

The Weinig Group:

Unsurpassed expertise and quality for solid wood machining

- **Weinig:** World market leader for automatic moulders

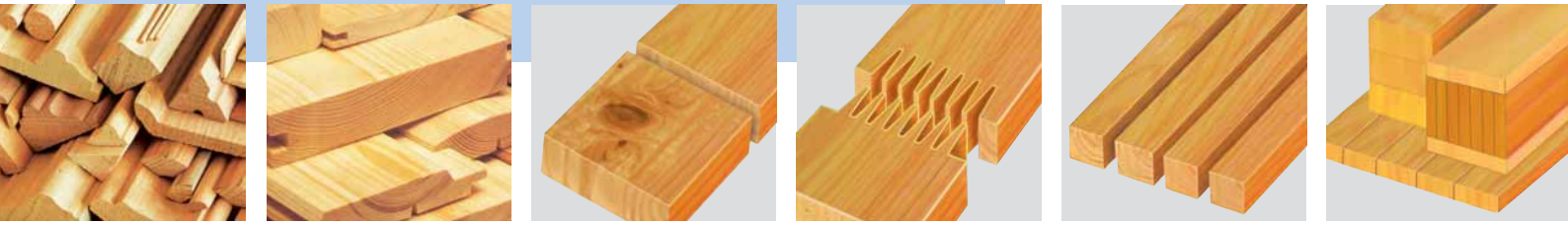
- **Waco:** The No.1 for high-speed planers and moulders

- **Grecon:** High-capacity finger jointing lines

- **Dimter:** The specialist for optimizing cross-cut saws and laminating presses

- **Raimann:** Top technology for length cutting

- **Concept:** The experts when it comes to turnkey projects



RaiMech – Handling equipment



More information about the RaiMech-Handling equipment: Fax +49 (0) 7 61/1 30 33-17

- Please send me detailed information
 Please arrange a personal consultation

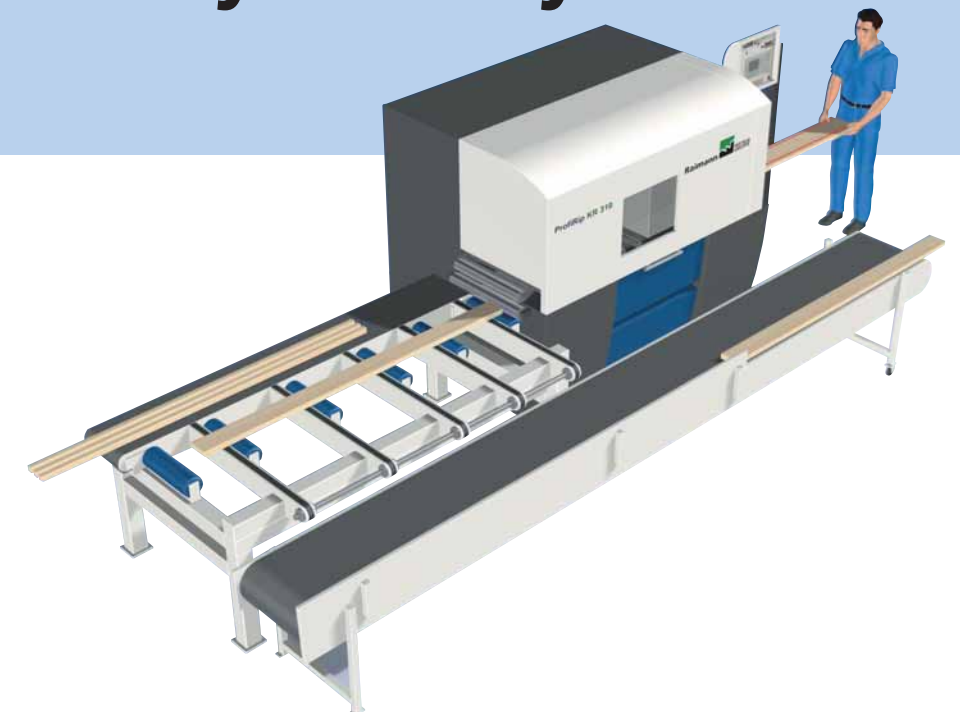
I am interested in

- The entire range of the Weinig Group
 The Weinig range
 The Waco range
- The Grecon range
 The Dimter range
 The Raimann range
 The Concept range
(please mark with "x")

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Weinig offers more!

Highest performance and optimal timber yield with complete systems by Raimann



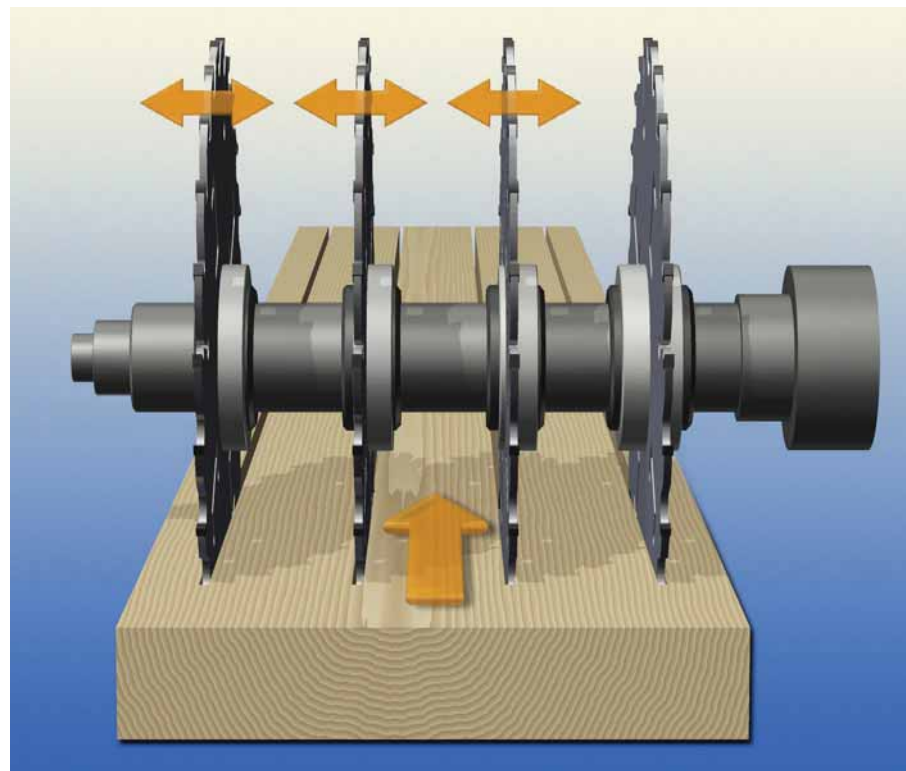
Modern solid wood ripping with intelligent solutions by Raimann

RaiMech is the result of experience and extensive know how of the solid woodworking process – providing you with proven standard components and modules for a complete ripping system.

– High-end-solutions, fulfilling all customers' wishes and requirements.

With Raimann standard material handling you will increase the productivity of the optimizing rip saws and add intelligence to your process. RaiMech allows you to get the best out of your existing and new rip saws. Highest throughputs and maximum yield with minimum labor are the results.

And, so it goes for all products of the Weinig-Group: – with regard to economy, reliability, durability and quality, you won't find anything better!



- **Highly standardized and modular**
- **Quick delivery**
- **Proven technology**
- **Fast installation**

- **Safe and operator-friendly**
- **CE conform**
- **Best price-performance ratio**



Machine and material data for Raimann complete systems

Feed speed of the gang rip saw	max. 80 m/min
Length of timber min./max.	800 mm/6000 mm
Width of timber max.	1000 mm
Thickness of timber min./max.	10 mm /180 mm

Performance of the RaiMech complete systems

Performance data depend strictly on the board or workpiece sizes and on the individual operator.

The indicated performance is based on a "standard board"
 length = 3000 mm
 width = 300 mm
 height = 38 mm
 and a "standard rip set-up"
 (4 saw blades, 3 strips + 2 waste pieces).

Under the "multi rip saw" category there are gang rip saws, optimizing saws and Quickfix versions.

In each case all performance and technical data have to be clarified with Raimann Holzoptimierung.

Raimann Optimizing Systems TimberMax – Increase process yield, maximize the profit

With TimberMax to the maximum

TimberMax – the optimizing program for width ripping on Raimann multi rip saws with movable saw blades. Basis for the optimizing is the board measuring, either manual or automatic. TimberMax is an indispensable tool for the maximizing of timber yield and productivity in solid wood ripping.

TimberMax – Optimizing according to your requirements

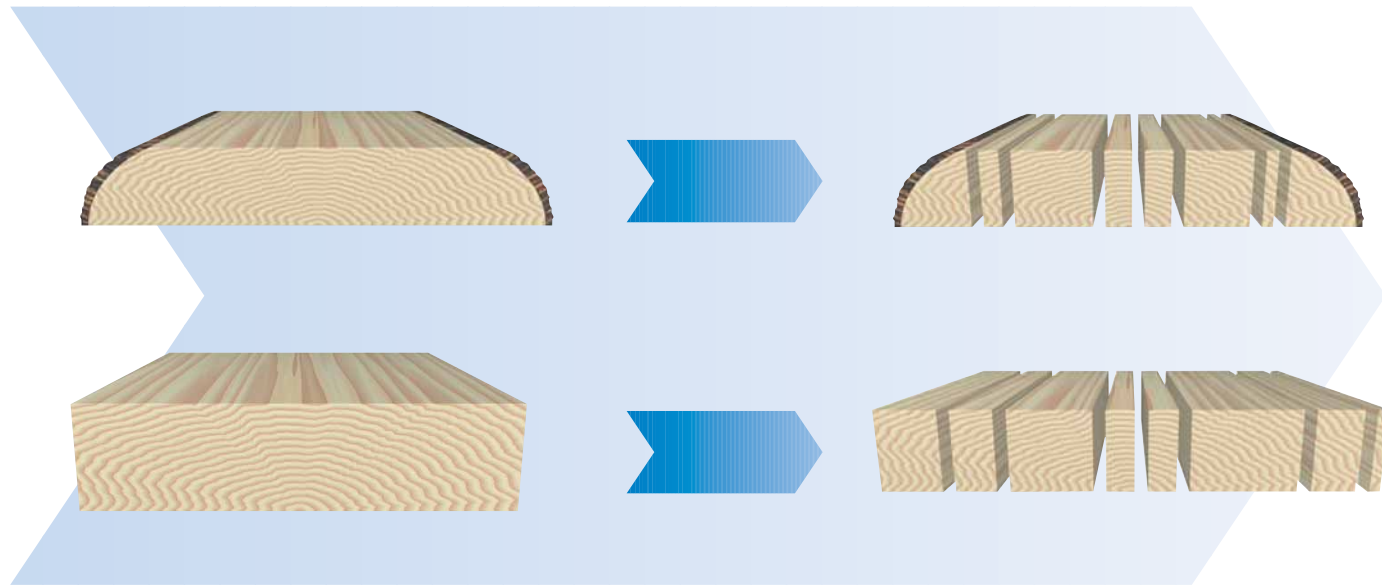
This software, developed by Raimann Holzoptimierung, calculates the optimal size combination for each board, based on a cut-list. The different variations take care of the following influencing factors:

- Width
- Quality
- Price
- Number of pieces

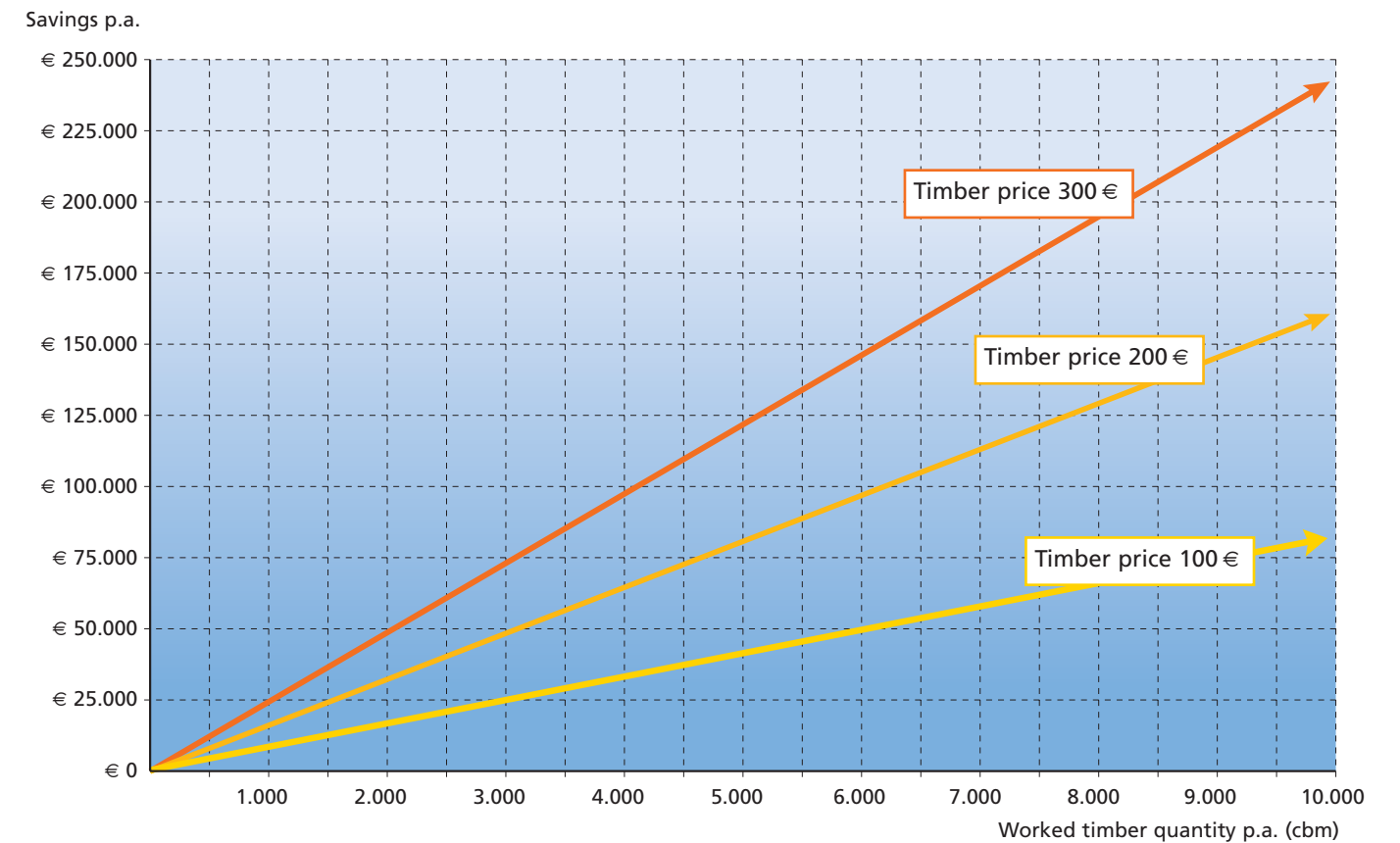
- Width optimizing: pure width optimizing, ripping the raw material according to a cut-list. The best combination of sizes results in the maximum yield.
- Quality: Width optimizing, ripping the raw material according to a cut-list. Different quality levels are considered. The best combination of sizes results in the maximum yield of different qualities.

- Price: Besides the sizes, the prices are also stored in the cut-list. The ripping process will be optimized in a way to achieve the highest price for each board.
- Number of pieces: In the cut-list, the numbers of pieces are also stored. The ripping process will be optimized according to required numbers of pieces and thus makes it possible to quickly work off all orders.

Furthermore, all data is entered, stored and analyzed. Thus all rippings can be precisely controlled. TimberMax supports you effectively with product and operation data entry, as you can monitor at any time, what was ripped when, in which period, at which yield.



Increase in yield up to 8% by the use of TimberMax



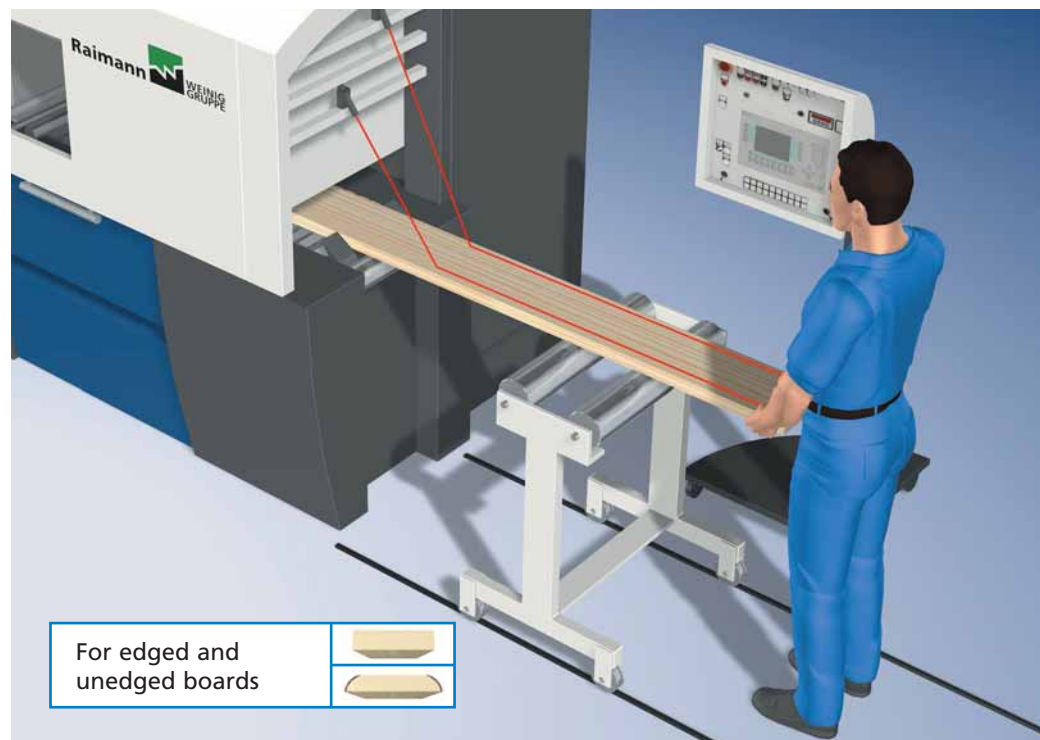
TimberMax – make profit of the advantages

- Optimized timber yield
- Transparent production
- Precise order planning
- Selective material use
- Increased productivity
- **Higher profit**

RaiMech E 1 – Roller stand

For easy infeed of the boards to the multi rip saw.

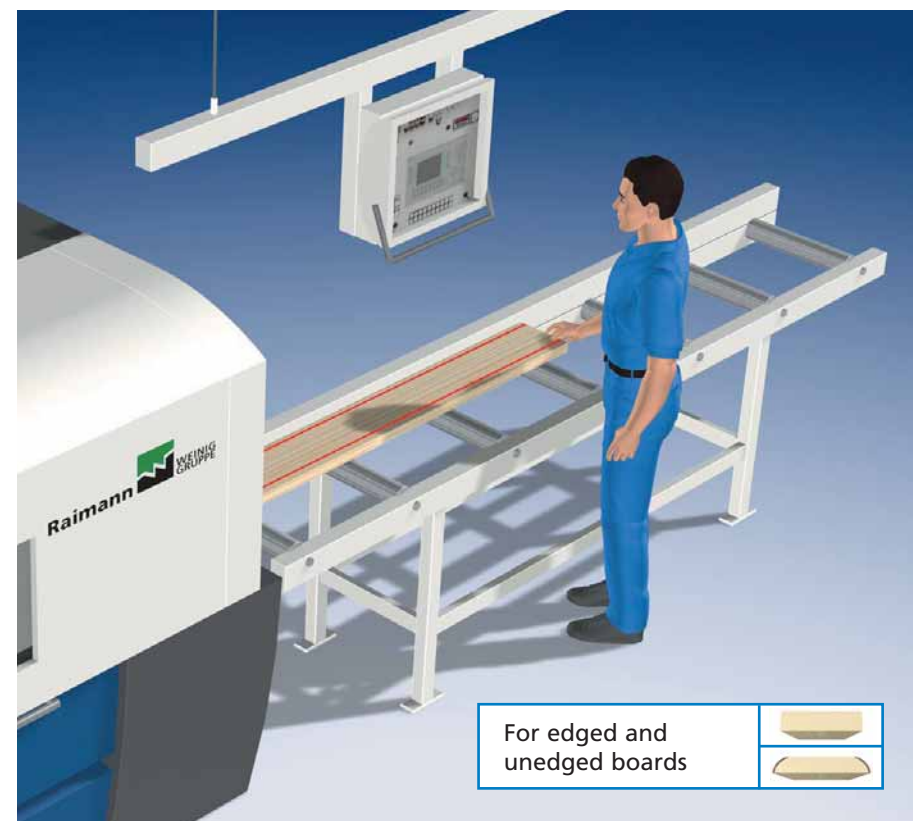
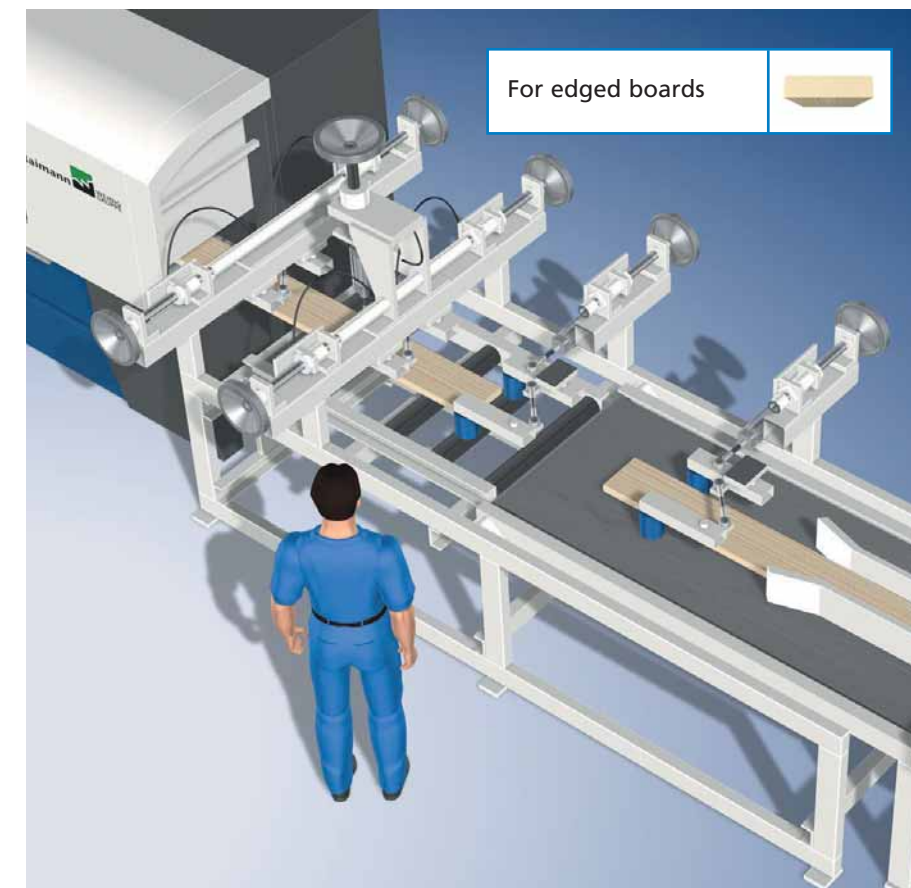
- Solid work piece support
- Relief for the operator
- Operator-friendly
- Capacity: up to 6 boards per minute



RaiMech E 3 – Board centering

Precise centered boards for fully automatic ripping systems. The boards (pre-sorted according to thickness and width) are fed into the machine on a transport belt and aligned to the saw blades via pneumatic pressure rollers at both sides of the infeed centering station.

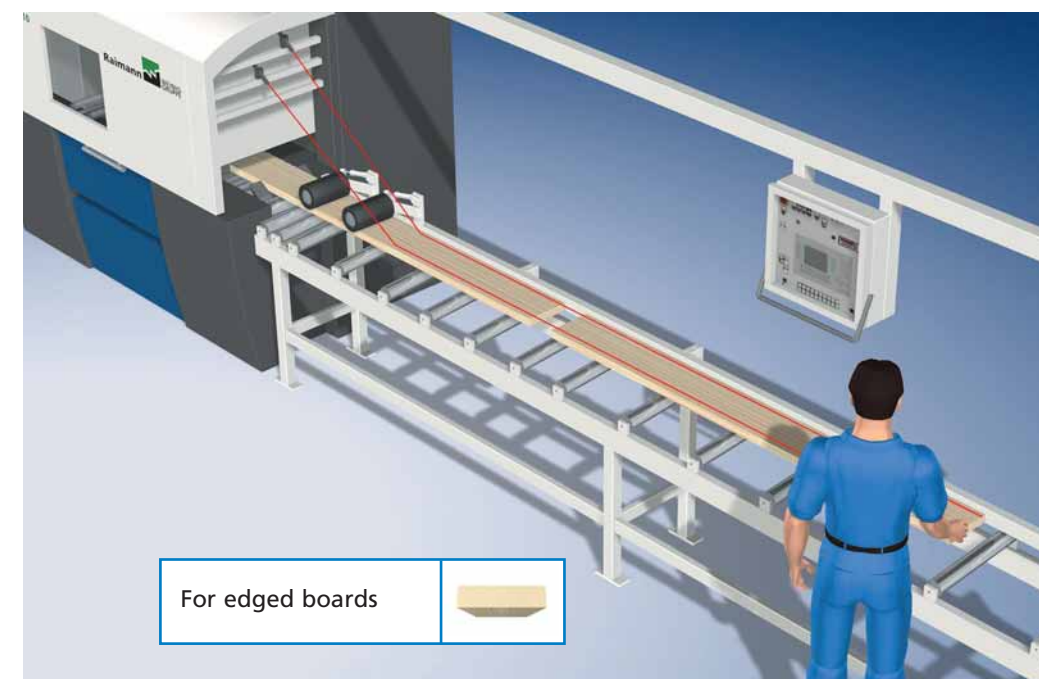
- Material saving, up to 80% less waste
- Capacity: up to 26 boards per minute, butt feeding



RaiMech E 2 – Roller conveyor

For easy infeed of the boards to the multi rip saw.

- Precise board guiding at the linear fence (with edged boards only)
- Quick infeed
- Solid work piece support
- Relief for the operator
- Operator-friendly
- Capacity: up to 6 boards per minute

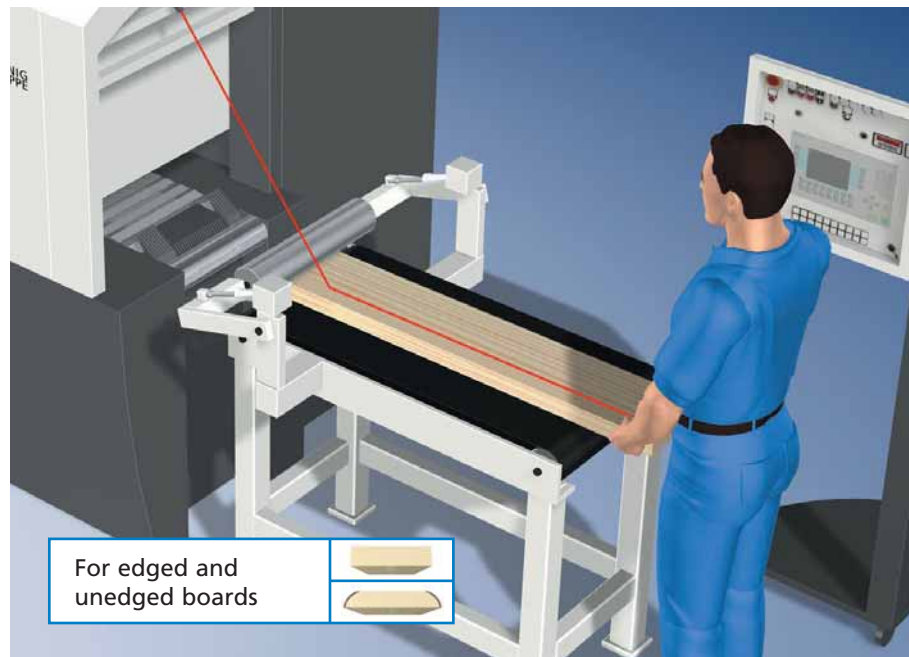


RaiMech E 4 – Canted roller conveyor with movable fence

Driven canted rollers transport the boards along the fence into the multi rip saw. Manually or automatically adjustable fence.

- Increase of performance
- Higher yield of material by precise guiding
- Automatic infeed possible by linear or lateral conveyor
- Capacity: up to 8 boards per minute

RaiMech E 5 – Conveyor belt with laser primary control



Boards are aligned on the conveyor belt according to the zero-line, by the operator. The operator marks the board width and/or quality zones using a laser light. The TimberMax software calculates the optimum width combination and positions the movable saw blades. The conveyor belt and the infeed pneumatic pinch rollers feed the boards into the multi rip saw.

- Maximum yield by use of TimberMax optimizing software
- Relief for the operator by precise and easy material feed
- Capacity: up to 6 boards per minute

For edged and unedged boards

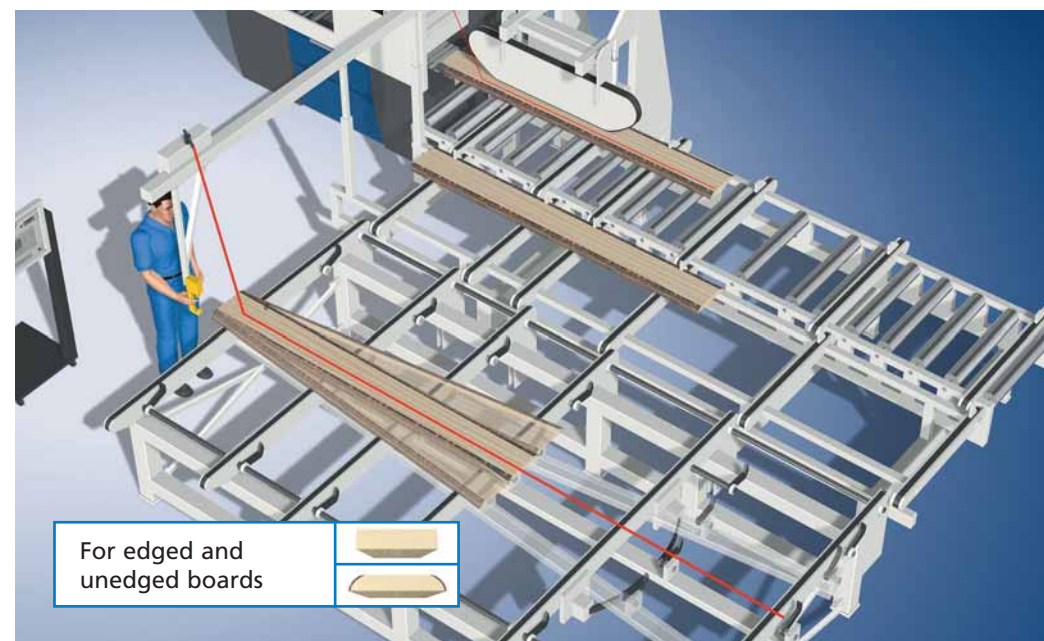


RaiMech E 6 – Board Preview

The operator aligns the boards on a zero-line at the lateral infeed. Using the movable laser your operator marks the board width and/or quality zones. TimberMax software calculates the optimum width combination and positions the movable saw blades. Precise infeed guaranteed due to the proven RaiMech board control system.

- Relief for the operator by automatic board alignment and conveying.

- Capacity: up to 10 boards per minute

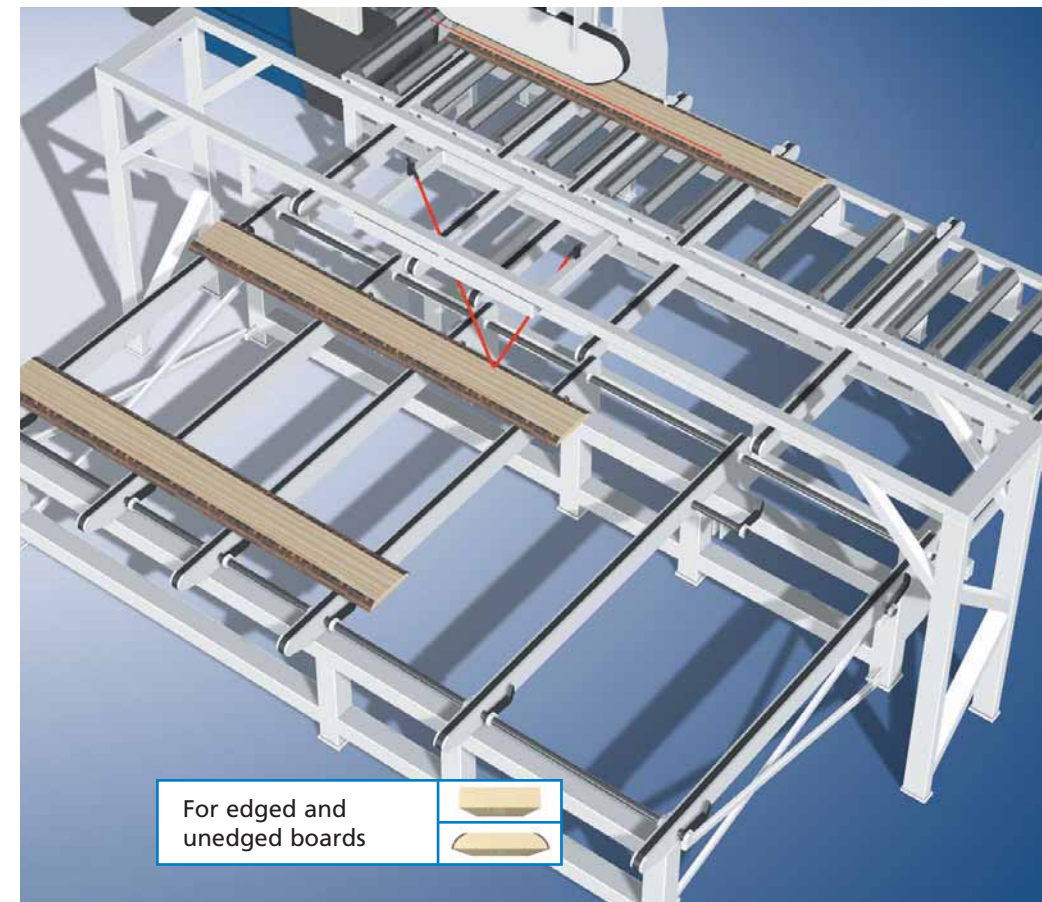


For edged and unedged boards



- Maximum yield by use of TimberMax optimizing software
- Increased performance by automatic positioning of the boards and the parallel process of board marking and automatic feeding

RaiMech E 7 – Automatic width and shape measuring















For edged and unedged boards



Lateral width and shape measuring. Depending on the measured result, i.e. according to width and shape, TimberMax calculates the optimal size combination and positions the movable saw blades. Precise infeed guaranteed due to the proven RaiMech board control system.

- Maximum performance
- Optimum board yield w/o overriding
- Automatic process
- Capacity: up to 16 boards per minute

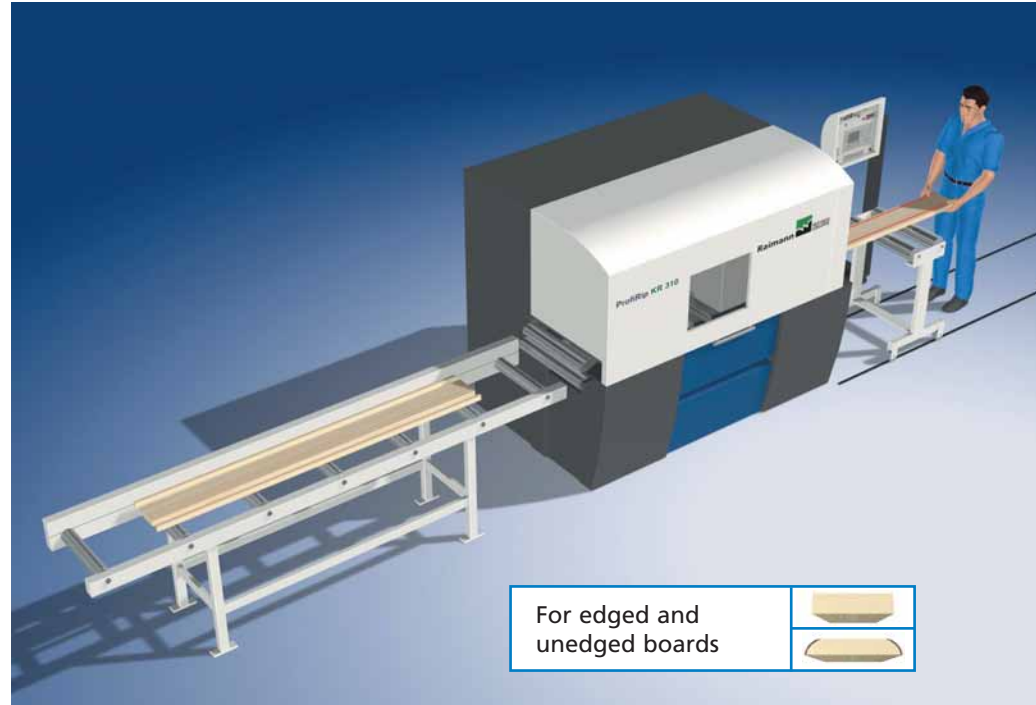
Performance data for RaiMech infeed systems

RaiMech-System	Capacity up to	Suitable for edged or unedged boards	Other advantages
RaiMech E 1 – Roller stand	6 boards per minute	 	Operator-friendly
RaiMech E 2 – Roller conveyor	6 boards per minute	 	Operator-friendly; modular for other RaiMech equipment
RaiMech E 3 – Board centering	26 boards per minute, stack on stack		Material saving
RaiMech E 4 – Linear Infeed with canted rollers and fence	8 boards per minute		Increase of quality; material saving
RaiMech E 5 – Linear Infeed with belt and independent laser control	6 boards per minute	 	Optimum timber yield
RaiMech E 6 – Pre-visualization of boards	10 boards per minute	 	Increase of performance; optimum timber yield; operator-friendly
RaiMech E 7 – Automatic width and shape measuring	16 boards per minute	 	Increase of performance, optimum timber yield

RaiMech A 1 – Roller conveyor

At the outfeed side of the multi rip saw the processed boards are delivered onto a roller conveyor (optionally driven)

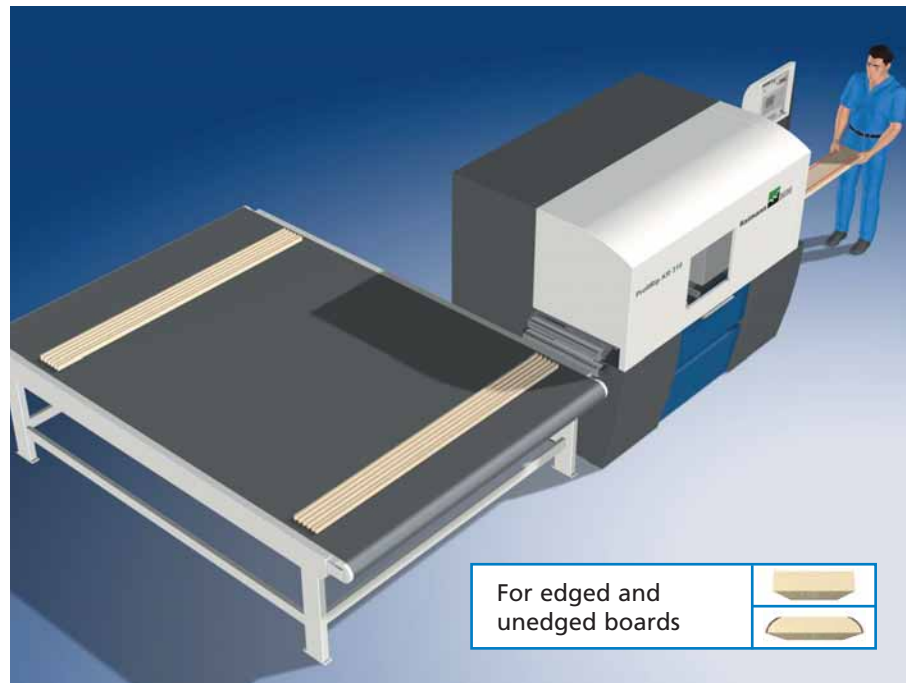
- Solid work piece support
- Possibility of connection to the subsequent stations
- Operator-friendly
- Capacity: up to 3 boards per minute (1 operator for sorting)



RaiMech A 2 – Sorting conveyor

The processed boards are cross-conveyed strokewise at the outfeed side of the multi rip saw.

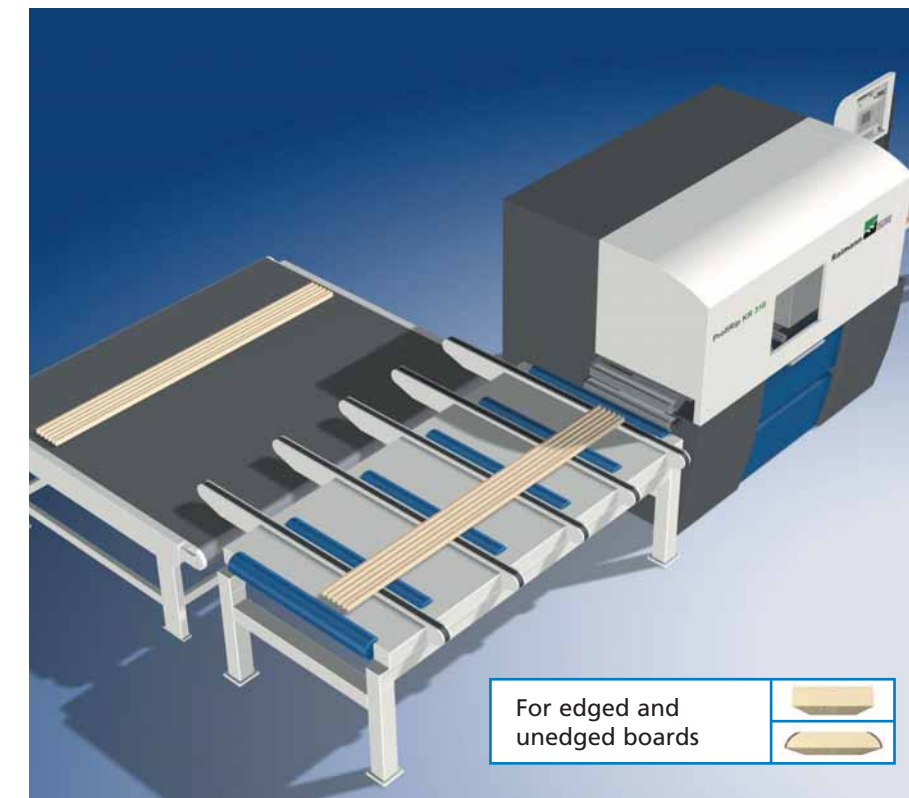
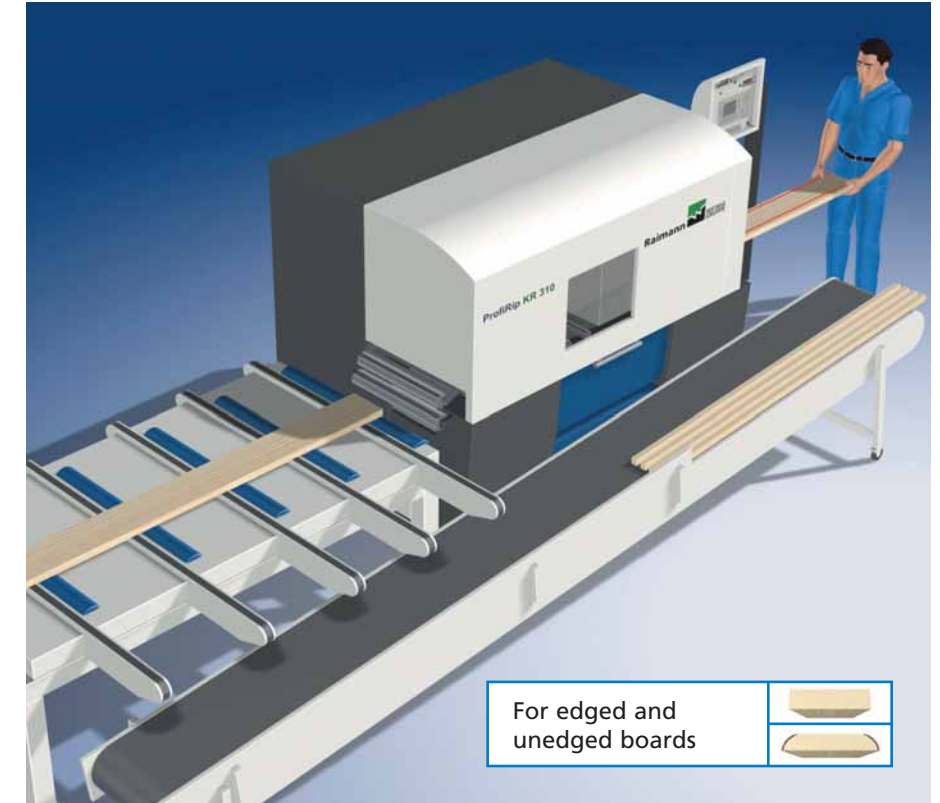
- Increased flexibility due to buffer effect of the sorting conveyor
- Higher performance, as waste pieces do not have to be sorted out
- Possibility of connection to the subsequent process stations
- Capacity: up to 5 boards per minute (1 operator for sorting)



RaiMech A 3 – Outfeed cross conveyor with return conveyor

At the outfeed side of the multi rip saw the processed boards are delivered onto a roller conveyor (optionally driven). Cross chains with cams are transporting all the material to the return conveyor.

- 1-man ripping operation
- Capacity: up to 2 boards per minute



RaiMech A 4 – Outfeed cross conveyor with sorting conveyor

Outfeed rollers (optionally driven) transport the material out of the multi rip saw. Cross chains with cams are feeding the material onto a lateral cross chain (sorting).

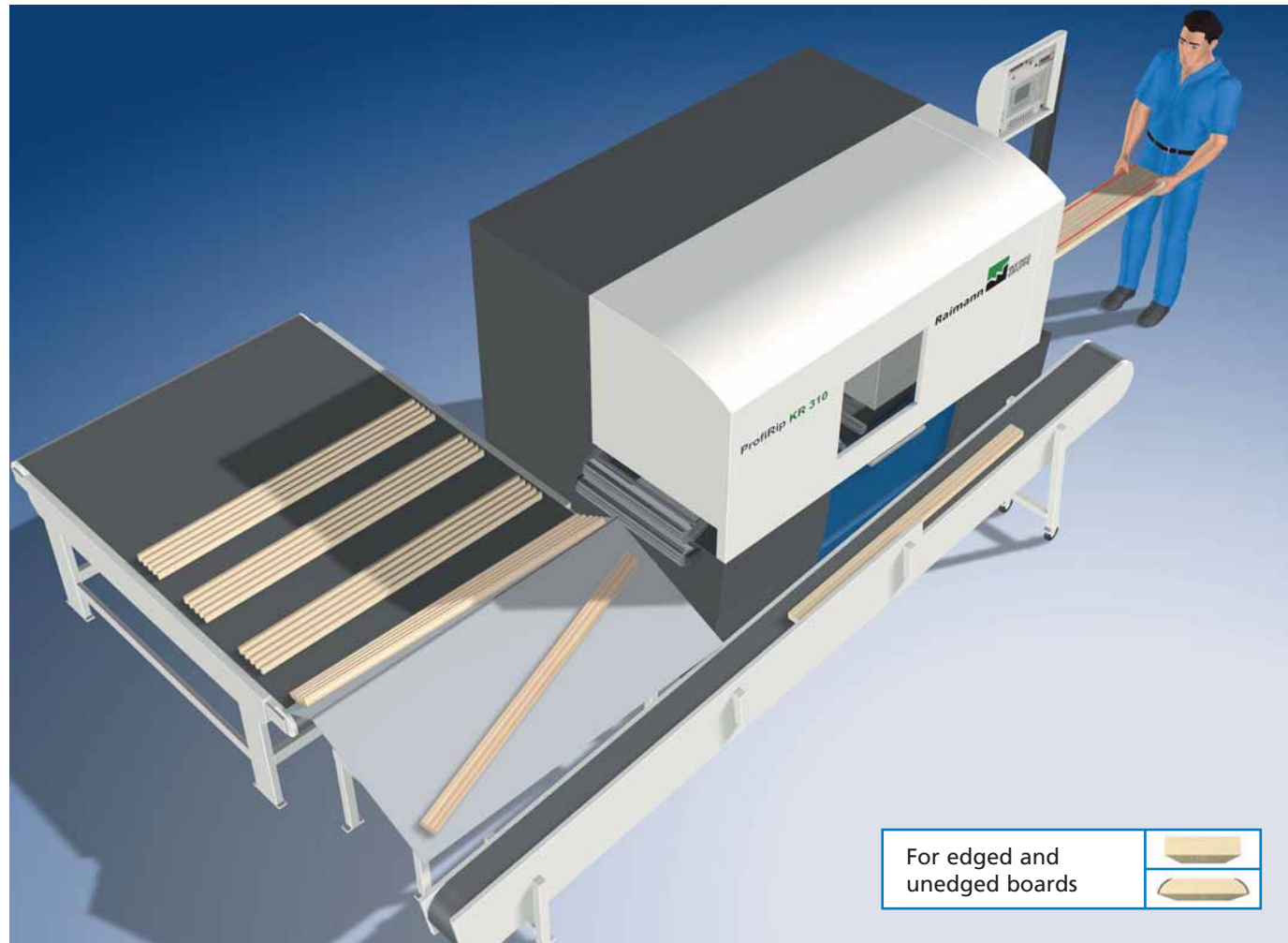
- Increased flexibility due to buffer effect of the sorting conveyor
- Higher performance
- Possibility of connection to subsequent processes
- Capacity: up to 15 boards per minute (2 - 3 operators for sorting)

RaiMech A 5 – Outfeed separating device (Butterfly Table) with return conveyor and sorting conveyor for shorter workpieces

Butterfly Table. The ripped-to-size strips are conveyed to the right hand side, the rest piece is conveyed to the left and will be returned via belt to the infeed side of the rip saw. The ripped-to-size pieces are sliding onto a cross conveyor for subsequent sorting.

- Increased flexibility due to buffer effect of the sorting conveyor
- Automatic return of the rest piece, in case of wide boards
- Possibility of several-fold ripping and optimizing of the boards
- Capacity: up to 4 boards per minute

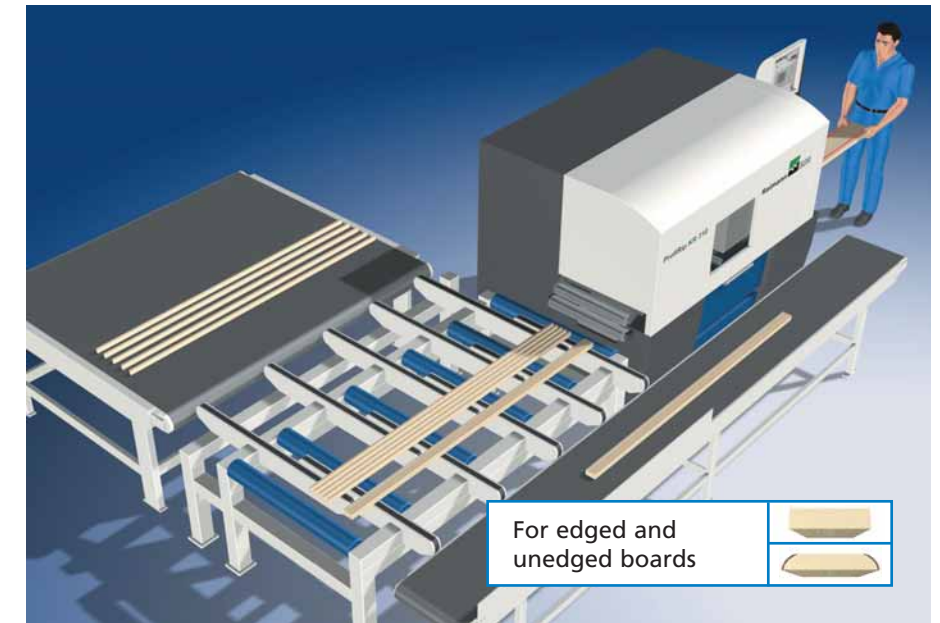
At the outfeed side of the multi rip saw the boards are separated on a 2-piece



RaiMech A 6 - Outfeed separating conveyor left/right with return conveyor and sorting conveyor

After the rip saw the processed boards are transferred on a roller conveyor (optionally driven). Cross chains are separating the ripped-to-size strips to the right hand side (including waste) and the material for re-ripping to the left hand side. The re-ripping pieces are transported back to the infeed side of the ProfiRip using a driven roller or belt conveyor. The ripped-to-size strips and the right hand side edge are transferred onto a sorting conveyor.

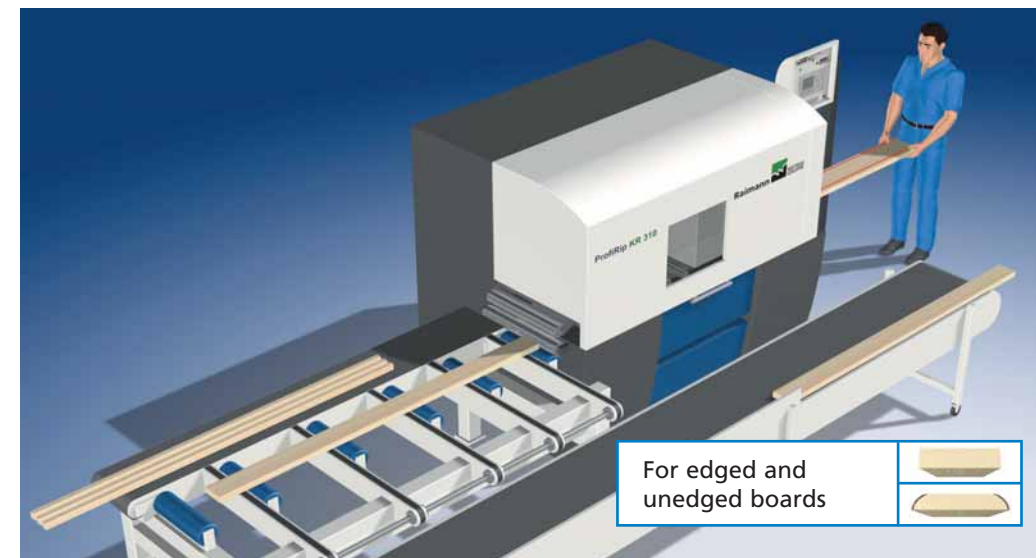
- Higher flexibility due to buffer effect of the sorting conveyor
- For wide boards or short cut-lists: automatic return of the piece for re-ripping
- Possibility of multistage ripping and optimizing
- Higher performance
- Capacity: up to 6 boards per minute



RaiMech A 7 – Outfeed separating conveyor left/straight ahead with return conveyor

After the rip saw the processed boards are transferred on a transport belt. Cross chains are separating in accordance to the movable blades ripped-to-size pieces from re-ripping pieces. The ripped-to-size pieces (including right hand side edge) are transported straight ahead, re-ripping pieces are transported automatically back to the operator.

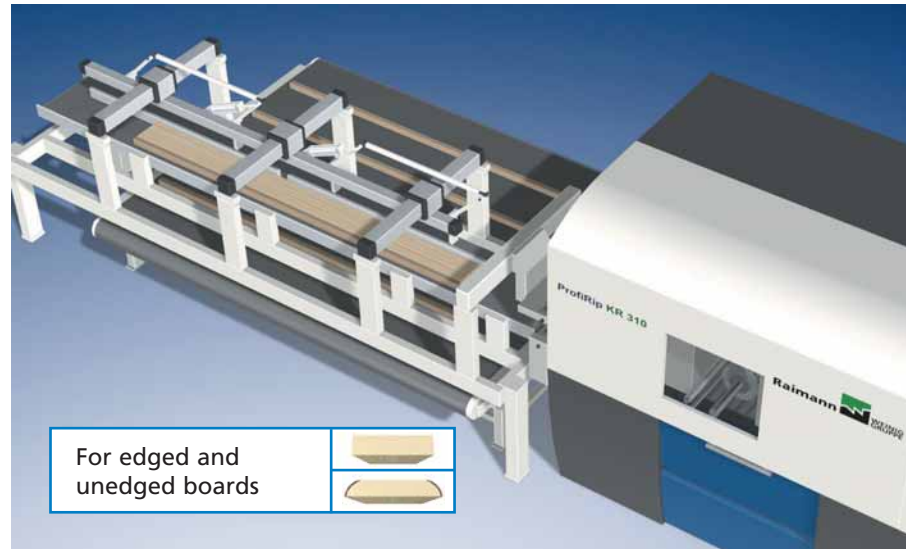
- For wide boards: automatic return of the piece for re-ripping
- Possibility of multistage ripping and optimizing
- High performance
- Capacity: up to 6 boards per minute



RaiMech A 8 – Splinter and edging Separator / automatic waste disposal

















Removes the waste of the ripped-to-size boards. After the rip saw the processed boards are taken over by a conveyor belt. Waste on the right side falls down beside the conveyor immediately at the outfeed of the rip saw. The left hand waste is separated via a precise movement of the whole ripped package to the left hand side of the conveyor, therefore separating the left hand waste.

- Automatic and reliable procedure
- High performance
- Continuous procedure
- Capacity: up to 16 boards per minute



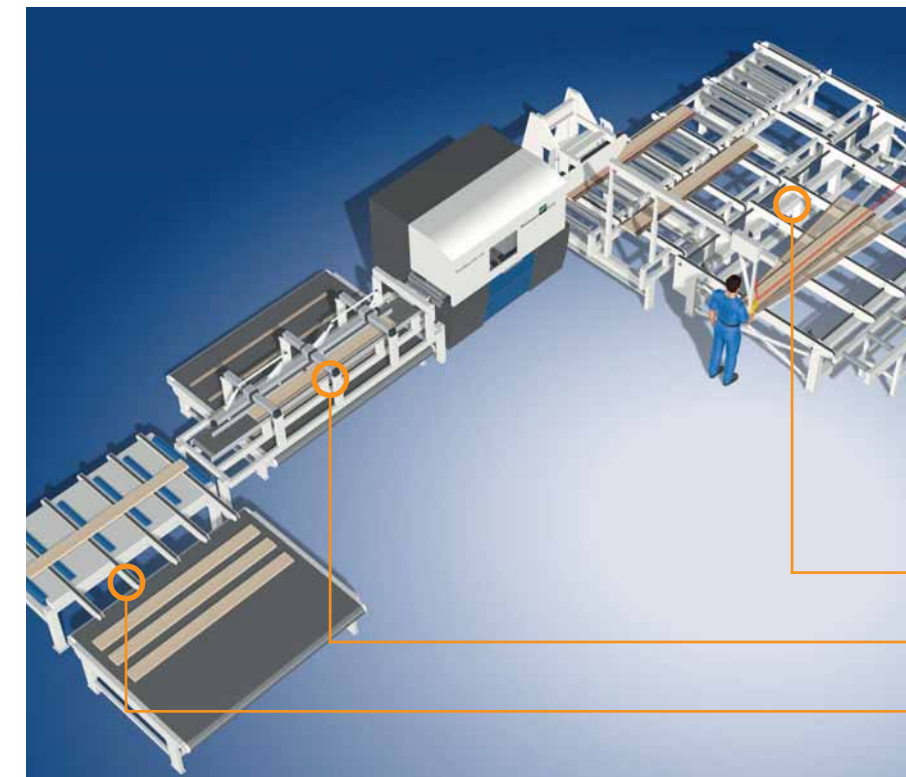
For edged and unedged boards


Performance data for RaiMech outfeed systems

RaiMech-System	Capacity up to	For edged or unedged boards	Other advantages
RaiMech A 1 – Roller conveyor	3 boards per minute	 	operator-friendly; modular
RaiMech A 2 – Sorting conveyor	5 boards per minute	 	operator-friendly; modular; higher performance
RaiMech A 3 – Outfeed cross-conveyor with return conveyor	2 boards per minute	 	one-man-operation
RaiMech A 4 – Outfeed cross-conveyor with lateral sorting conveyor	15 boards per minute	 	high performance
RaiMech A 5 – Outfeed separating device (Butterfly Table) with return conveyor and sorting conveyor	4 boards per minute	 	possibility of multistage ripping and optimizing
RaiMech A 6 – Outfeed separating conveyor left/right with return conveyor and sorting conveyor	6 boards per minute	 	possibility of multistage ripping and optimizing; high performance
RaiMech A 7 – Outfeed separating conveyor left/straight ahead with return conveyor	6 boards per minute	 	possibility of multistage ripping and optimizing; high performance
RaiMech A 8 – Splinter and edging separator / automatic waste disposal	16 boards per minute	 	high performance; continuous procedure

We reserve the right to make technical changes. Statements and pictures in this brochure may contain items which are not included in the standard scope of supply. The use of optional equipment may influence the technical data. Some protective covers have been removed for photographing.

Example 1



- Processing of edged and unedged raw material 
- Board measuring with movable laser
- Board alignment with joystick
- Optimization of timber yield considering timber quality
- Capacity: up to 10 boards per minute


RaiMech E 6

RaiMech A 8

RaiMech A 4

Example 2



- Processing of edged raw material 
- Automatic board measuring
- Optimization based on width, price and order list
- Capacity: up to 16 boards per minute

RaiMech A 8

RaiMech E 7