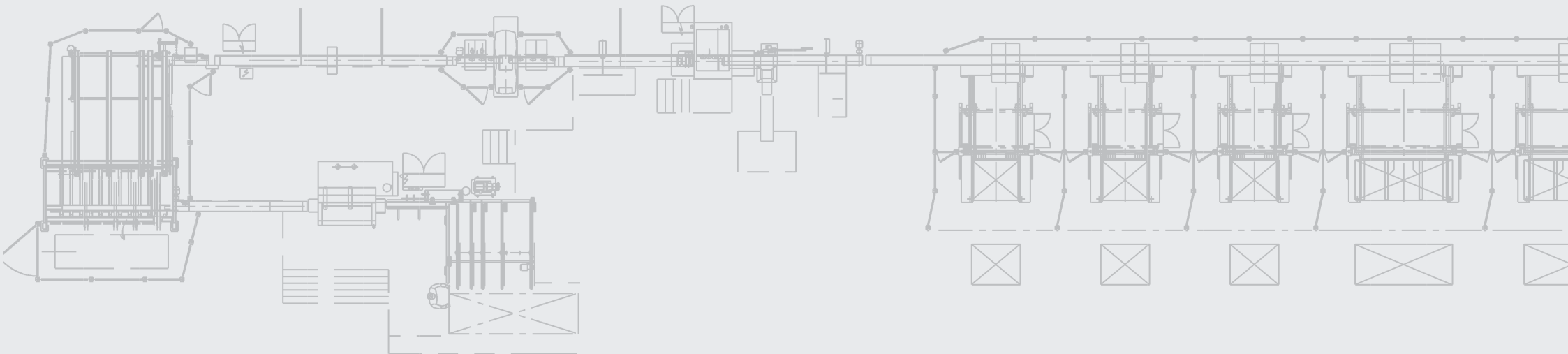
An upstream scanner is an integral component of a highly automated optimising cross-cut line. All systems available on the market can be integrated into the OptiCut system. The scanner scans the wood all over at lightning speed for the relevant data (knots, etc.) and supplies up to four OptiCut machines with optimisation data for the cutting process at full production speed. Without such automatic detection systems, the cutting rates achieved by the overall lines would be unthinkable. The control technology also has to meet the highest standards. DIMTER's development department provides solutions for high-automation systems. We guarantee a reliable production process – for both hard and soft wood applications.



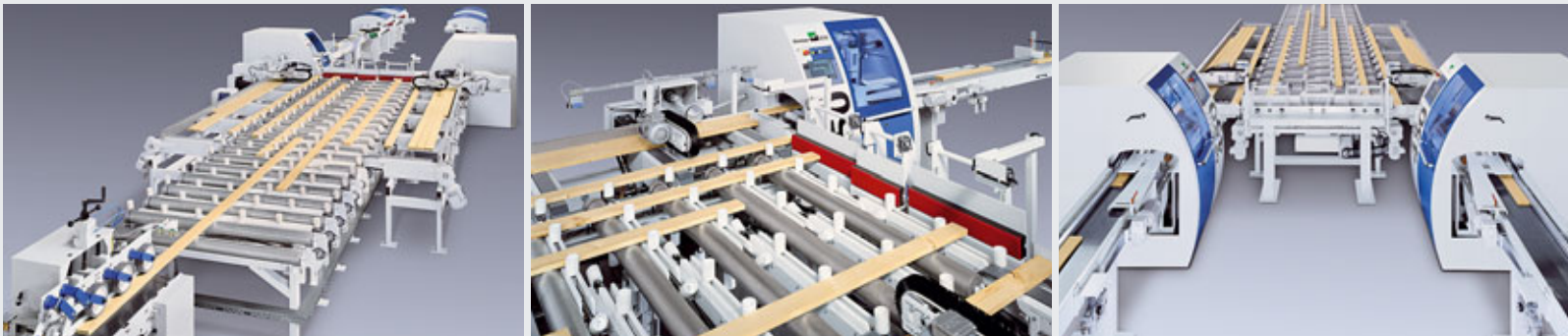
Examples of DIMTER automation: Continuous material flow, optimal yield, maximised profit

Improving the material yield holds the greatest potential for rationalising the process chain. Solid wood. The deployment of the resulting wood is determined during the cross-cutting and optimisation of the raw material. A higher wood yield at the raw wood cutting stage means more material and hence higher profits at each subsequent process stage. Innovative mechanisation solutions ensure a maximum yield coupled with a top production rate.

The example on page 6 shows a combination of 1 scanner and 1 OptiCut machine. Thanks to the unique VarioSpeed feed system, the gap between successive boards is reduced to a minimum, so that the OptiCut receives a continuous supply of wood. There is no need for an additional intermediate buffer.



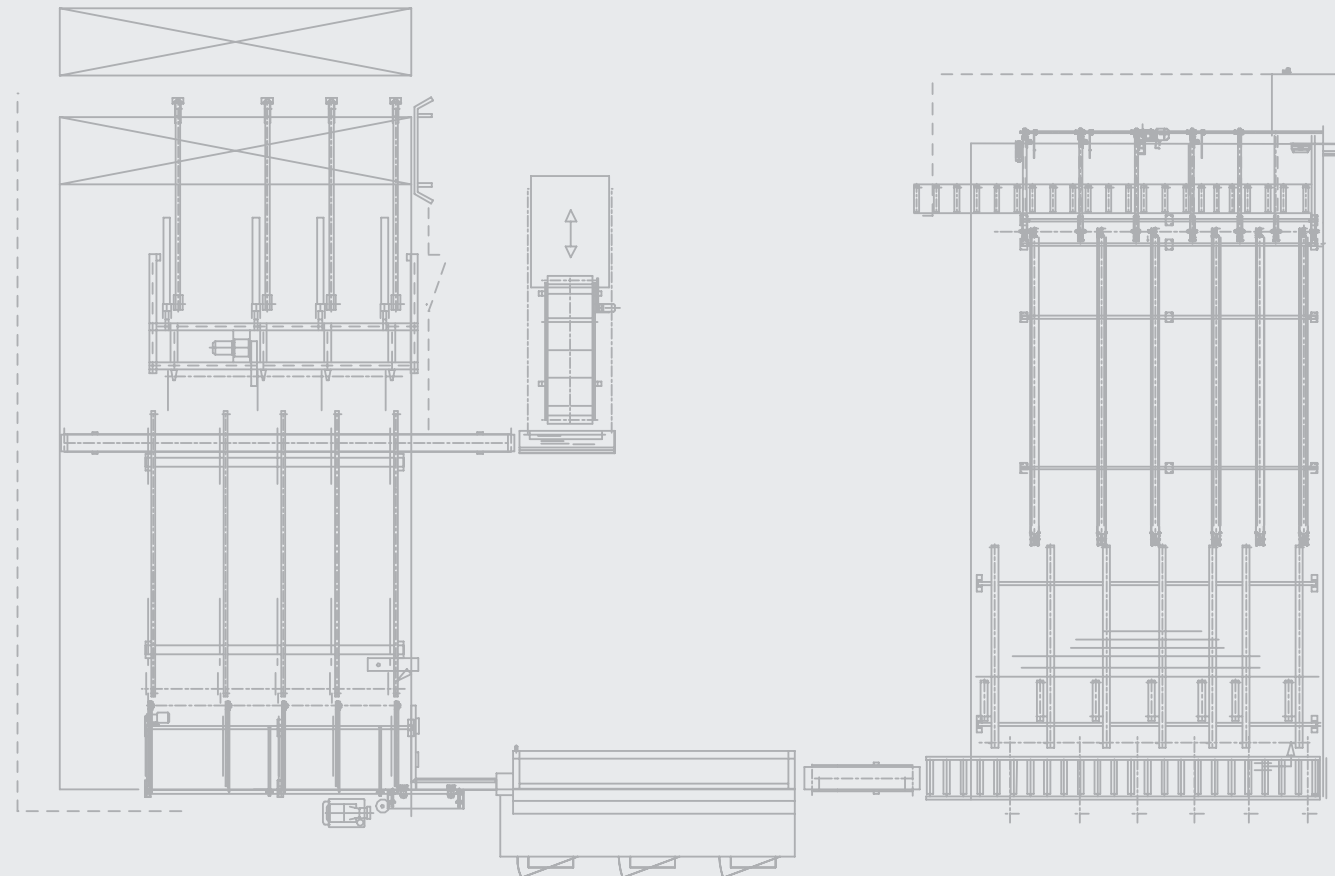
The example on page 7 shows an interlinked arrangement of 1 scanner with 2 OptiCut machines. A sophisticated mechanisation system keeps both OptiCut machines supplied with material simultaneously. This arrangement also makes use of the patented VarioSpeed feed system. Uninterrupted cross-cutting for a maximum daily output.

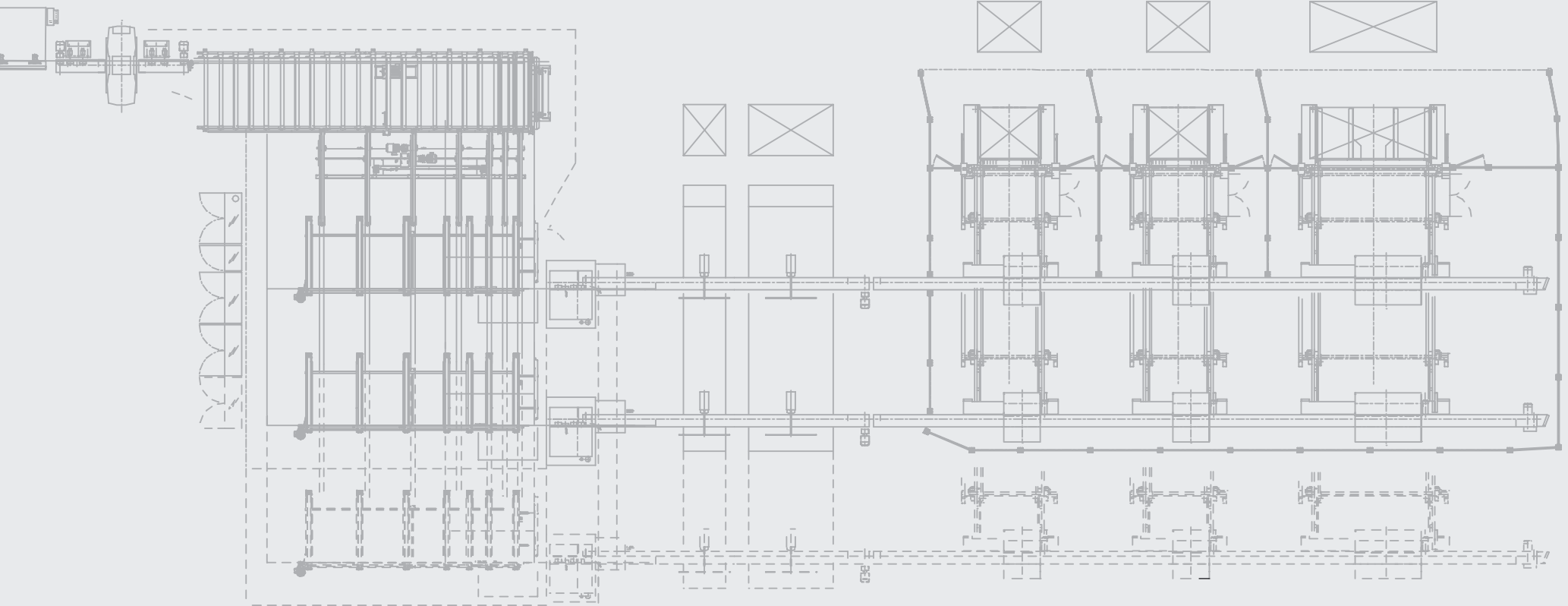
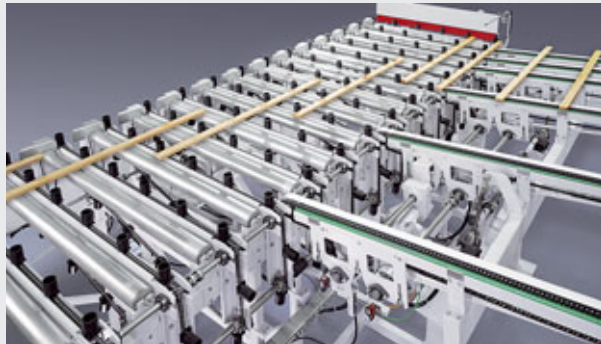
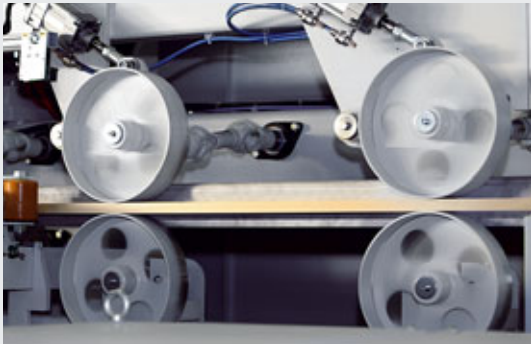


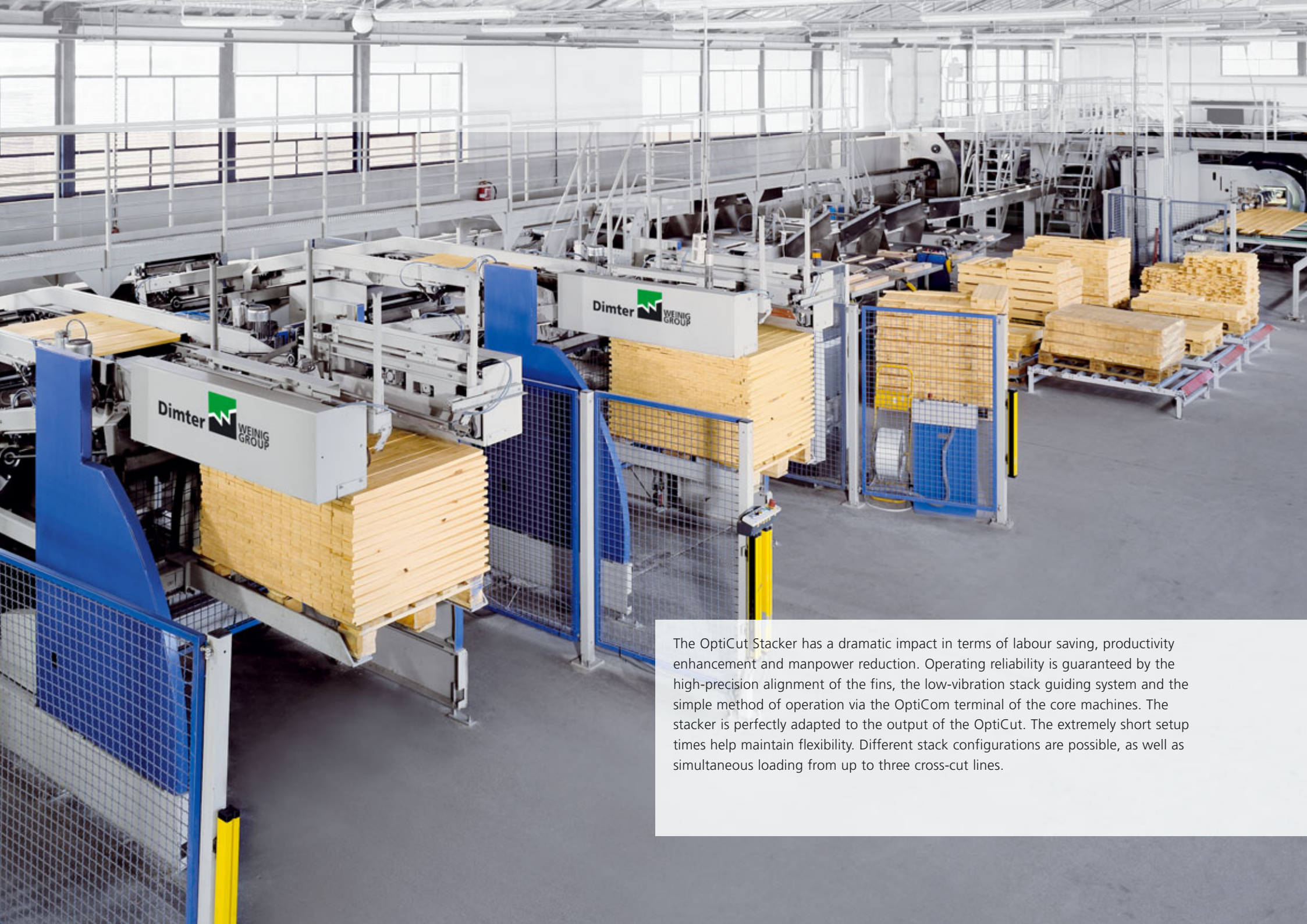
Example of DIMTER automation Flexibility combined with top performance

Thanks to the DIMTER modular principle, the line can be extended step-by-step from one to up to four OptiCut machines. The modular system based on industry standard components allows extremely short delivery times, high flexibility with plenty of upgrade potential and maximum reliability for your production process. The control systems developed by DIMTER ensure reliable board and data tracking throughout the line – an important factor in high-automation cutting.

On page 8 /9 you can see a planning example for a DIMTER optimising cross-cut line with 1 scanner and 2 OptiCut machines, with potential for adding a third saw at any time. Thanks to intelligent distribution and the VarioSpeed feed system, the saws are kept well supplied with wood at all times in order to ensure a consistently high capacity. The line can be readily adapted for shorter feed lengths – an important feature given increasing wood supply shortages.







The OptiCut Stacker has a dramatic impact in terms of labour saving, productivity enhancement and manpower reduction. Operating reliability is guaranteed by the high-precision alignment of the fins, the low-vibration stack guiding system and the simple method of operation via the OptiCom terminal of the core machines. The stacker is perfectly adapted to the output of the OptiCut. The extremely short setup times help maintain flexibility. Different stack configurations are possible, as well as simultaneous loading from up to three cross-cut lines.

DIMTER OptiCut system solutions

Your one-stop supplier for destacking, optimisation, cross-cutting and stacking

DIMTER high-performance lines can handle a vast amount of wood! With the know-how amassed from supplying over 500 optimising cross-cut saws per year and well over 100 cross-cut lines world-wide, we are the ideal partner for your complete solution. We design the whole process from the raw wood stack to the finished, stacked product. You can count on us – now and in future. The WEINIG GROUP is at your service world-wide – and you can rest assured that our experts speak your language.



The powerful accelerator keeps the scanner supplied with material. Speeds of over 270 m/min guarantee reliable loading of the cross-cut saws. The solid design minimises vibration during transport, thus ensuring a high standard of detection by the scanner. Sophisticated mechanisation and automatic stacking guarantee high productivity.



DIMTER is an innovation leader:

- Top quality and performance standards
- Top productivity thanks to high technical availability
- Highly automated lines to minimise personnel and production costs
- Service and planning reliability
- Modular construction allowing step-by-step expansion
- Perfectly coordinated delivery and start-up times
- Comprehensive service package
- 24-hour service thanks to qualified specialists and the latest online service tools





WEINIG CONCEPT – the project planning professionals for the wider picture of cross-cutting

The WEINIG GROUP in concert with its system supplier CONCEPT delivers perfectly coordinated wider solutions incorporating the optimising cross-cut lines e.g. yield-oriented, all-in-one cutting with optimised rip cutting on RAIMANN multiblade circular saws in combination with DIMTER optimising cross-cut lines, or perfect residual wood processing in an interlinked configuration of DIMTER OptiCut and GRECON finger jointing systems. WEINIG CONCEPT also offers you complete production lines, right through to turn-key equipping of entire factories.

WEINIG CONCEPT stands for all-round consulting and implementation expertise: from the initial project idea through planning and assistance with credit subsidy to the turn-key plant plus systematic training.

The project professionals at WEINIG CONCEPT unite the know-how of the WEINIG GROUP with first-rate system competence. For you the customer, this opens up the whole spectrum of solid wood processing applications. You benefit from the strength of a globally unique service partnership.



WEINIG gives you more: One-stop shopping – from expert consulting to impeccable after-sales service

High-automation cutting lines consist of numerous individual components and a complex sensor system which monitors and ensures the perfect interaction of all modules. DIMTER has developed a range of online tools for optimal sequence monitoring. That way the entire line can be monitored from the office and from the world-wide service centres of the WEINIG GROUP.



That way possible error sources can be systematically eliminated and sensor failures predicted before they can lead to malfunctions and consequent downtime. Service is provided quickly and reliably by our qualified specialists – 24 hours a day. All this adds up to a much higher overall line availability, and hence to a faster payback through the production output.

The long experience and high innovative power of all companies of the WEINIG GROUP give our customers the planning and service reliability they need for the future. Thanks to our innovative modular design, you can build up the capacity of your line step by step. DIMTER cutting lines grow with our customers' needs.

Via the online link of the line control system, performance reports can be emailed automatically on a daily basis.

Technically perfected machine concepts in combination with sophisticated mechanisation systems increase wood yield, quality and profit. Personnel costs are reduced. Secure your long-term market opportunities. Talk to our specialists! For interlinked solutions, unmanned production or high-performance installations – in us, you'll find the ideal partner!

The WEINIG GROUP:

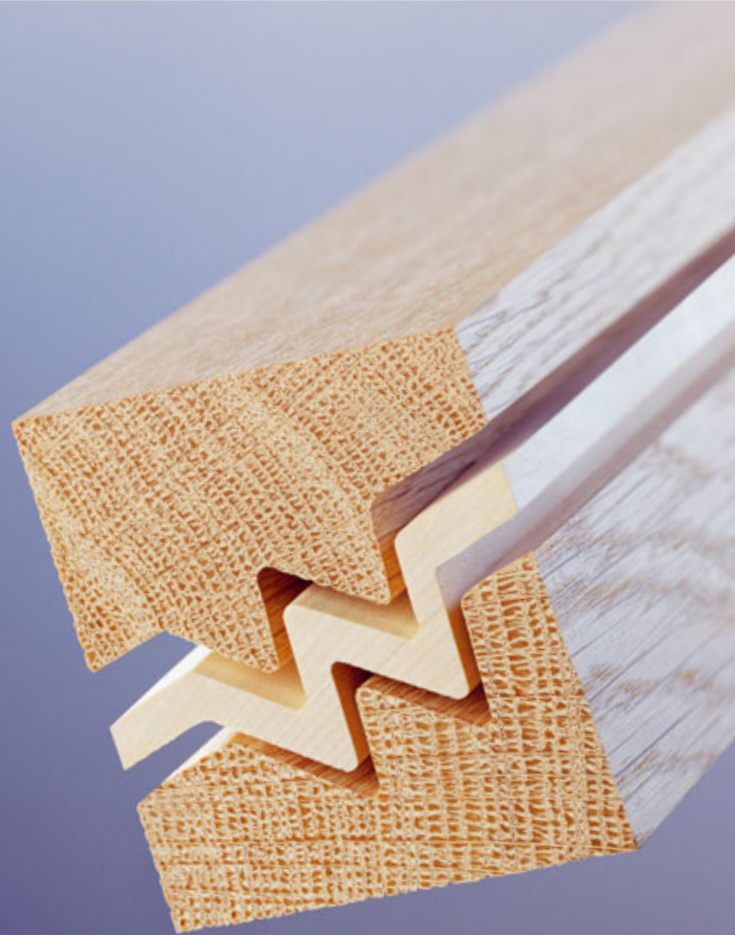
**We seamlessly combine
all components of
solid wood processing**

Including full turn-key production plants

To build innovative machines is one thing, to offer system solutions is something else. More and more, our customers want the entire factory. That's a case for our team at WEINIG CONCEPT. Here the competence of the WEINIG GROUP combines in a special way. From planning to the turn-key production plant, our professionals handle it all. Worldwide. For you.

A strong team

Every member of the WEINIG GROUP is a leader in their product specialty. This creates valuable synergy that ultimately benefits you and your business.



WEINIG

World market leader
for moulders

WACO

No.1 for high-speed
moulders and planers

GRECON

High-performance
finger jointing lines

DIMTER

Specialist for
optimizing cross-cut
saws and gluing presses

RAIMANN

Top technology for
rip optimization

CONCEPT

Your competent partner for
complete system solutions

OptiCut system solutions



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