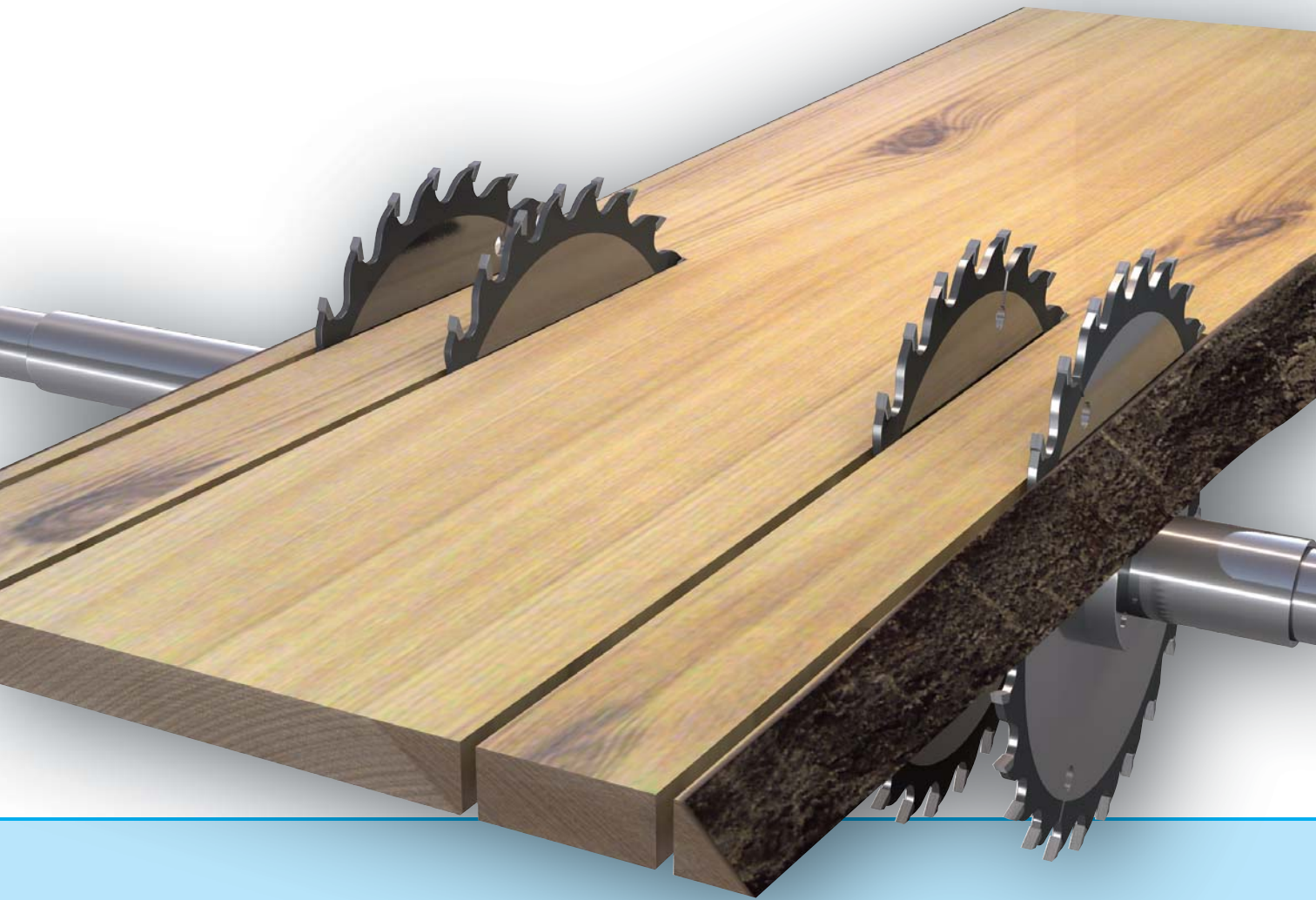
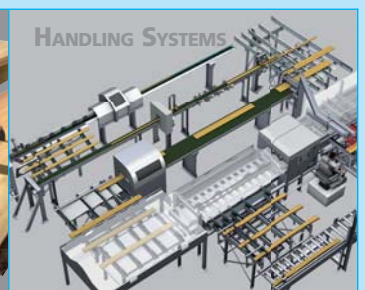
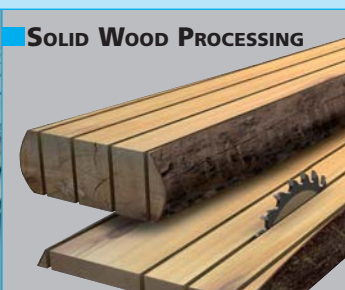
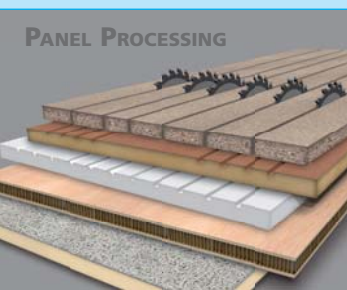


■ made
■ in
■ Germany

Paul
Maschinenfabrik GmbH & Co. KG

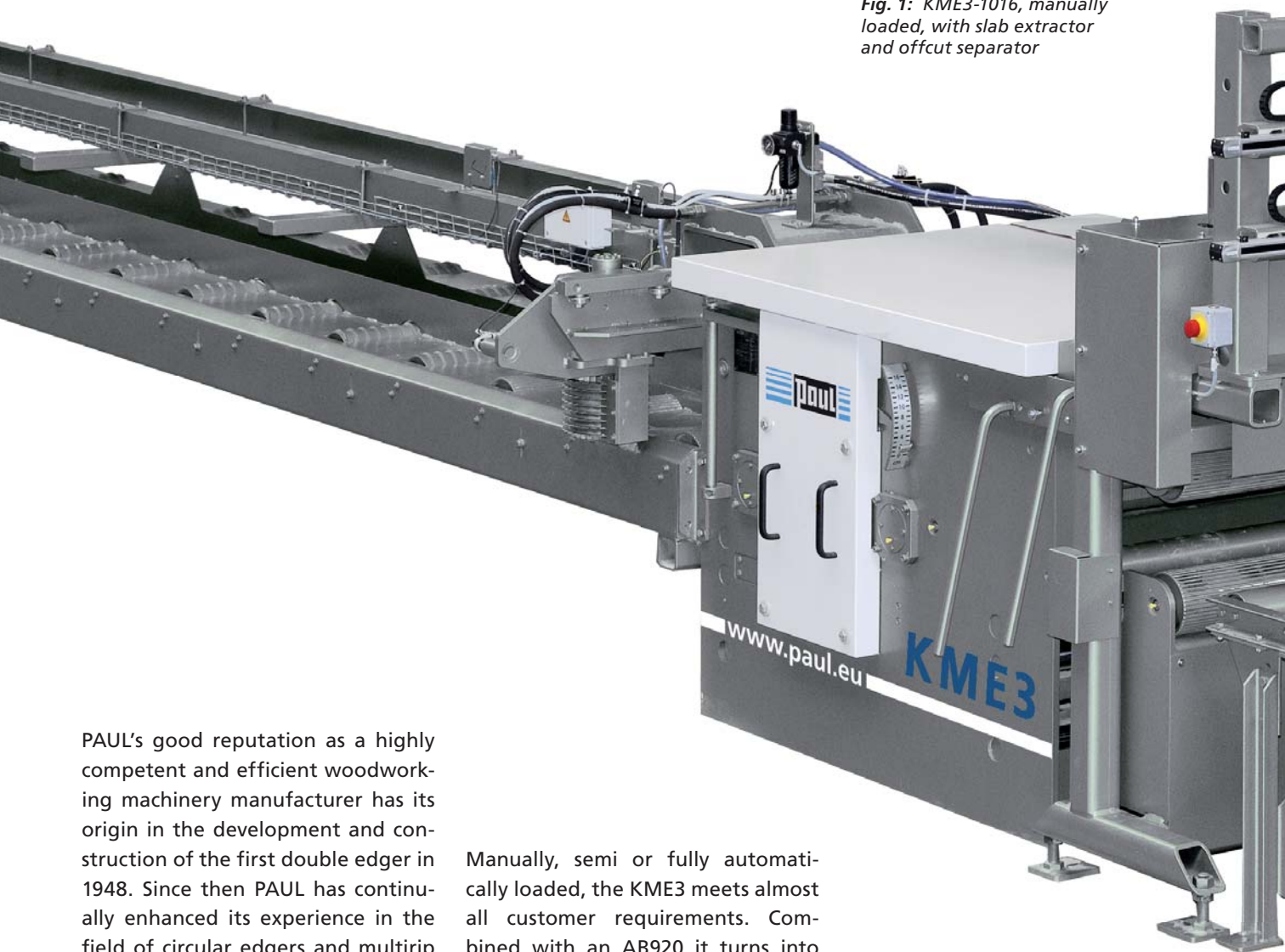


Circular Edgers/Ripsaws Series KME3



PROVEN TECHNOLOGY

Fig. 1: KME3-1016, manually loaded, with slab extractor and offcut separator



PAUL's good reputation as a highly competent and efficient woodworking machinery manufacturer has its origin in the development and construction of the first double edger in 1948. Since then PAUL has continually enhanced its experience in the field of circular edgers and multirip saws.

Drive motors up to 90 kW provide the KME3 with the necessary power to process workpieces up to 160 mm in thickness and 950 mm in width. With up to four independently moving saw bushes and two independently moving splitting wedges the KME3 ensures greatest flexibility.

Manually, semi or fully automatically loaded, the KME3 meets almost all customer requirements. Combined with an AB920 it turns into an automatic edging and multiripping system for maximum yield optimization.

By integrating further handling components PAUL offers intelligent system solutions and complete production lines to the solid wood processing and sawmilling industries.



Fig. 2: KME3-1016, manually loaded, operating in a sawmill

RIPPING PATTERNS

- Fixed saw bush
- Movable saw bush

The KME3 can be equipped with a fixed or a movable saw blade configuration with up to four independently moving saw bushes.

On the fixed saw configuration the saw blades can be spaced at virtually any intervals on a long saw bush by using spacer rings.

On the movable saw configuration the outer movable saw bush and the fixed (zero line) saw bush are fitted with a variable number of saw blades depending on the application and usable clamping length concerned. With an optional shifting device the fixed saw bush can be moved either out of the working area or inwards aligning a different saw on the fixed saw bush with the splitting wedge. The movable saw bush is positioned by a servomotor. Line lasers (option) are provided to indicate the saw blade positions on the workpiece.

In addition, the KME3 can be equipped with up to 3 movable single-saw bushes. The maximum saw bush spacings are mainly dependent on the usable saw bush clamping lengths and on the machine width.

The illustrations and tables shown are examples only. The PAUL team will be pleased to compile your specific saw bush configuration.

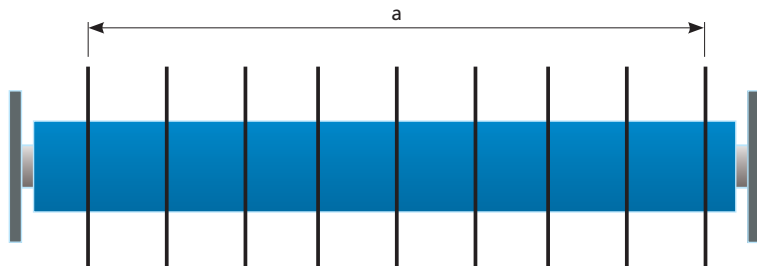


Fig. 3: Fixed saw configuration on a long saw bush

	KME3-812/KME3-816	KME3-1012/KME3-1016
Usable clamping length a (max.)	600 mm	810 mm

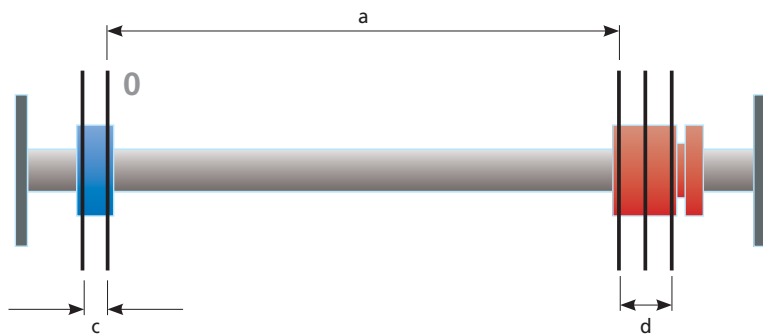


Fig. 4: Movable saw configuration with one fixed and one movable saw bush

	KME3-812/KME3-816	KME3-1012/KME3-1016
Moving range a	24 - 455 mm	24 - 605 mm
Usable clamping length c	60 mm	60 mm
Usable clamping length d	120 mm	120 mm

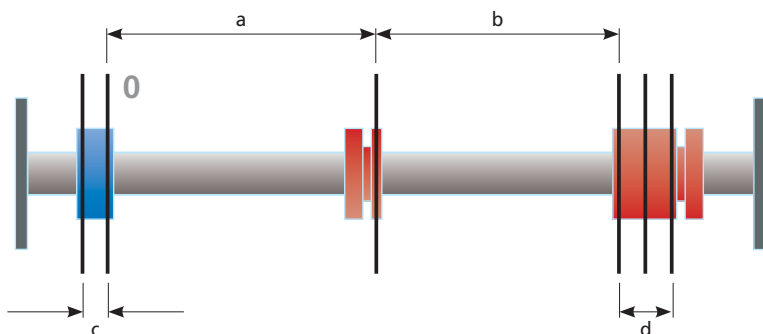


Fig. 5: Movable saw configuration with one fixed and two movable saw bushes

	KME3-812/KME3-816	KME3-1012/KME3-1016
Moving range a (option)	48 (38) - 426 mm	48 (38) - 576 mm
Moving range b	24 - 402 mm	24 - 552 mm
Usable clamping length c	60 mm	60 mm
Usable clamping length d	120 mm	120 mm



Fig. 6: Excellent cut finish on square timber ...



Fig. 7: ... and boards

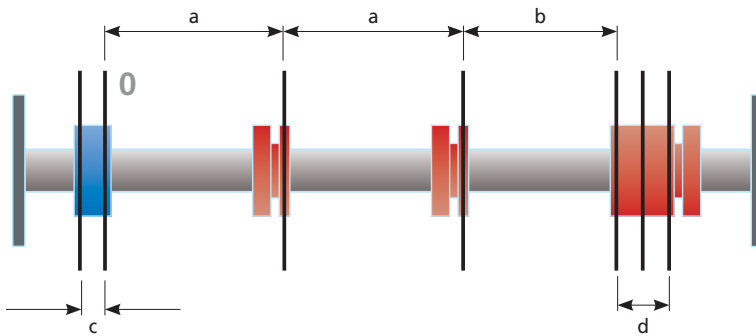


Fig. 8: Movable saw configuration with one fixed and three movable saw bushes

	KME3-812/KME3-816	KME3-1012/KME3-1016
Moving range a (option)	48 (38) - 373 mm	48 (38) - 523 mm
Moving range b	24 - 349 mm	24 - 499 mm
Usable clamping length c	60 mm	60 mm
Usable clamping length d	120 mm	120 mm

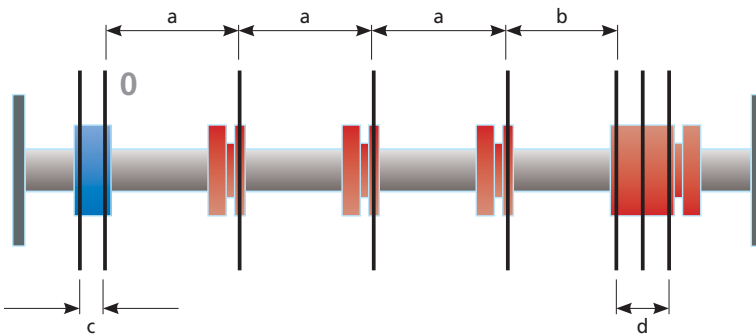


Fig. 9: Movable saw configuration with one fixed and four movable saw bushes

	KME3-812/KME3-816	KME3-1012/KME3-1016
Moving range a (option)	48 (38) - 320 mm	48 (38) - 470 mm
Moving range b	24 - 296 mm	24 - 446 mm
Usable clamping length c	60 mm	60 mm
Usable clamping length d	120 mm	120 mm

THE KME3 IN DETAIL



THE STRENGTHS OF THE KME3

- Compact and modular design for customer-oriented requirements
- Overall dimensions similar to KME2, exchange possible
- Robust, durable construction
- Use of greasable bearings
- Simple tool change
- Hydraulically adjustable top roller pressure
- Hydraulic feed drive with reverse gear
- Stepper-motor actuated line lasers for maximum operating convenience
- User-friendly, LINUX-based control system with graphic user interface

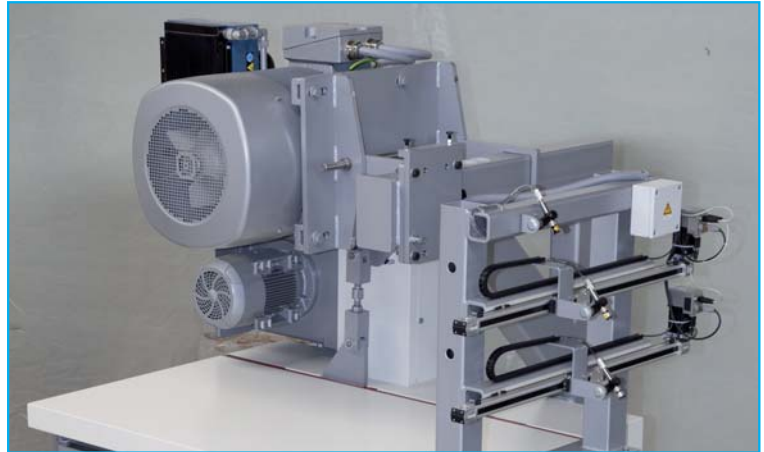


Fig. 10: Extremely compact design with overhead drive unit



Fig. 12: Line lasers indicating the saw blade positions

Fig. 11: Feed roller configuration

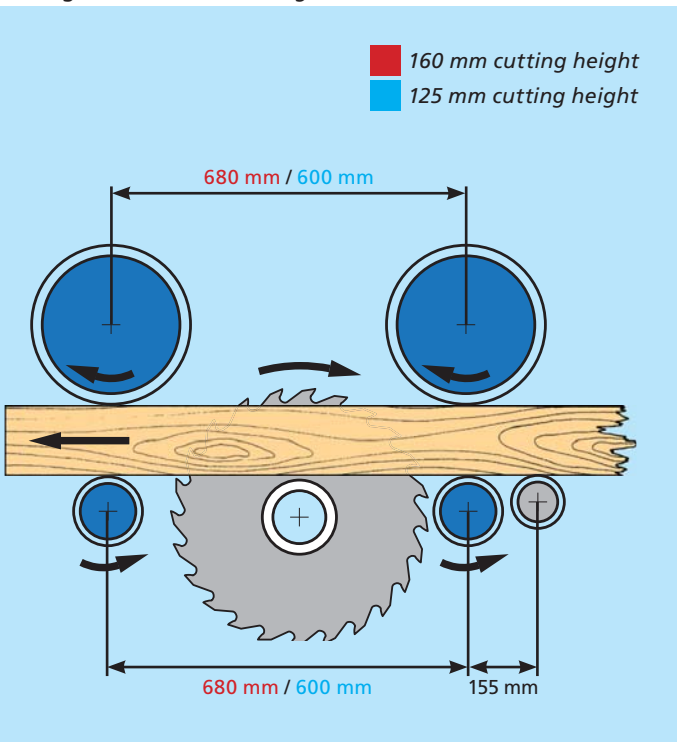


Fig. 13: KME3 with opened machine hood and opened front bearing cover

TECHNICAL DATA

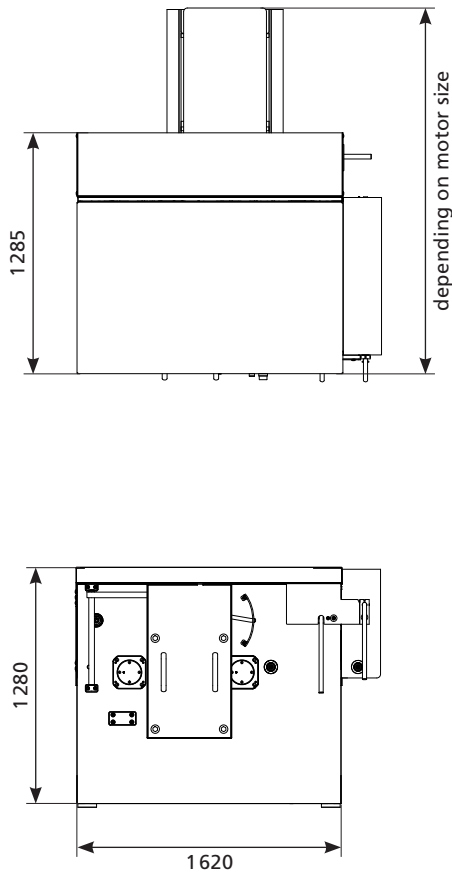


Fig. 14: Dimensions (mm) of a KME3-812 with motor at the rear, right-hand design

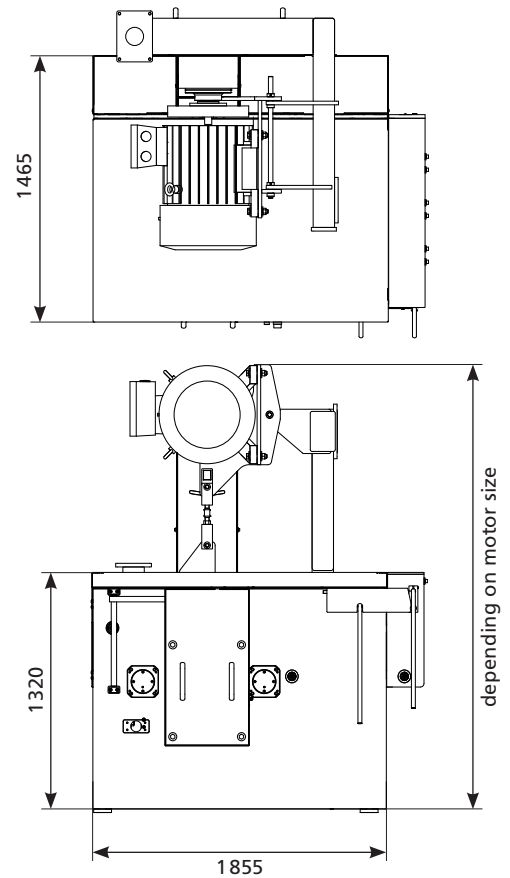


Fig. 15: Dimensions (mm) of a KME3-1016 with overhead motor, right-hand design

		KME3-812	KME3-1012	KME3-816	KME3-1016	
Cutting height	[mm]	15 - 125	15 - 125	15 - 160	15 - 160	
Opening width	[mm]	750	950	750	950	
Min. workpiece length	[mm]	1000	1000	1200	1200	
Driving power	[kW]	15 - 90	15 - 90	15 - 90	15 - 90	
Max. feed speed	[m/min.]	75	75	75	75	
Powered feed rollers		4	4	4	4	
Speed of saw shaft	[U/min.]	3300	3300	3300	3300	
Sound pressure level ¹⁾ at no-load/in operation	[dB(A)]	72/95	72/95	72/95	72/95	
Sound power level ²⁾ at no-load/in operation	[dB(A)]	91/106	91/106	91/106	91/106	
Max. saw blade diameter	[mm]	380	380	460	460	
Movable saw bushes, max.		4	4	4	4	
Movable splitting wedges, max.		2	2	2	2	
Dimensions	L	[mm]	1620	1620	1855	1855
	W	[mm]	1285	1465	1285	1465
	H	[mm]	1280	1280	1320	1320
Weight ³⁾	[kg]	2480	3100	2550	3200	

1) at the workplace, depending on tool and cutting parameters

2) depending on tool and cutting parameters

3) without motor or hydraulic unit, incl. 4 moving saw bushes

ACCESSORIES

INFEED SIDE

- Controlled and fixed line lasers for ease of workpiece alignment
- Roller conveyors in various designs to facilitate easy and rapid alignment and loading
- Pinch roller units
- Semi and fully automatic feeding systems
- Buffer chain conveyors
- Alignment chains
- Destacking systems

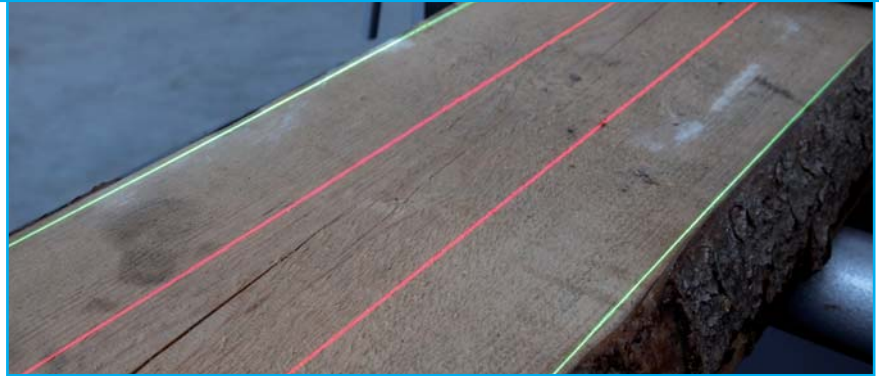


Fig. 16: Line lasers for ease of workpiece alignment



Fig. 17: AB920 fully automatic infeed system



Fig. 18: Convenient alignment table, manually loaded



Fig. 19: Infeed pinch roller unit



OUTFEED SIDE

- Slab extractors
- Automatic offcut separators
- Sawdust shakers
- Pinch roller units
- Spiral roller conveyors ejecting to the right or left
- Powered roller conveyors
- Chain conveyors

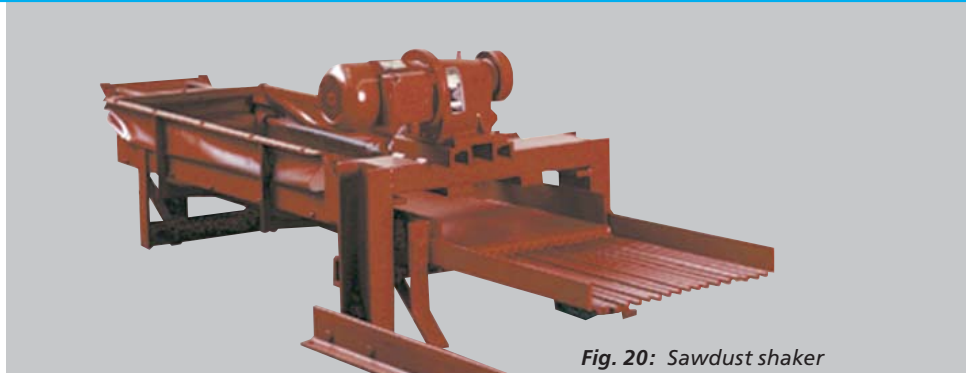


Fig. 20: Sawdust shaker



Fig. 21: Slab extractor



Fig. 22: Offcut separator



CONTROLS

MAXIRIP and OPTIRIP controls for maximization and optimization of timber yield:

- Programming of ripping patterns
- Programming of fixed widths
- Programming of fixed set-ups on multi-saw bushes
- Width optimization (in conjunction with width measurement)
- Diagnostic software
- Network capability
- Remote maintenance
- Yield statistics
- Scanner connection (option)
- Robust casing for arduous sawmilling applications
- Operating terminal freely movable on a cantilever arm
- Other options

Fig. 23: MAXIRIP operating terminal with touch panel and joystick



CUSTOMIZED PACKAGE SOLUTIONS

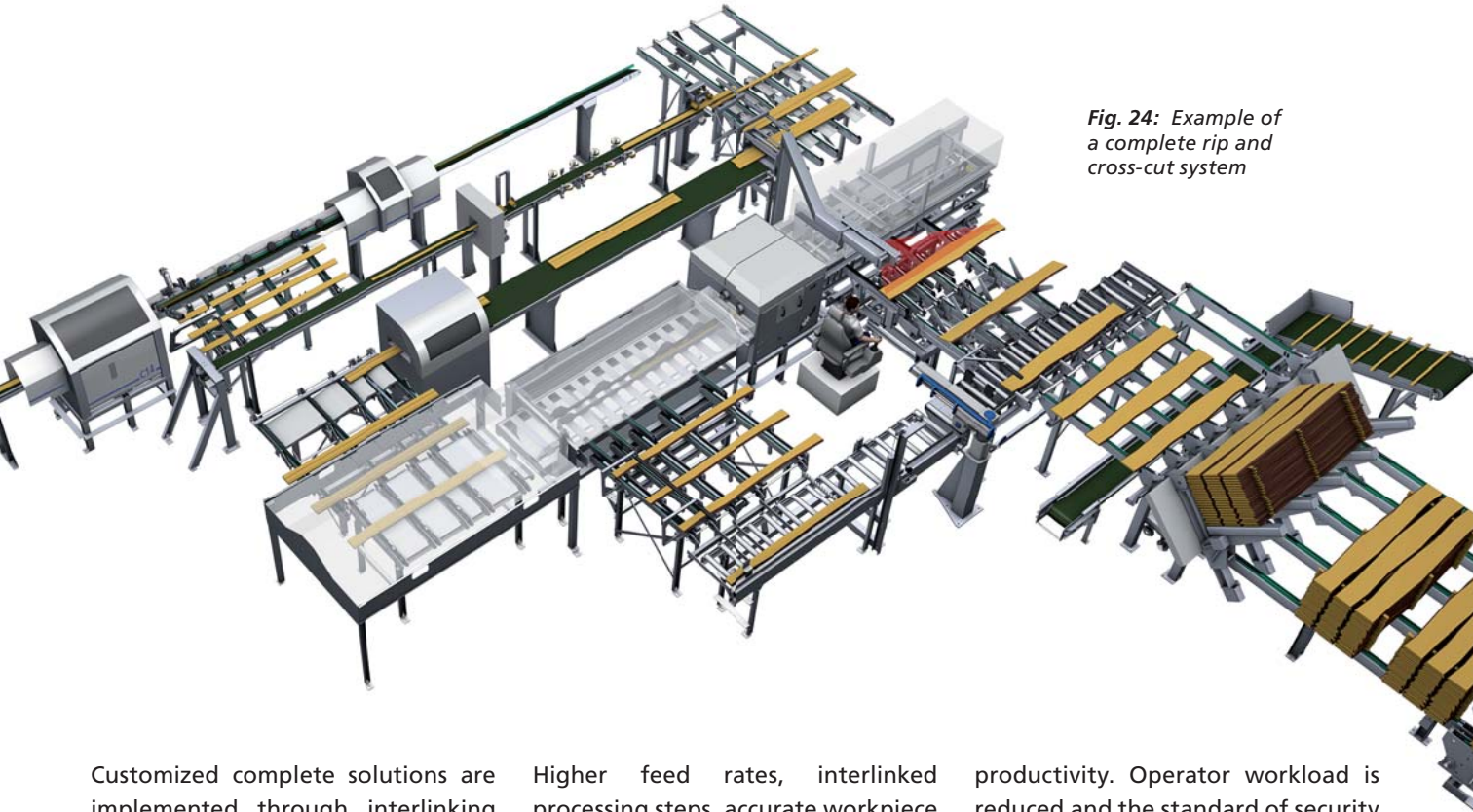
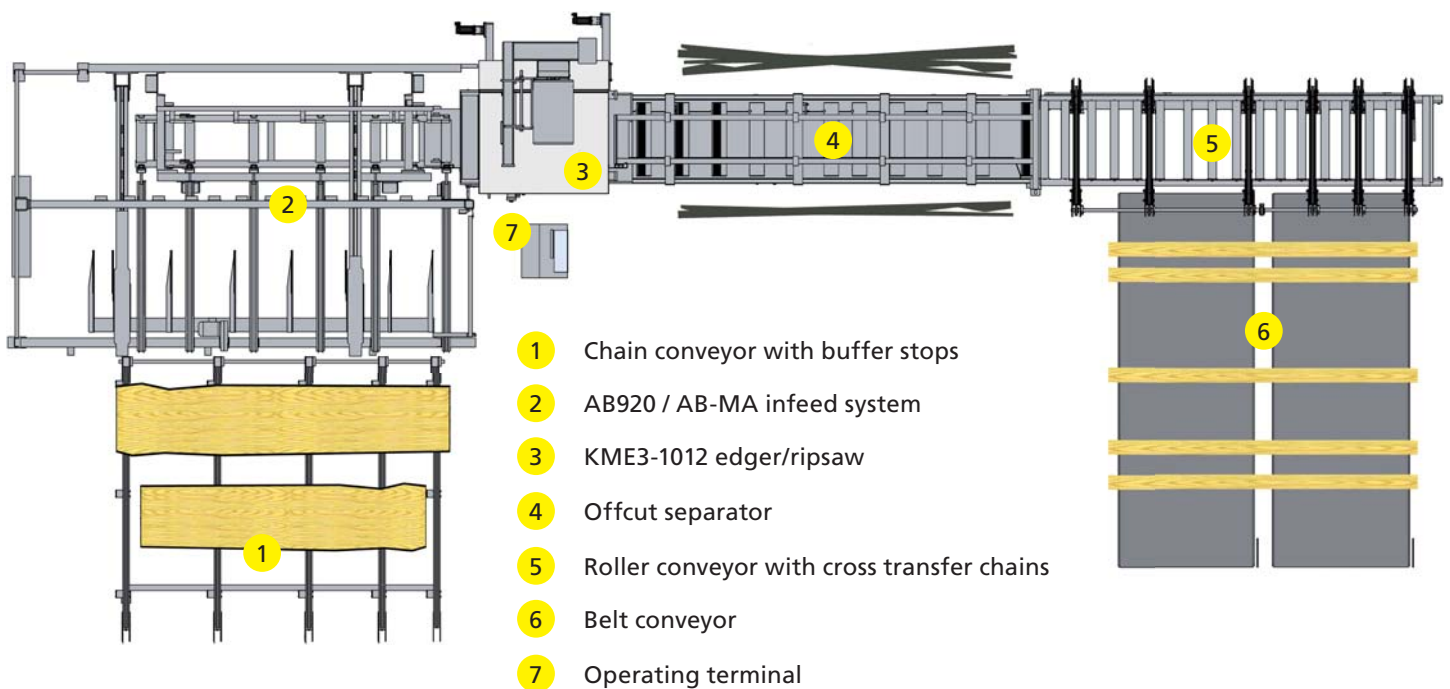


Fig. 24: Example of a complete rip and cross-cut system

Customized complete solutions are implemented through interlinking of rip saws, cross-cut systems and automated handling equipment.

Higher feed rates, interlinked processing steps, accurate workpiece guidance and automatic work flows lead to a significant improvement in

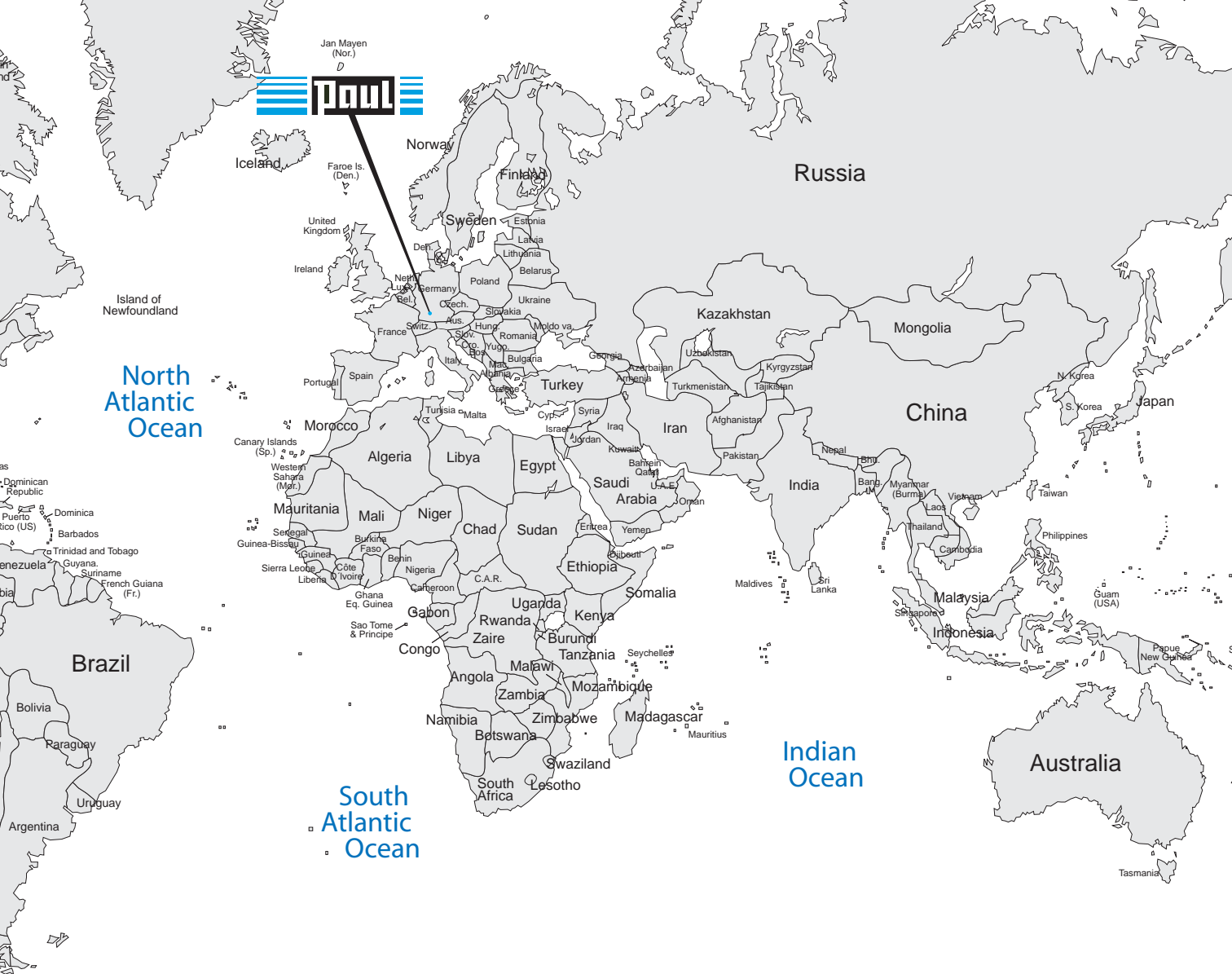
productivity. Operator workload is reduced and the standard of security increased appreciably.



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