

Heavy-Duty Multi-Blade Circular Edgers & Resaws

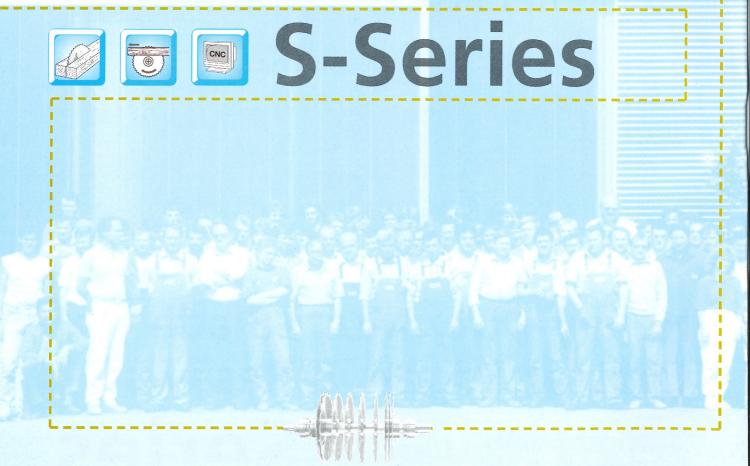






S - Series





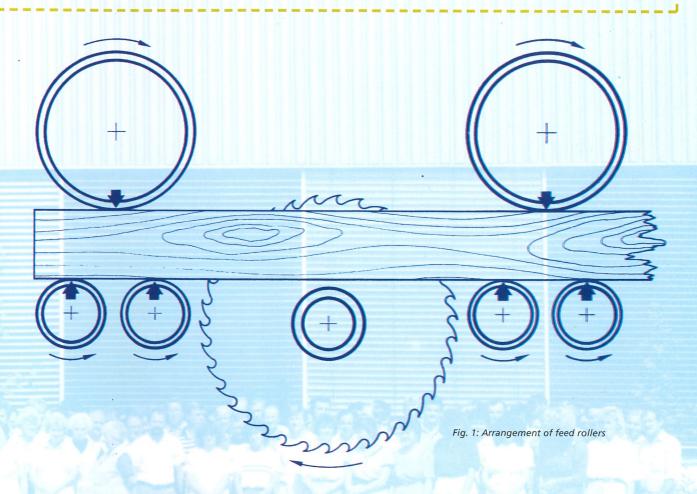




Hard workers

The PAUL **S-models** are heavy, robust and powerful machines, designed for extremely heavy duty. Three **basic models - S900**, **S1200** and **S1500** - with maximum opening widths of 906, 1206 and 1506 mm, make it possible to meet virtually all requirements.

The arrangement of the climbing top feed rollers and fixed bottom rollers ensures accurate guidance of the material being cut. The pressure applied by the top rollers is reinforced hydraulically. The models in the S series, designed for manual or automatic loading, have an accordingly broad field of application.



The PAUL S-models are used:

- as resaw machines for cants up to 180 mm (optional 225 mm) thick
- as edgers or rip saws for the processing of boards and planks
- as particularly powerful machines (up to 250 kW) for the sawing of extremely hard timber
- as universal machines for sawing non-timber materials such as mineral wool, etc.
- combined with an AB920 automatic infeed system for maximum productivity

Model 5 900

The three models \$900, \$1200 and \$1500 (shown in right-hand design) differ visually only in their opening width. The heavy-built machine frame, consisting of welded steel plates, is machined on a machining center with extreme precision.

Three rows of anti-kickback fingers are mounted on the infeed side. Laser guide lights are recommended for optimum timber recovery. For safety reasons the top machine cover and the front bearing door can only be opened when the saw shaft is

at rest. In addition, the hydraulically lifting anti-kick-back devices are interlocked until the saw shaft has come to a standstill. The feed drive is provided with a reverse gear.









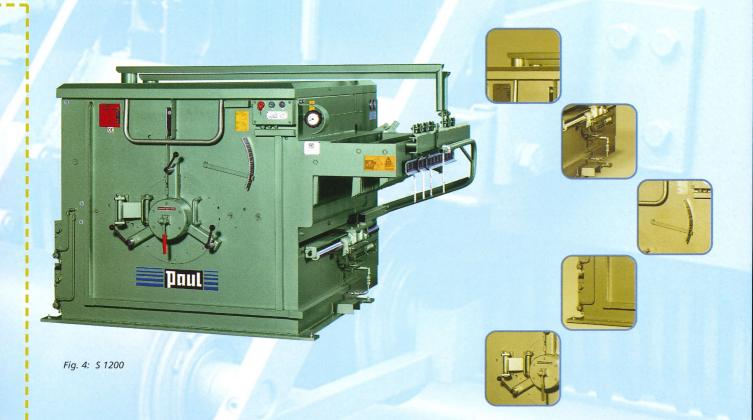


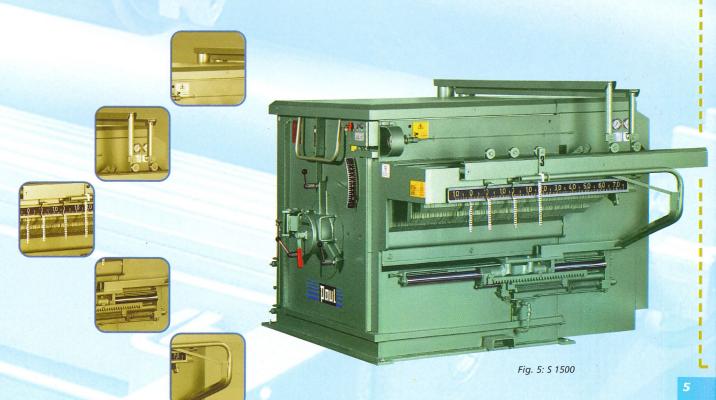


Fig. 3: Model S1200 with powered bottom infeed roller



Models S 1200 and S 1500

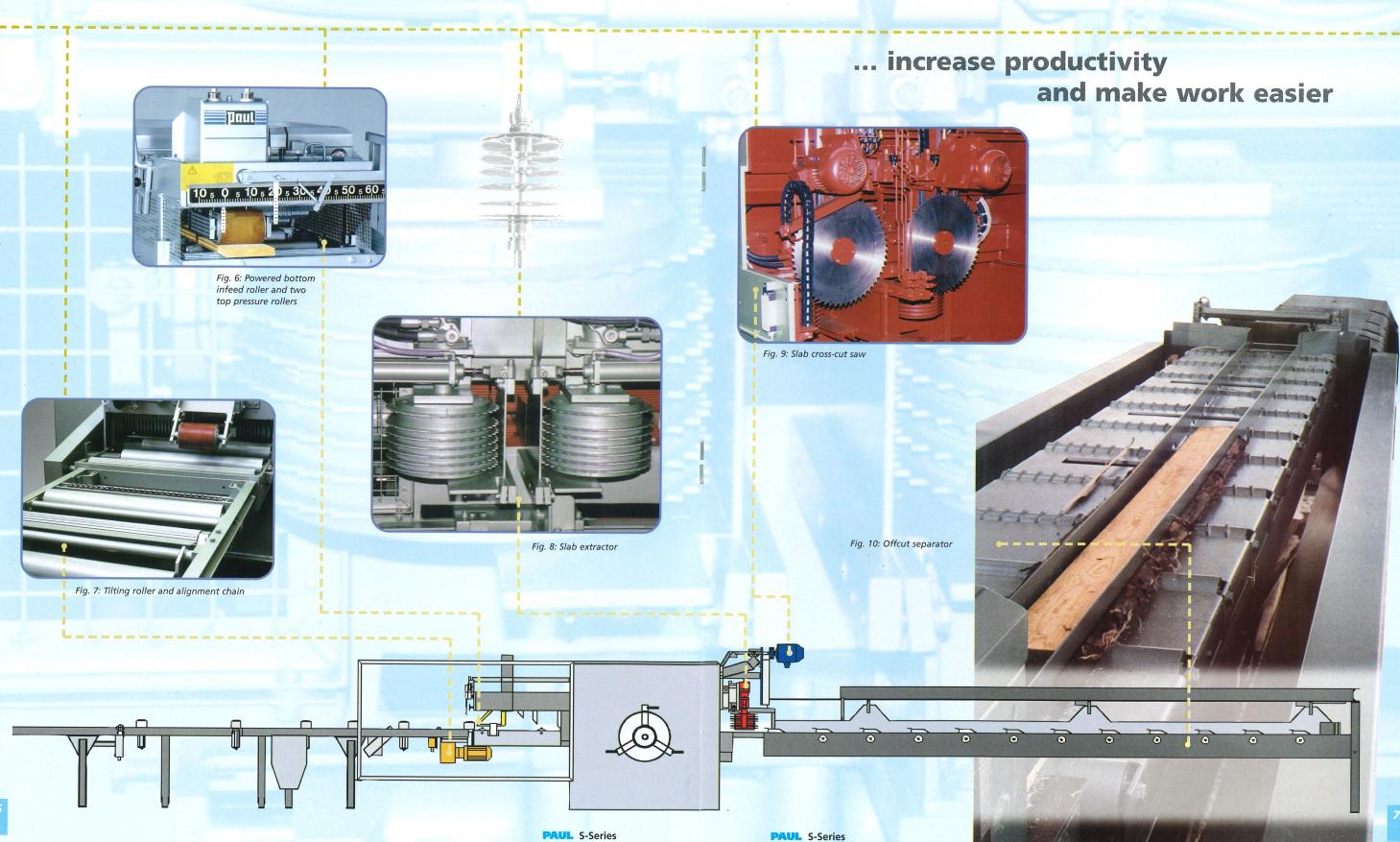




PAUL S-Series



Special accessories...



Saw bush positioning

PAUL offers three different systems for positioning the movable saw bushes and can so provide an ideal solution for every application.

The control elements are extremely easy to operate and of robust construction designed for use in sawmills.



Fig. 12: Electric lever switch

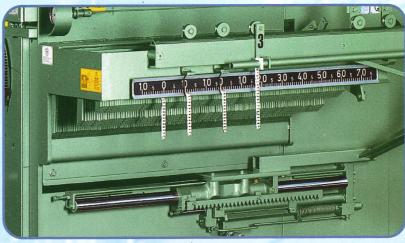


Fig. 11: Hydraulic saw positioning devices

Hydraulic saw positioning

With this system, the movable saw bushes engage every 1 or 2 centimeters.

Positioning is effected with the aid of either an actuating bar or an electric lever switch.

Electric saw positioning

In this case, the saw bushes are positioned steplessly by means of electric motors that are operated either by electric lever switches or foot switches.

Type of positioning Type of control	hydraulic	elektric, stepless	servomotor- driven, programmable
Actuating bar	•		
Electric lever switch	•	•	
NCB-2 control	·		•
NCD control			•

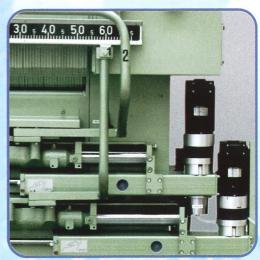


Fig. 13: Servomotor-driven saw positioning system





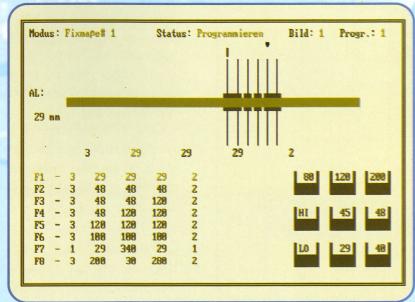


Fig. 15: Display of cutting pattern on NCD control

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PAUL S-Series

Computer-controlled saw positioning

Computer-controlled positioning of saw bushes and splitting wedges by servomotors offers the utmost operating convenience. PAUL offers two alternative CNC controls for this purpose:

The **NCB-2 control** is used for positioning one or two saw bushes. It can store up to 10 cutting lists, each with up to 20 fixed widths, any of which can be selected just by pressing a key. Non-programmed sizes can be set by means of two keys when the movable saw bushes engage at exact centimeter or millimeter sizes.

In the case of machines with more than two movable saw bushes, a so-called NCD cutting-pattern control is used. With this **NCD control**, up to 4 movable saw bushes can be positioned rapidly and accurately on manually or automatically loaded machines. With this system, saw-bush and splitting-wedge positions are displayed on a color monitor.

On machines with an automatic infeed system, the **NCD control** determines the optimum cutting pattern for the workpiece concerned based on the measuring results and then positions the saw bushes accordingly. Graphic display and storage of the optimization results facilitates subsequent checking of yield and daily output.

Cutting patterns

S-series machines, equipped with one fixed and up to four movable saw bushes, offer the utmost flexibility in everyday work.

Depending on the application concerned, one or several movable saw bushes are needed. A selection of possible cutting patterns are shown below:

that a saw bush can carry depends on the **useful** clamping length (UCL) of the bush concerned.

The number of saw blades

Fig. A shows a shaft with one fixed and one movable saw bush.

Fig. **B** shows a shaft fitted with one fixed and three movable saw bushes. The bush on the left is the fixed bush. Double arrows indicate the movable bushes.

bushes. Up to four independently movable bushes provide an even greater variety of cutting patterns (min. strip width 24 mm).

It is, of course, also possible to work with a **fixed saw blade configuration** as shown in Fig. **D**, in which case the saw blades can be set up in any position required by using spacer rings either directly on the saw shaft or on a saw bush of suitable length.

Machines with a fixed saw configuration are provided with manually adjustable pointers to indicate the cutting lines.

On machines with movable saw bushes the indicators are linked to the saw bushes and are positioned automatically.

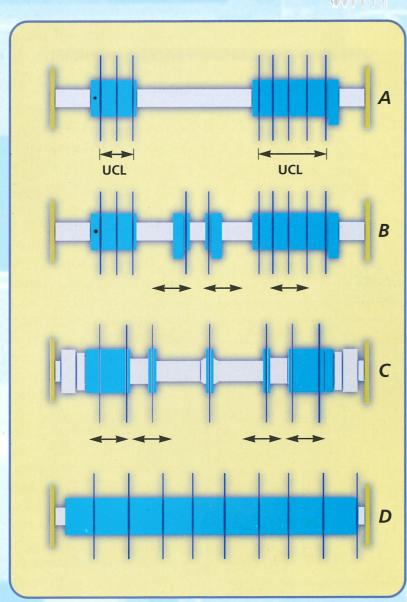
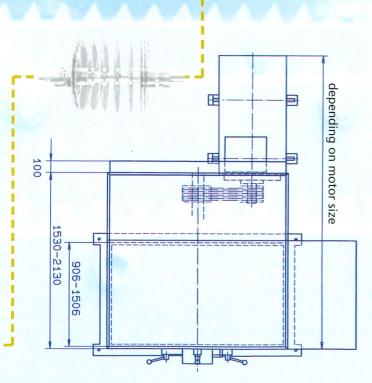


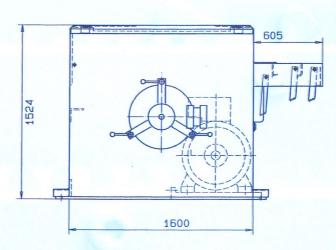
Fig. 16: Selection of possible cutting patterns



Technical Data

	Technical Data	S 900	S 1200	S 1500	Dim.
	Opening width max.	906	1206	1506	mm
	Cutting height, standard (optional) max.	180 (225)	180 (225)	180 (225)	mm
	Workpiece length min.	905	905	905	mm
	Feed speed, infinitely variable	6-77	6-77	6-77	m/min
	Drive power, saw shaft	50-250	50-250	50-250	kW
	Speed of saw shaft (standard)	2500	2500	2500	rpm
	Saw blade diameter max.	550	550	550	mm
	Saw blade bore	110	130	130	mm
	Keyway width x keyway depth (180° apart)	16.5 x 8.5	16.5 x 8,5	16.5 x 8.5	mm
	Spacer ring diameter	150	170	170	mm
	Number of powered feed rollers	6	6	6	
	Top roller diameter	337	337	337	mm
	Bottom roller diameter	144	144	144	mm
Width of top rollers		810	1110	1410	mm
	Width of bottom rollers	860	1160	1460	mm
	Weight (without motor) approx.	2,500	3,300	3,800	kg





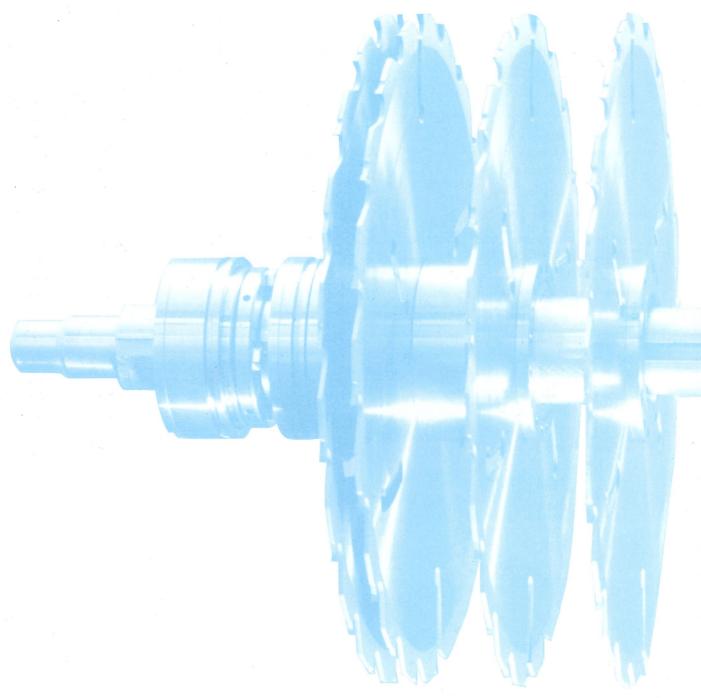














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