Innovative optimization scanner for ripping

WEINIG
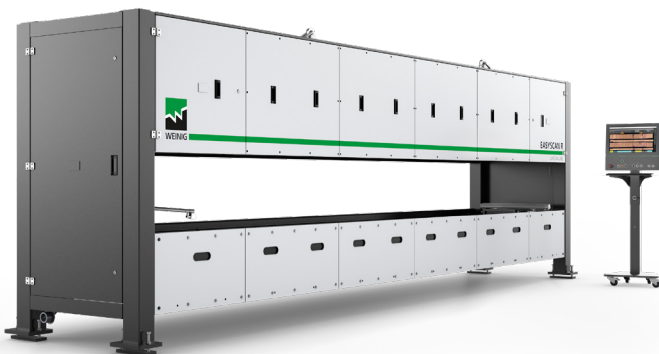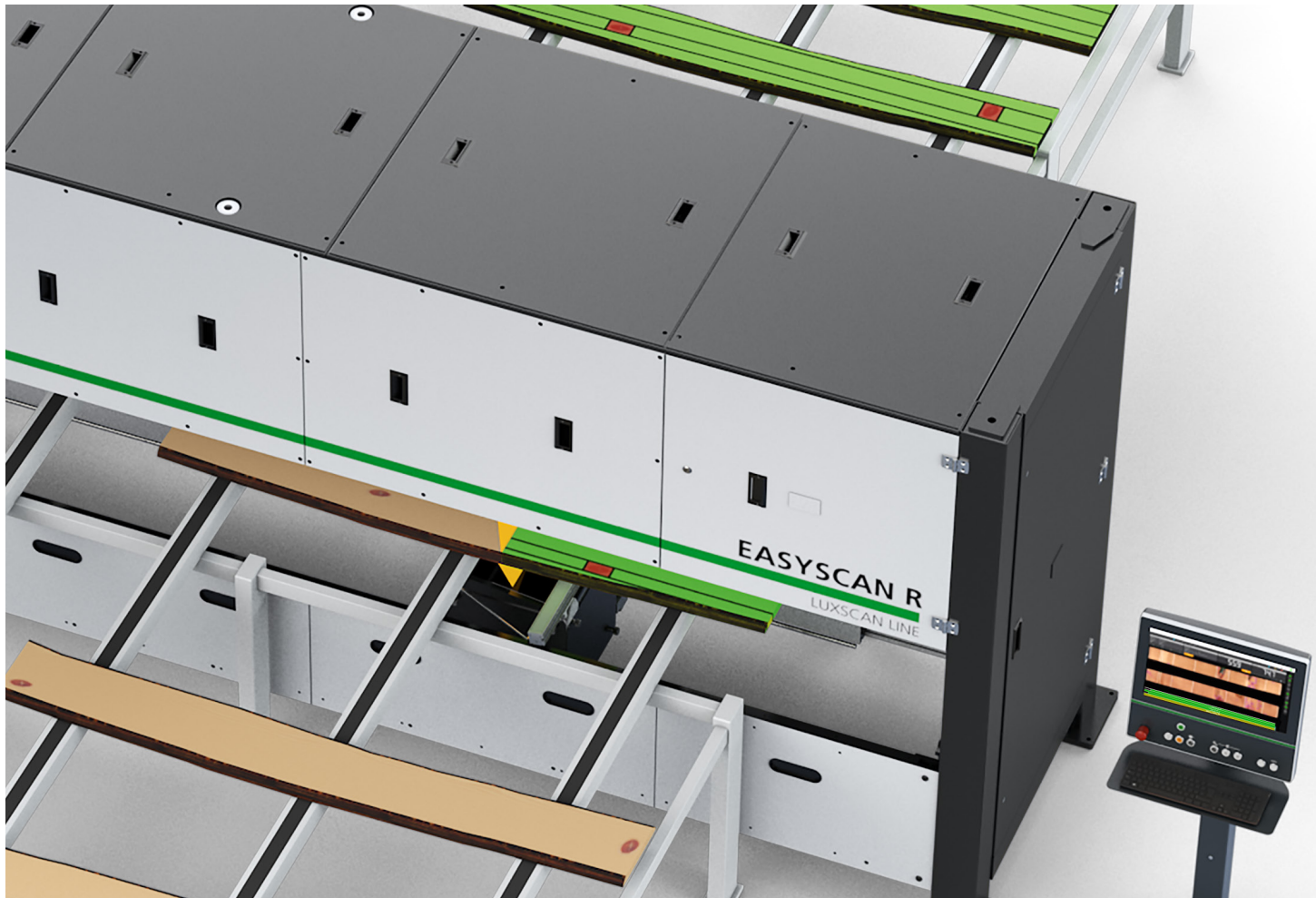
EasyScan RT: innovative scanning solution for maximum quality

Movable camera for tranversal scanning

Small footprint, fits ideally in narrow spaces

EASYSCAN R
LUXSCAN LINE

Perfect fit for a ripping line

Up to 20 boards per minute
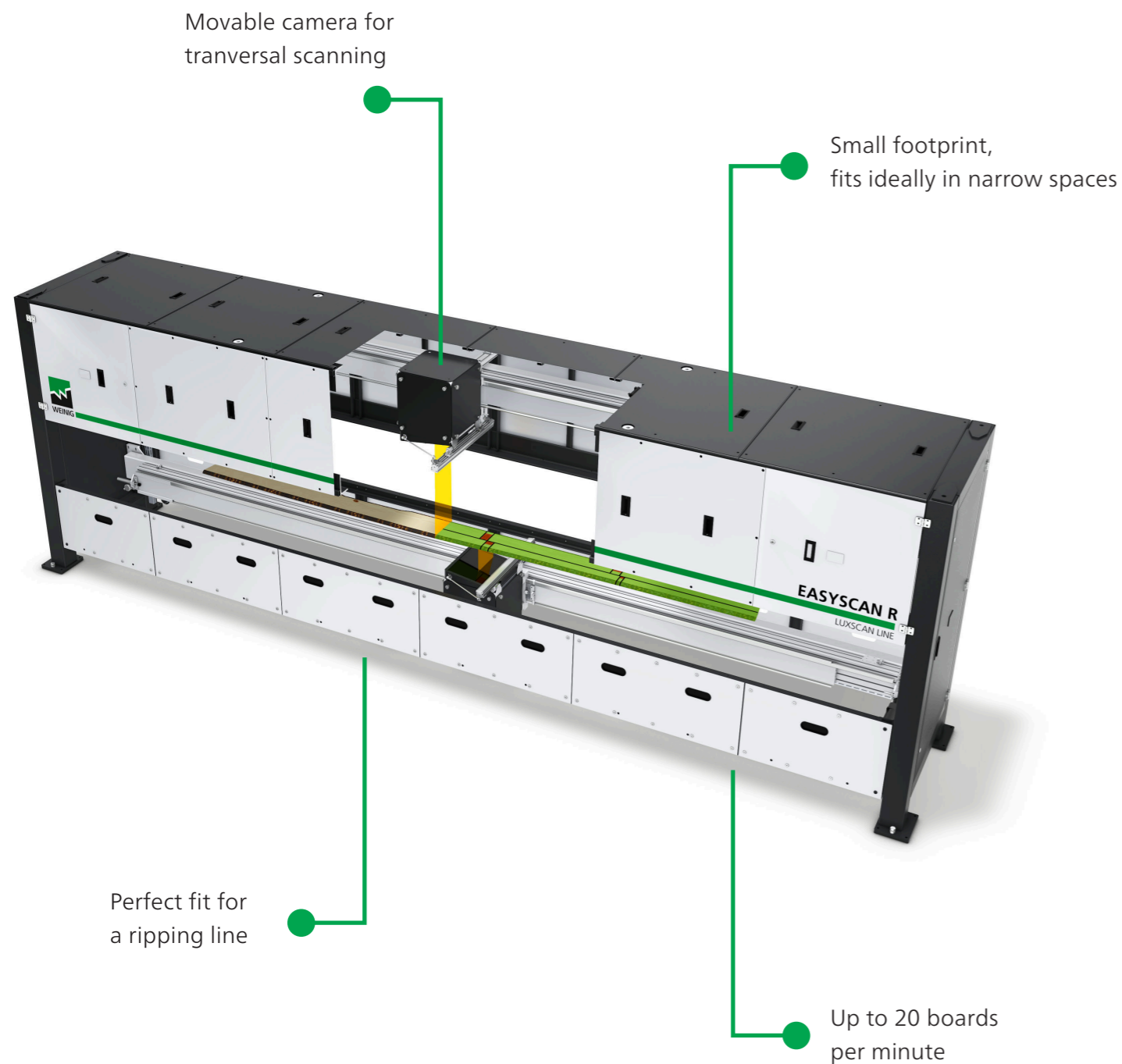
EasyScan RT – ideal for ripping lines

- **Movable camera** enables perfect reading of boards.

- **Dot Laser** increases detection of plenty of defects.

- **3D Laser** creates an accurate geometric reconstruction of the board's surface shape to optimize it in every detail.

- Our **OptiCore** is an intelligent optimization software to help you maximise your yield and profit.

Movable camera

Colour camera

Laser 3D

Dot laser
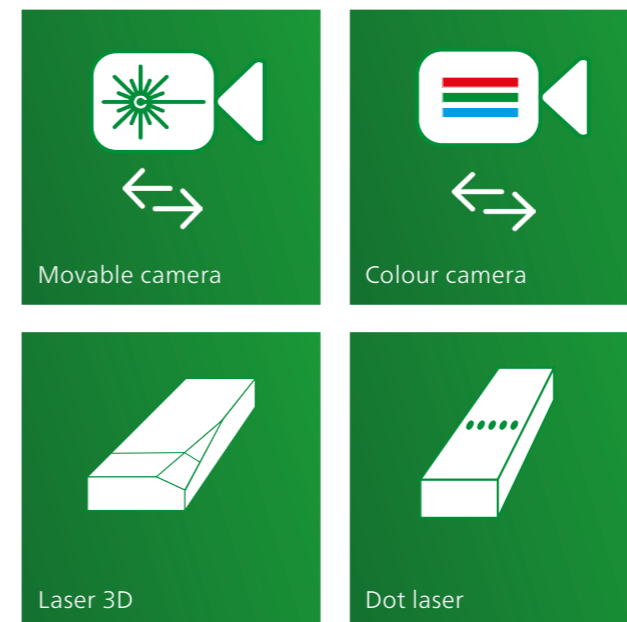
You can expect a lot from us!

Fast return on investment

We offer you the best optimization solution for each board processed in your sawmill. Every centimetre and every millimetre that you can recover will translate to profit for your company.

Quality assurance

Scanners guarantee a consistent quality of your products. Thus, you will be able to deliver the best possible product to your customers.

Increased output

Scanners are able to proceed up to 20 boards per minute, which is much faster than the manual process. Automated defect detection will increase your performance and output.

Lower labour costs

It may be challenging to find qualified sawmill personnel. With automatic scanning, this challenge can be overcome and labour costs reduced.

WEINIG offers more

Scanning a new dimension

The EasyScan RT brings the next generation in scanning for ripping. With the revolutionary concept of movable cameras, it distances itself from the competition. Compared to traditional transversal scanners the number of sensors is reduced to a minimum, and with it also the investment costs. With the new scanner design, the mechanization can be kept simple and therefore economical. The boards are moved with a cross conveyor into the scanner, stopped and scanned. For this, the cameras move along the length of the board.

With this innovative system, the mechanisation and the necessary floor space can be reduced significantly. Compared to traditional lengthwise scanners this can provide a substantial saving on both new and upgrade projects.

Existing optimising lines with and without shape measurement can be upgraded with the EasyScan RT quickly and in a very cost-effective way as the concept often allows the use of the existing mechanisation.
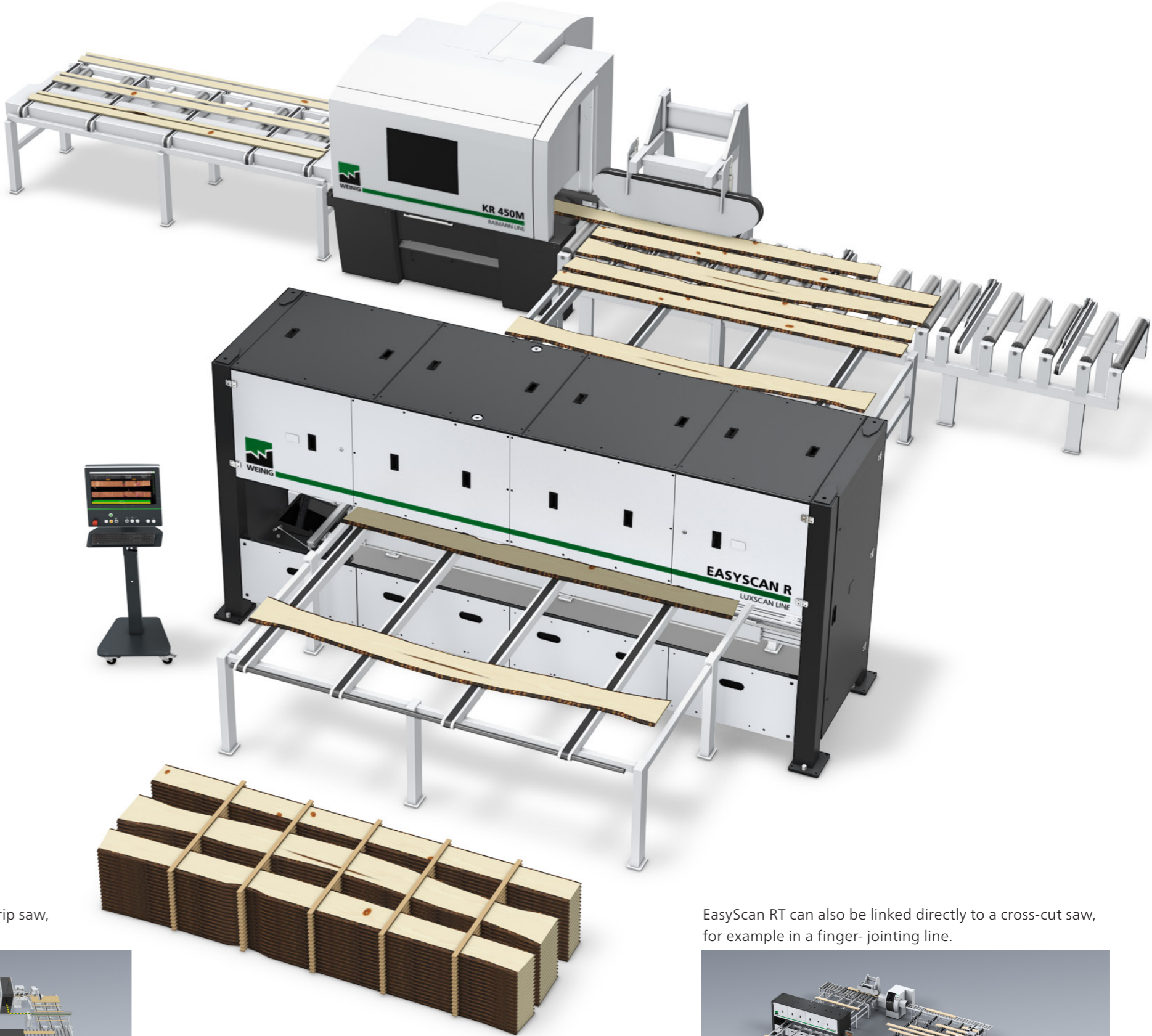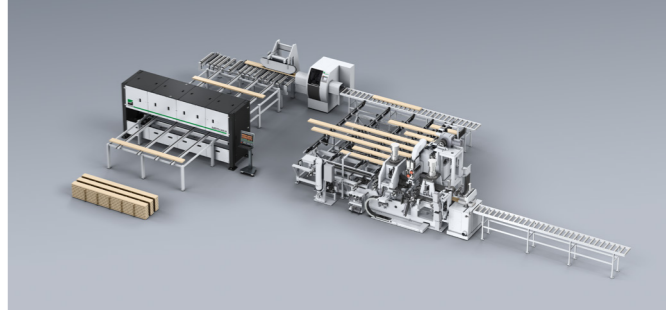
EasyScan RT can be fit easily into your existing line thanks to its small footprint.
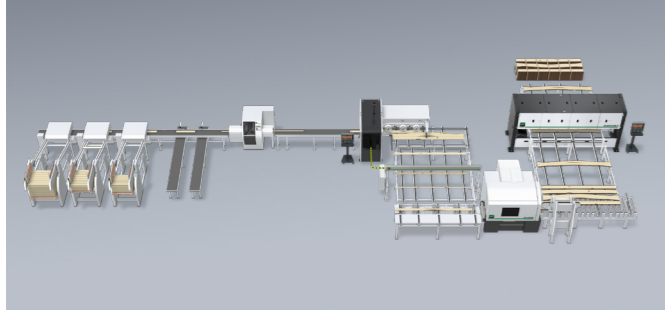
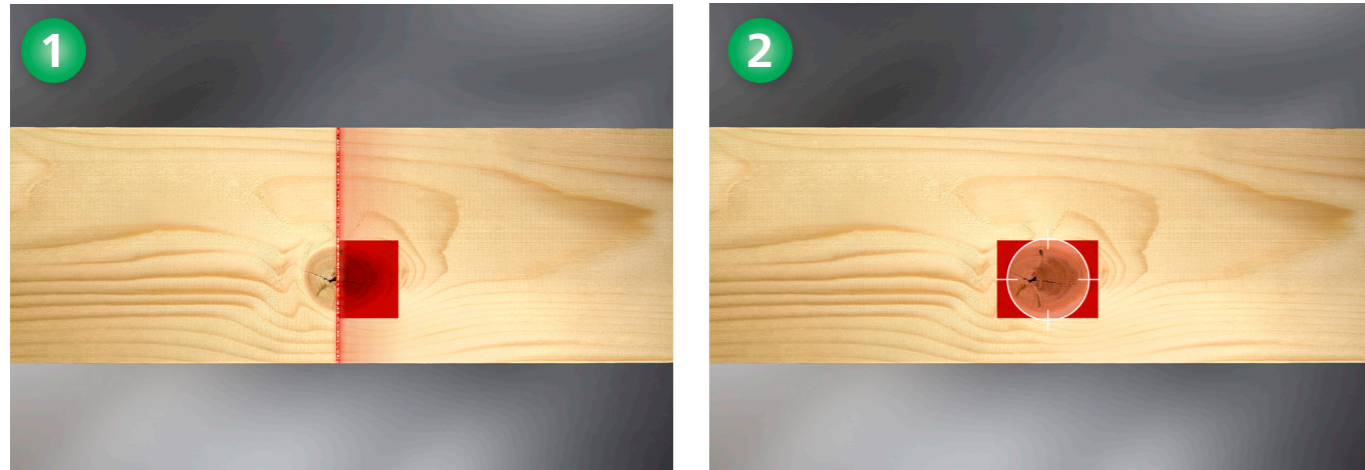EasyScan RT can be integrated before a rip saw, as shown in the example below.
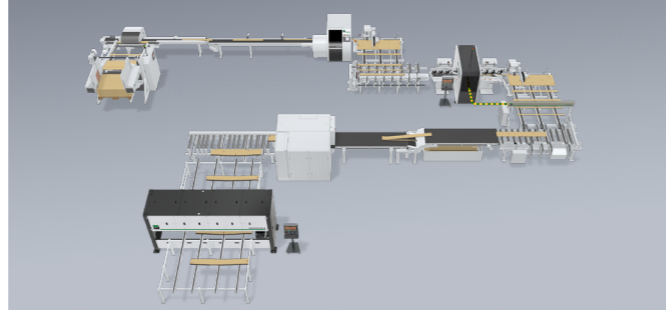
EasyScan RT can also be linked directly to a cross-cut saw, for example in a finger- jointing line.

Optimizing – the one, two, three

1

2

WEINIG scanners use multiple sensor technologies, such as laser cameras, colour modules*. Suitable for many applications your WEINIG expert will advise on the appropriate scanner based on the wood species, surface quality and required performance. Our goal is to achieve the best possible information quality for each customers' application.

In the next step, image processing, the highly developed OptiCore software takes over. It can see and identify different defects as well as colour variations on the board. Quality data from the multiple sensors allows for optimal data processing and defect identification.


3

A / B
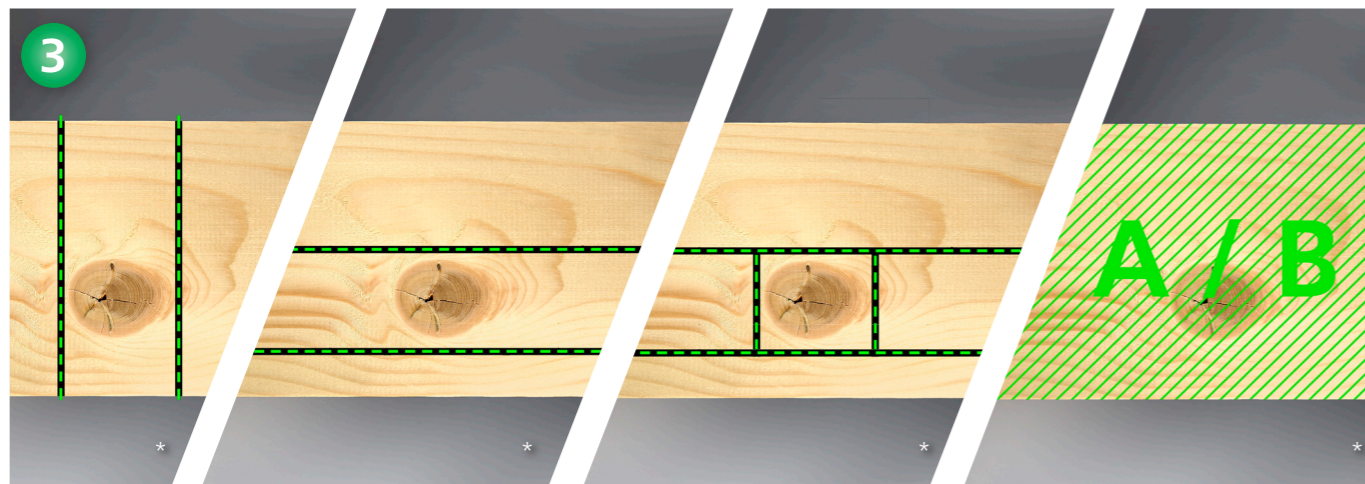
The optimization from the powerful OptiCore software provides the best solution for cross-cutting, ripping* or sorting. It takes into account various customer requirements and quality demands. Based on the exact characteristics identified during image processing, the board is optimized according to customer requirements. There are unlimited possibilities in the definition of products and qualities. By dividing the products into diverse zones, complicated qualities can also be easily dealt with. Therefore, all kinds of end products can be produced.

* not available in all scanner models

Image Processing

All our systems are fitted with laser cameras as standard. Additional color modules are available. With the detection capabilities of both combined the best results are guaranteed. The established concept of movable cameras ensures a much higher resolution than traditional transversal scanners. Continuous development in these industrial sensors ensures performance is continually improving. Using this technology it is possible to identify defects such as knots, colorations, etc. The improved laser system also allows detection of 3D surface defects such as holes, wane and edge defects.
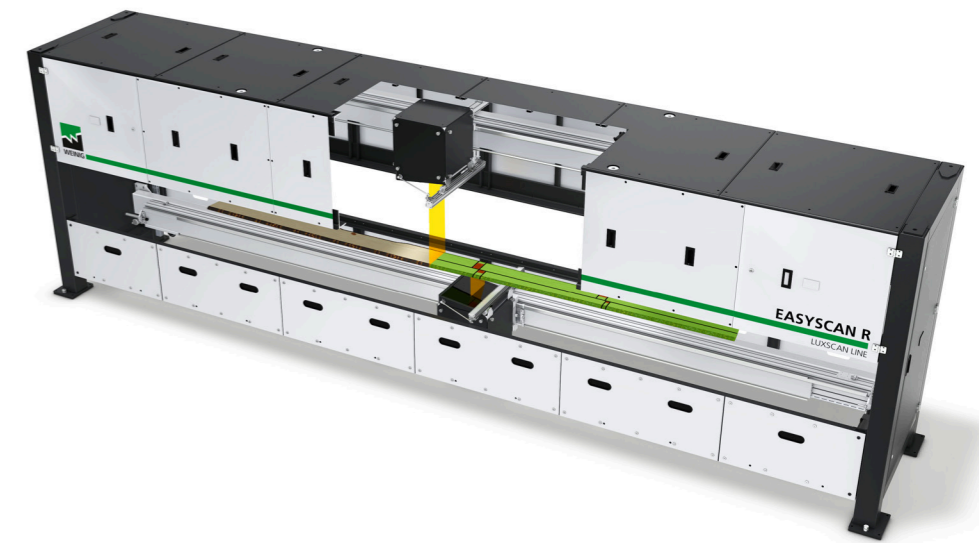

Fibre analysis
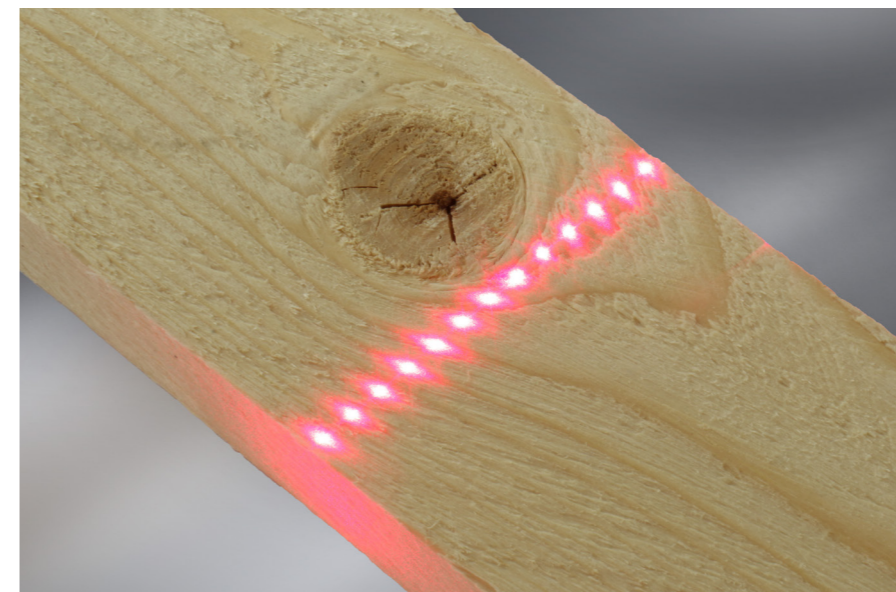
An important part of maximizing yield and profit is locating the correct cut position, especially for finger-joint products. The scatter technology, consisting of one dot laser provides this accuracy. The dot laser will improve defect detection, especially on rough surfaces. Cut positions can be improved based on the angle and shape of the dots. This helps to prevent damage in finger-joint applications and to identify weak areas in strength grading products. Both hard and softwood can be processed.

Powerful optimizing software
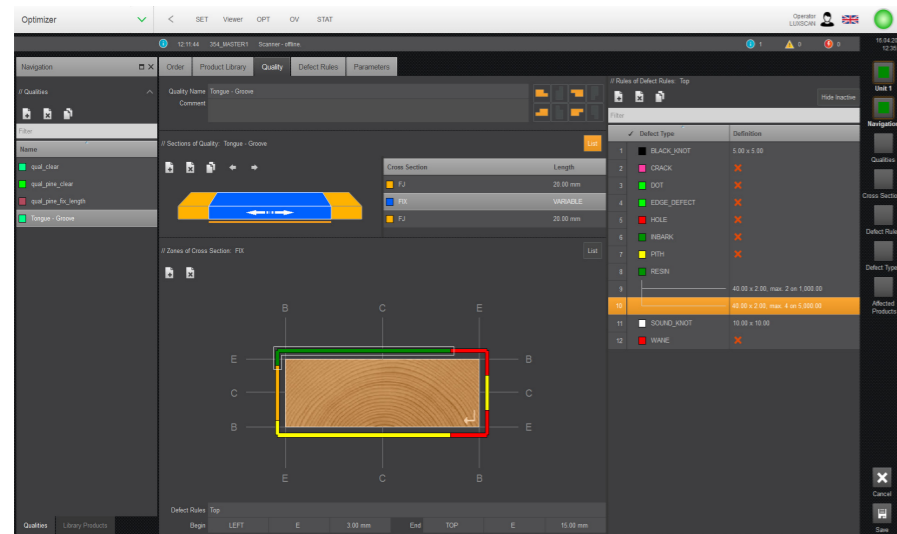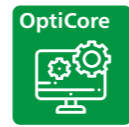
OptiCore

Simple optimizing is the key to efficient production management. The powerful optimizer, OptiCore, allows you to programme multiple qualities and zones, tailored to your final product requirements. Multiple products and qualities are stored in a library and can be quickly and easily combined using the ""drag and drop" feature. The logical interface of the scanner improves the set-up which is simple for any operator to use. This assures high reliability, maximum availability and excellent performance. Operating mistakes are reduced if not even eliminated.

OptiLink: Advanced optimizing
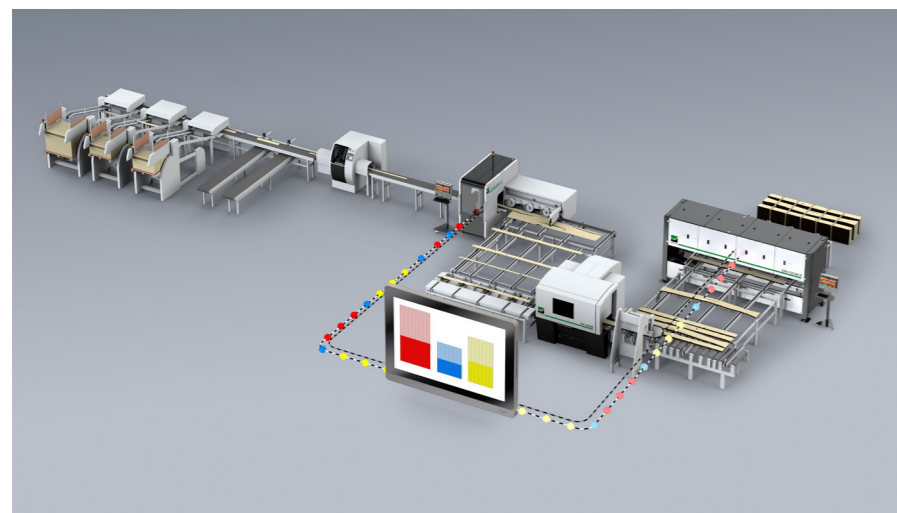
OptiLink

Running complex processes has always been a difficult task. Combining different applications and production lines complicates the flow of information. OptiLink has been designed to optimize production management by centralizing the information flow. With only one access point to your production, producing just-in-time is no more a complex task. OptiLink minimizes operating errors on one hand and reduces intermediate stock on the other, which is a central benefit. Connectivity to ERP systems, ensuring easy access and data transfer, is another.

Overview of the EasyScan RT series: Standard specification and options

The table shows the standard technical specifications. For further, more detailed information according to your individual needs please contact your WEINIG expert.

	EasyScan RT 4000	EasyScan RT 5000	EasyScan RT 6000
Max. speed (pcs of 3,5 m/min)	up to 20 *	up to 20 *	up to 20 *
Min. / Max. input length (mm)	900 – 4000 *	900 – 5000 *	900 – 6000 *
Min. / input width (mm)	100 – 610 *	100 – 610 *	100 – 610 *
Min. / Max. input thickness (mm)	15 – 100 *	15 – 100 *	15 – 100 *
Hardwood / Softwood	● / ●	● / ●	● / ●
Working height (mm)	950 *	950 *	950 *

Standards and options (internal)			
Laser camera 1 side	●	●	●
Color module 1 side	○	○	○
Laser camera 2 sides	○	○	○
Color module 2 sides	○	○	○
LED – lighting	●	●	●
Fibre analysis (dot laser)	○	○	○
3D Laser	●	●	●

● Standard   ○ Option

* Other speeds, dimensions or working heights upon application. All scanners will be matched to customer requirements. For this reason, technical details may vary. Technical changes possible. Statements and illustrations in this brochure include optional extras which are not included in the standard specifications. Covers sometimes removed for photographic purposes.

Foetz, Luxembourg: Centre of Excellence for Engineering and Manufacturing

WEINIG offers more

We are here for you.

Comprehensive advice, for example on optimum process integration of your new scanner, is standard service at WEINIG as well as a well-tested training plan with effective training sessions. Our branches in all four corners of the earth and an extensive service team guarantee rapid help where and when you need us.

Advice

Training

MORE EFFICIENCY OR MORE FLEXIBILITY?
WHY NOT BOTH?

THINK WEINIG

My customers' needs are dynamic and I need to level up to meet them. From mass production today to mass-customization tomorrow, times of great change bring new challenges daily. I need a partner who not only sells us a machine but guides our team into the future with comprehensive advice and scalable, flexible production solutions. **WEINIG offers more.**

Your link to the next level: **think.weinig.com**

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