

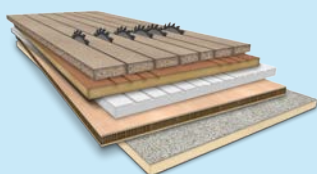
■ made
■ in
■ Germany

Paul
Maschinenfabrik GmbH & Co. KG

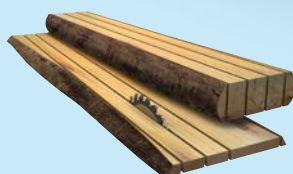
Cross-Cut Systems Series C11



PANEL RIPPING



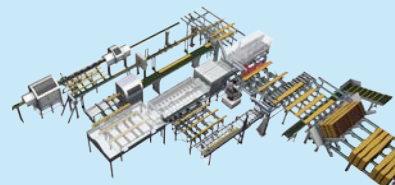
SOLID WOOD RIPPING



OPTIMIZED CROSS-CUTTING



SYSTEM SOLUTIONS



sawtec.paul.eu

Universal and compact

A POWERFUL CROSS-CUT SAW FOR ALL THOSE WHO SET A HIGH VALUE ON AN EXCELLENT PRICE-PERFORMANCE RATIO AND A WIDE RANGE OF APPLICATION POSSIBILITIES.

The C11 is designed for cutting small to medium-sized timber sections and ensures an accurate and clean cut at very high throughput rates. The compact machine is designed for a long service life and can be expanded by modular upgrades into a high-performance system with automatic defect detection and powerful handling components.

To increase the working speed, the performance data as well as workpiece feed and removal have been improved.

Whether in sawmilling, parquetry, flooring, crate or furniture production, a multitude of extensions and options make the C11 exactly the machine that meets your requirements to the letter.



Paul kick out (Option)

Accelerates the workpieces out of the machine directly after cutting and increases the output by up to 20 percent.



Heavy-duty, hard-chrome plated, large diameter feed rollers to maximize process reliability.



Convenient LED interior lighting, also serving as a status indicator.



Paul saw stroke

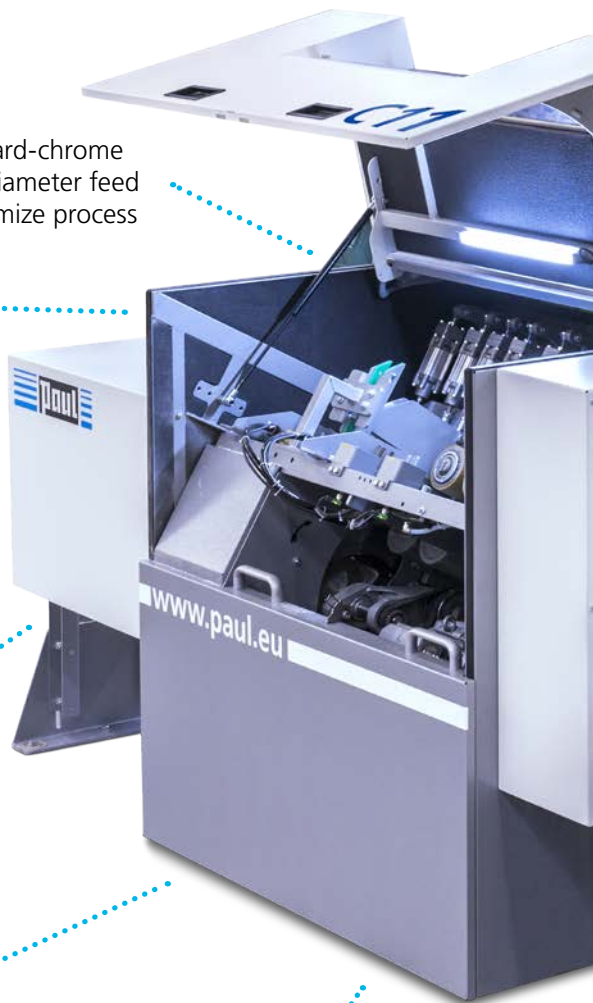
Highest cutting speed, twice as fast as a human blink of an eye.



Inclined working plane: Perfect workpiece guidance, squareness of the cuts and optimized disposal of residual pieces without side pressure unit, mixed workpiece widths without the need for retooling.



Controlled clamping device made of metal composite with integrated dust extraction.



*keine raketentechnik,
aber raketengeschwindigkeit*

*no rocket science,
but rocket speed*



Paul turbo blower

Aerodynamically optimized blowers for the efficient and reliable disposal of residual timber pieces.



Top rollers that are electrically adjustable to the board thickness (option).



Paul gap close (Option)

Minimizes the distances between incoming workpieces and increases output by up to 20 percent.



Excellent sound insulation for maximum working safety.



Solid machine stand for maximum stability and vibration damping.



C11 at YouTube

Exactly what you need

VARIOUS VERSIONS FORM THE BASIS OF THE C11 SERIES, WHICH CAN BE EXPANDED TO A FULLY AUTOMATIC PROCESS LINE WITH SCANNER-SUPPORTED DETECTION OF TIMBER CHARACTERISTICS, DEPENDING ON REQUIREMENTS.

The entry-level version **C11_E** saws workpieces to the desired fixed lengths. The machine does not take into account timber characteristics and quality zones.

The **C11_KE** version uses an additional luminescence scanner to detect crayon lines which are used by an operator to mark timber features or to select cutting lists by means of a barcode.

The **C11_MKL** is fitted with a separate measuring station that precisely detects workpiece length and manually marked features before the cutting

process and calculates the optimum cutting result using stored cutting lists. The quality-overlapping value optimization maximizes added value and timber yield.

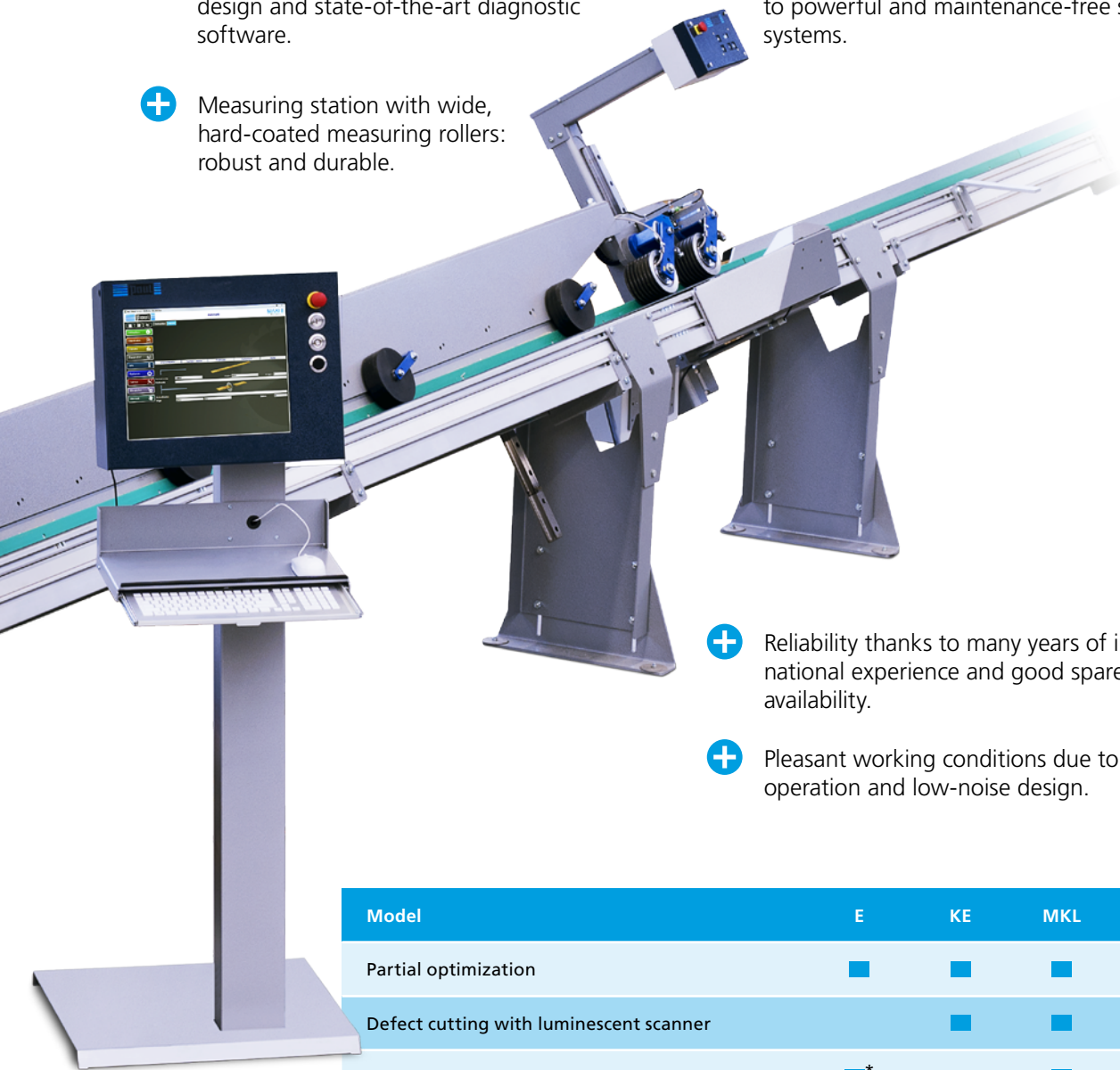
In combination with fully automatic error detection, the **C11_SCAN** offers the maximum in production and convenience.



leistung an den
grenzen der physik

performance
at the physical limits

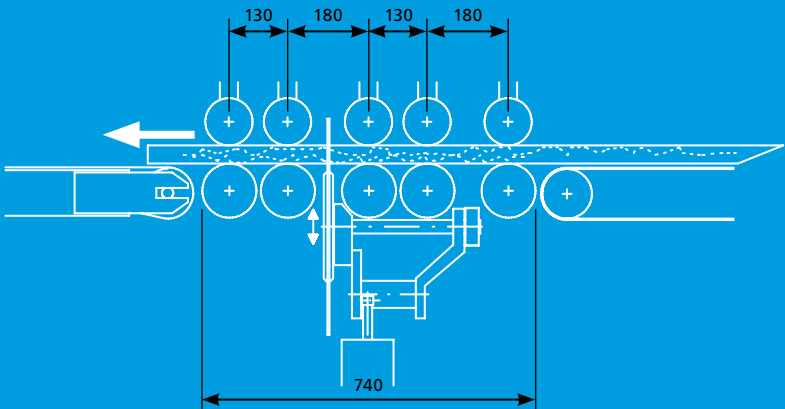
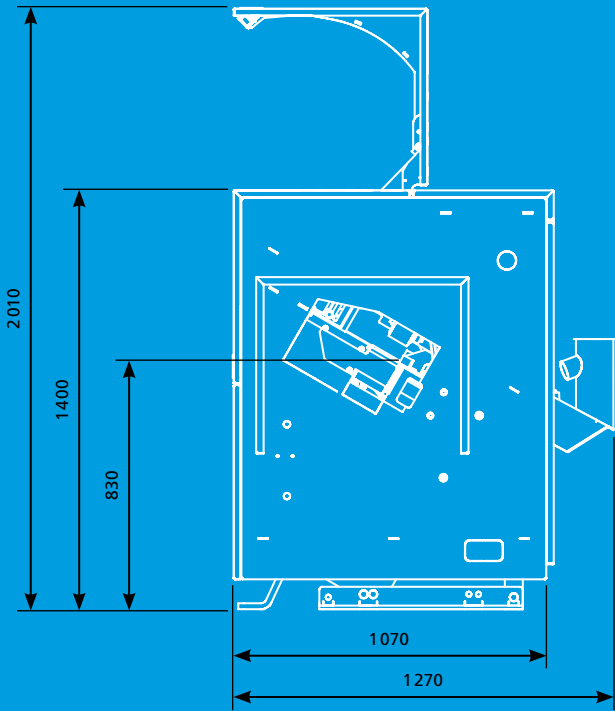
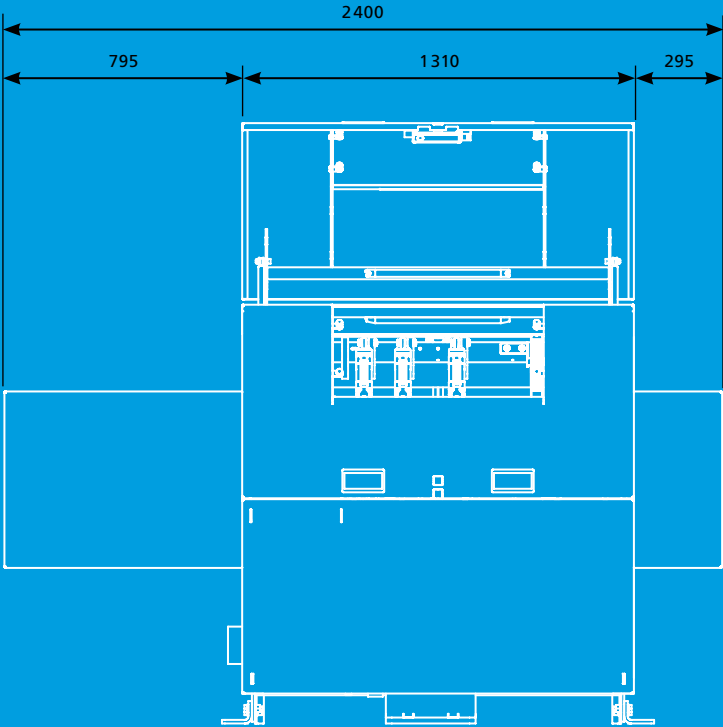
- + Durability and stability thanks to an elaborate design and generous dimensioning of the components.
- + Ease of maintenance thanks to a clear design and state-of-the-art diagnostic software.
- + Measuring station with wide, hard-coated measuring rollers: robust and durable.
- + Maximum added value due to customized optimization algorithms in up to eight qualities.
- + Dynamics and high continuous duty due to powerful and maintenance-free servo systems.



- + Reliability thanks to many years of international experience and good spare parts availability.
- + Pleasant working conditions due to intuitive operation and low-noise design.

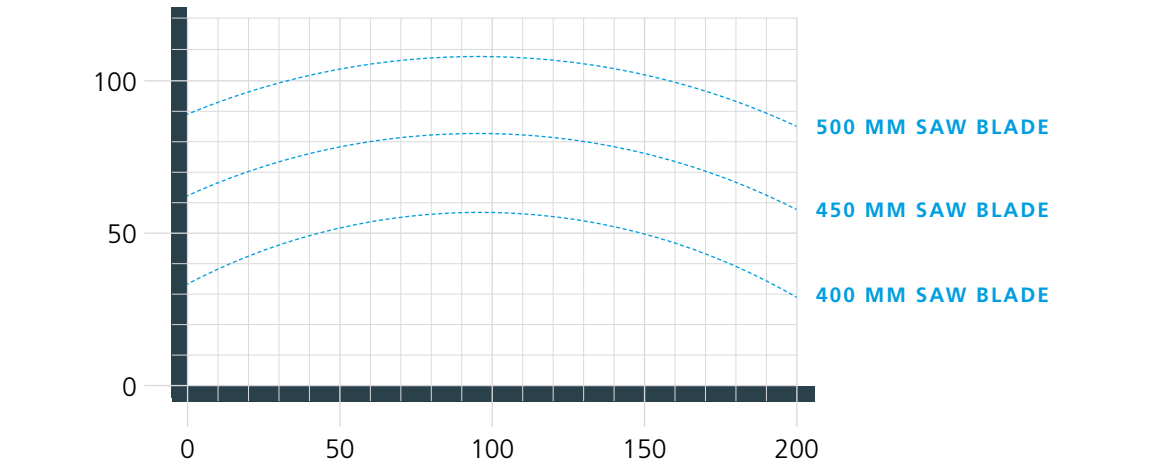
Model	E	KE	MKL	SCAN
Partial optimization	■	■	■	■
Defect cutting with luminescent scanner		■	■	■
Full optimization	■*		■	■
Measuring station for quality and value optimization			■	■
Scanner for automatic detection of defects				■

* Infeed length identification feature available as an option



Technical data

CUTTING DIAGRAM



WORKPIECE DATA

Cutting height	[mm]	3 - 89
Opening width	[mm]	30 - 200
Min. workpiece length	[mm]	300 with manual feed 1300 with automatic feed
Timber cross section	[mm]	see cutting diagram
Min. cut length (board end)	[mm]	130 (180)

MACHINE DATA

Driving power	[kW]	5.5
Max. feed speed	[m/min]	400
Saw blade diameter	[mm]	400/450/500
Speed of saw blade (ø400/450/500)	[Rpm]	5300/4800/4300
Powered bottom rollers		5
Rubber-coated top rollers		5
Sound pressure level*	At no load / in operation	[dB(A)] 78/79
Sound power level*	At no load / in operation	[dB(A)] 99/101
Dust outlet diameter	[mm]	2 x 125
Dust extraction requirement	[m³/h]	2600
Weight	[kg]	1200

* with Ø 500 mm saw blade

Accessories and options

FEED

- Hard-chrome plated feed rollers with different surfaces, fluted, with soft grip or semi-smooth, depending on requirements

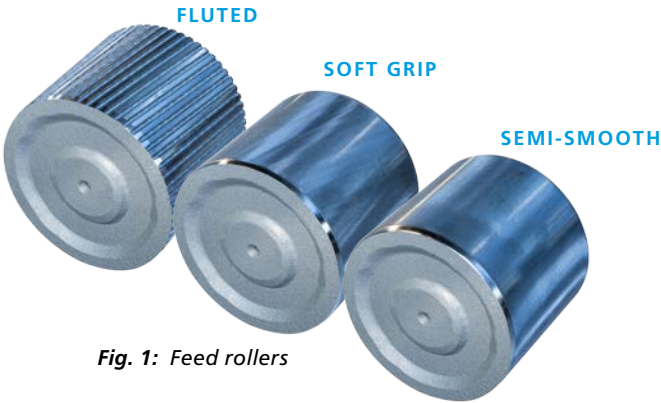


Fig. 1: Feed rollers

STACKING AND DESTACKING

- Automatic vacuum destacking system
- Automated handling and buffer feeding systems
- Distribution systems to several cross-cut stations
- Auto stackers
- Articulated arm robot for stacking and destacking

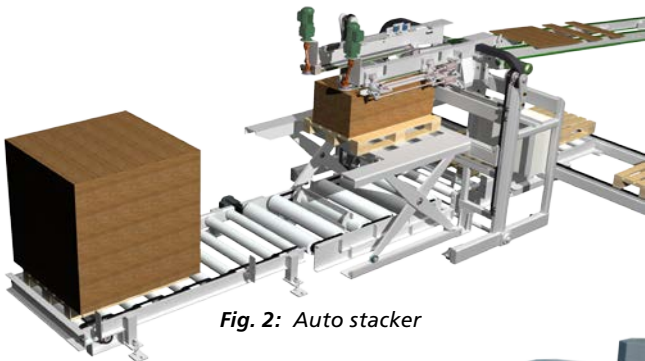


Fig. 2: Auto stacker

SORTING

- Ejecting to one side only using pneumatic ejectors
- Compact cross-belt sorting for limited floor space
- Wide pneumatic ejectors made of composite material with protective housing, for maximum performance and durability with minimum weight



Fig. 3: Pneumatic ejectors

MEASURING AND MARKING

- Scanner
- Marking systems
- Ink-jet printer for letter or color code printing on top or bottom face and end face
- Optical length correction for accurate cutting of long workpieces
- Width and thickness measurement with triangulation measuring system



Fig. 4: Paul Wood Scanning System

*eine maschine,
zahllose möglichkeiten*

*one machine,
countless possibilities*

PROCESS MANAGEMENT

The PALETTI software offers you the possibility of managing your cutting orders even more efficiently. The simple data exchange between machine, office and warehouse enables the optimization of the material yield across all orders. Different assignment options and the high level of user-friendliness allow precise adaptation to your workflow.

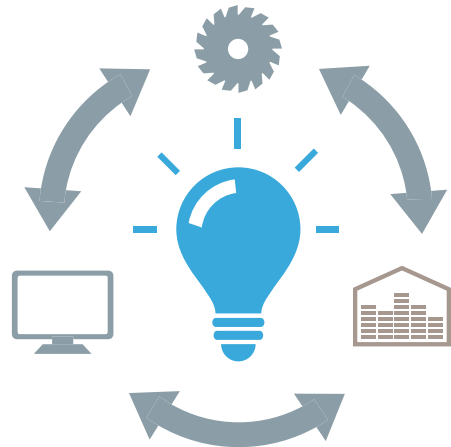


Fig. 5: MAXI control Operator terminal with touch panel, keyboard and mouse



CONTROL SYSTEMS

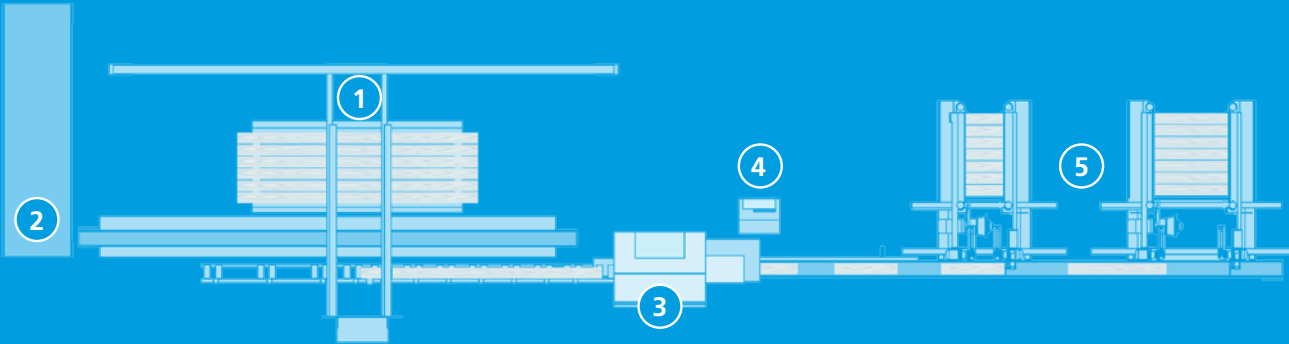
Sustainability is rooted in our DNA

The optimization algorithms for the maximum yield of the valuable raw material wood have been continuously developed and adapted to the practical needs of our customers for decades.

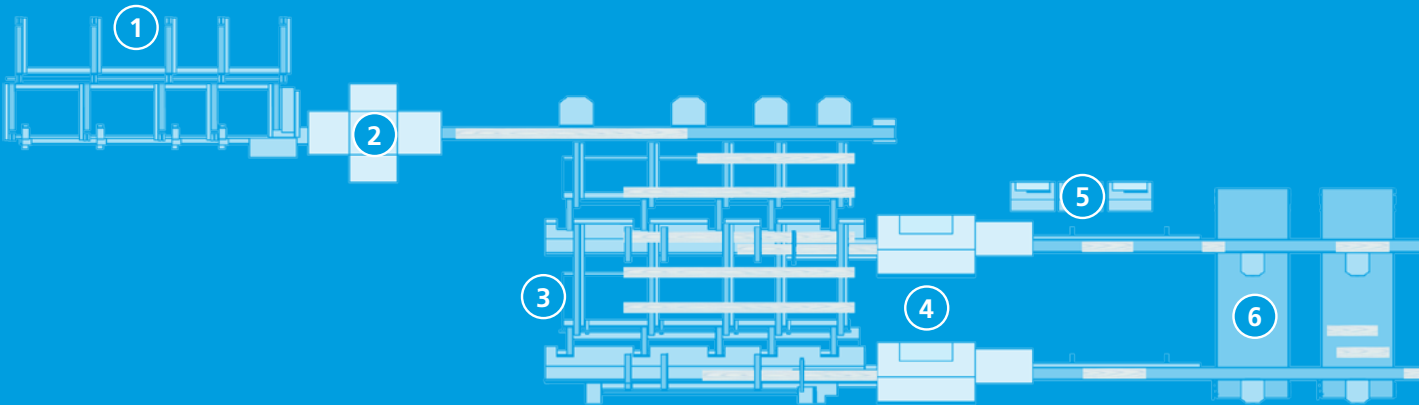
- Programming of preset lengths
- Length optimization (in conjunction with length measurement)
- Diagnostic software
- Network capability
- Remote maintenance
- Yield statistics
- Scanner connection (option)
- Robust housing for heavy-duty use in sawmilling
- Operating terminal freely positionable
- Further options

*effiziente systeme für
effiziente anwendungen*

efficient systems for efficient applications



- 1 Automatic vacuum destacking system
- 2 Stick removal
- 3 Cross-cut station C11
- 4 Operating terminal for cross-cut station and automated handling
- 5 Stacking with two auto stackers



- 1 Multi-strand cross conveyor for buffering
- 2 Scanner (e.g. PAUL Wood Scanning System)
- 3 Distribution system to two cross-cut stations
- 4 Two cross-cut stations C11
- 5 Operating terminals for cross-cut stations and automated handling
- 6 Length sorting system with ejectors and cross belt conveyors

C11 in a system

AS A SYSTEM COMPONENT, THE C11 IS A CROSS-CUT SYSTEM WITH LOW SPACE REQUIREMENTS AND HIGH PERFORMANCE.



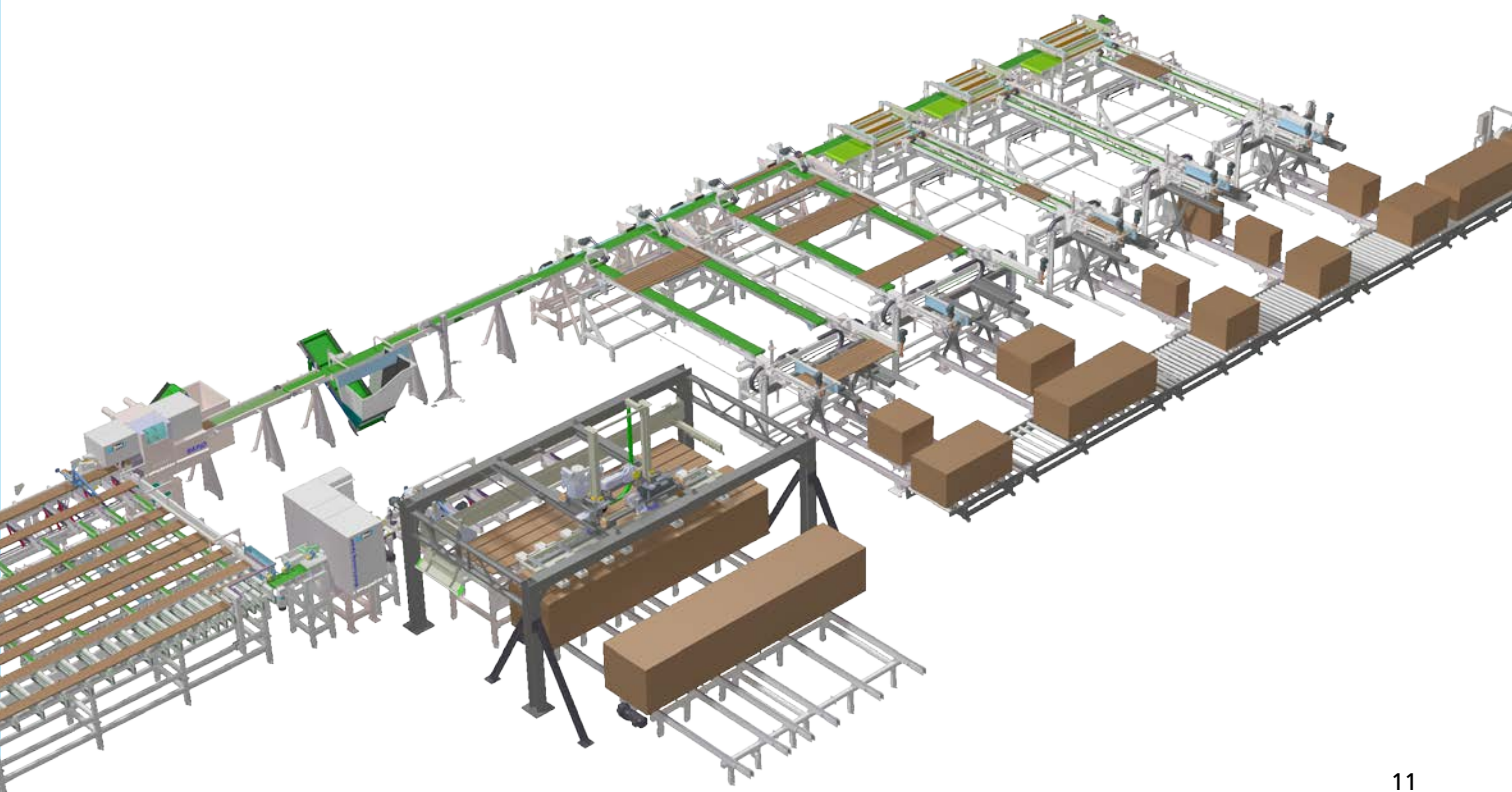
Fig. 6: Articulated arm robot



Fig. 7: Transfer system

In combination with rip-saws and numerous other system components, the C11 becomes an integral part of high-performance automatically linked timber processing lines.

Processing lines tailored precisely to your requirements ensure the necessary efficiency and the desired degree of automation - from destacking, measuring and sorting to palletizing.



Strong Partner



A GOOD DECISION

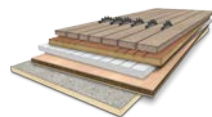
Since 1925, Paul has slowly, yet steadily developed to become one of the leading manufacturers of woodworking machinery.

We manufacture high-quality machinery at three sites in Southern Germany which we export all around the world.

- + tradition and experience since 1925
- + competent contacts
- + worldwide services
- + competent phone support
- + high quality and reliability
- + operator convenience

PANEL RIPPING

Efficient and versatile machines for panel ripping enable our customers to find finely coordinated solutions for any demand.



SOLID WOOD RIPPING

Long-lasting and robust machines for the use in rough sawmill and industrial wood processing environments. Several product lines featuring a variety of options offer a suitable machine for each application.



OPTIMIZED CROSS-CUTTING

High-quality and powerful cross-cut systems featuring an extensive range of options and accessories offer custom-fit solutions meeting the customers' demands with regard to budget, cutting performance and cutting quality.




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as further information at



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