



S-Series

Heavy-Duty Circular Edgers
& Multirip Saws



FOR SAWMILLING APPLICATIONS



Fig. 1 Cants up to 225 mm thick

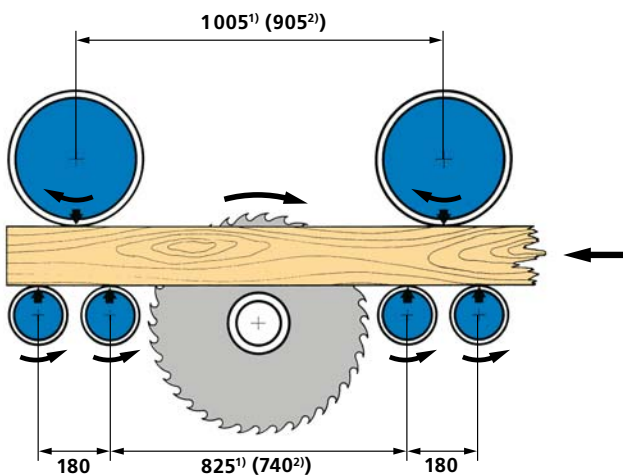


Fig. 2 End products with an excellent cut finish

The PAUL S-models are heavy, robust and powerful machines, designed for extremely heavy-duty work. Three basic models – S900, S1200 and S1500 – with opening widths of 906, 1206 and 1506 mm – offer the optimum working width for any application. 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, are suitable for a multitude of applications:

- as a resaw machine for cants up to 225 mm thick
- as an edger or multirip saw for the processing of boards and planks
- as a particularly powerful machine with a driving power of up to 250 kW



¹⁾ for a cutting height of 225 mm
²⁾ for a cutting height of 180 mm

Fig. 3 Diagram of feed roller arrangement

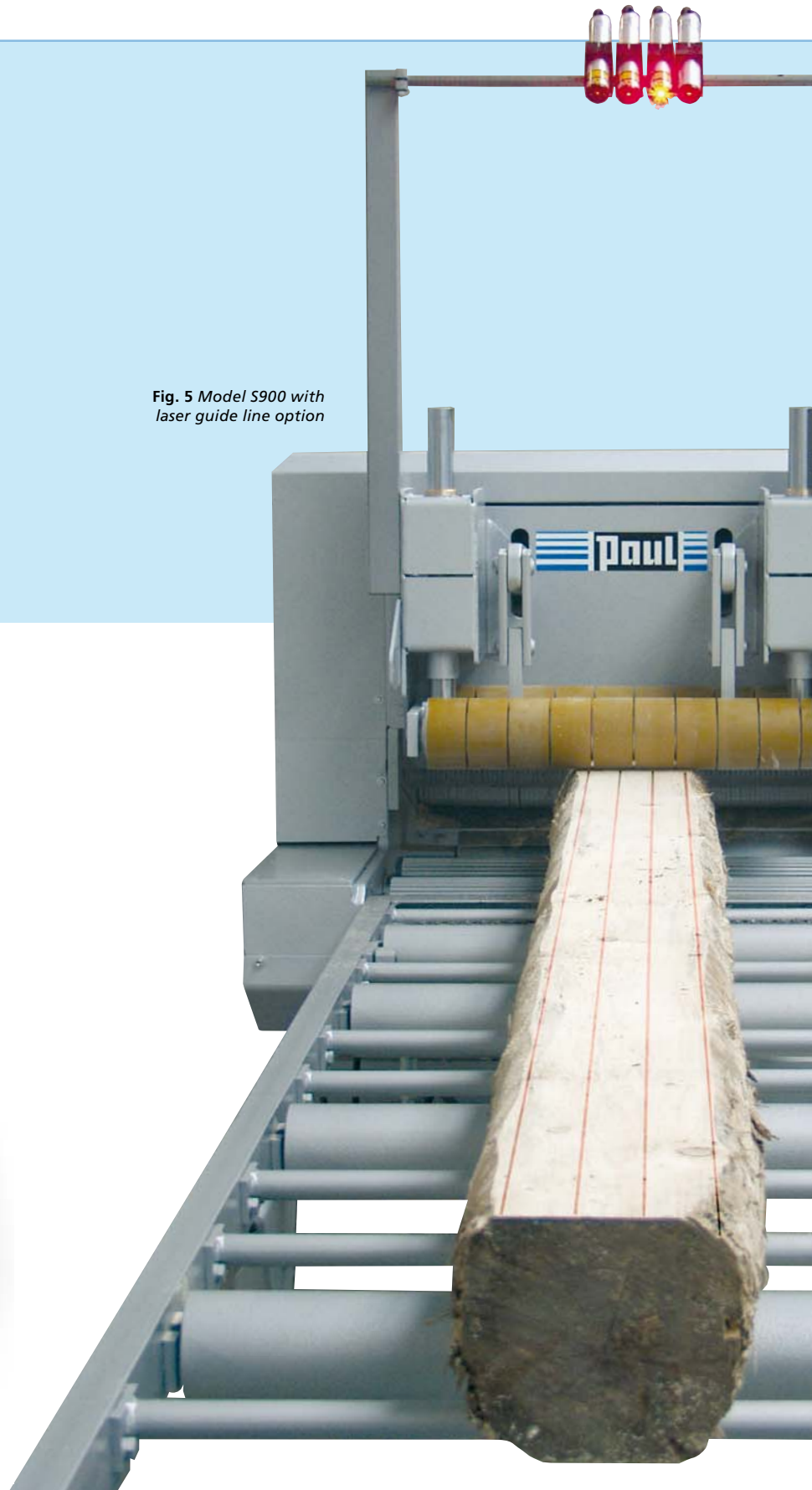


Fig. 4 Possible rippling pattern



Fig. 5 Model S900 with laser guide line option

- as a universal machine for ripping non-timber materials such as mineral wool, etc.
- combined with an AB920 automatic infeed system for maximum productivity with minimum labour cost



SAW BUSH POSITIONING

Version	Saw positioning	Operation
Electronic, servomotor driven	Programmable for <ul style="list-style-type: none"> ripping patterns (with ripping pattern control) fixed widths centimeter increments millimeter increments 	<ul style="list-style-type: none"> Ripping pattern control with industrial PC, monitor and keyboard (Fig. 6) NCB-2 control (max. 2 positioning devices) with push buttons and optional joystick (Fig. 7)
Electrical, stepless	electrical, for producing random widths only	Joystick
Fully hydraulic	hydraulic, centimeter increments	Actuating bar or joystick (option)

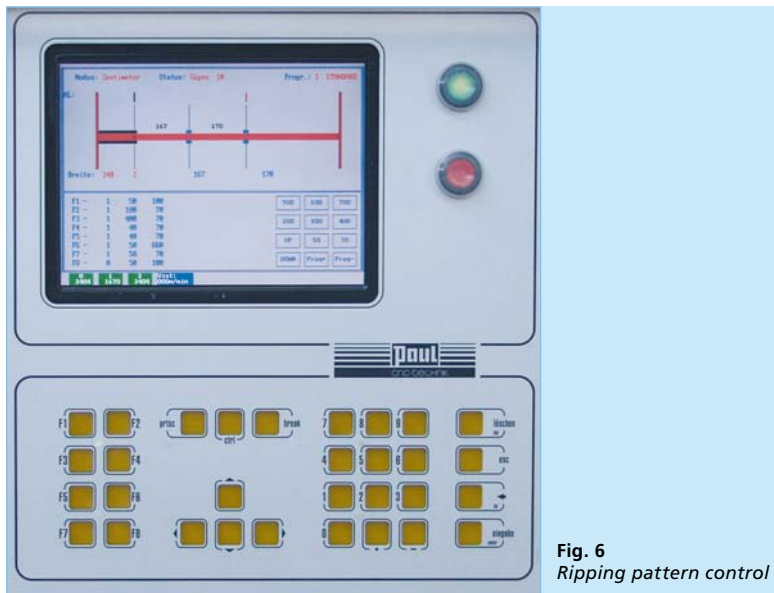


Fig. 6 Ripping pattern control

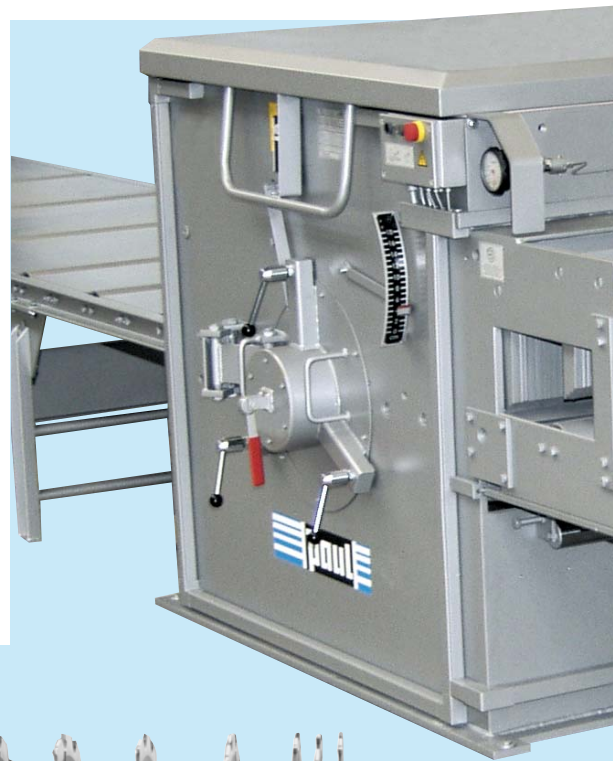


Fig. 7 NCB-2 control with joystick (option)

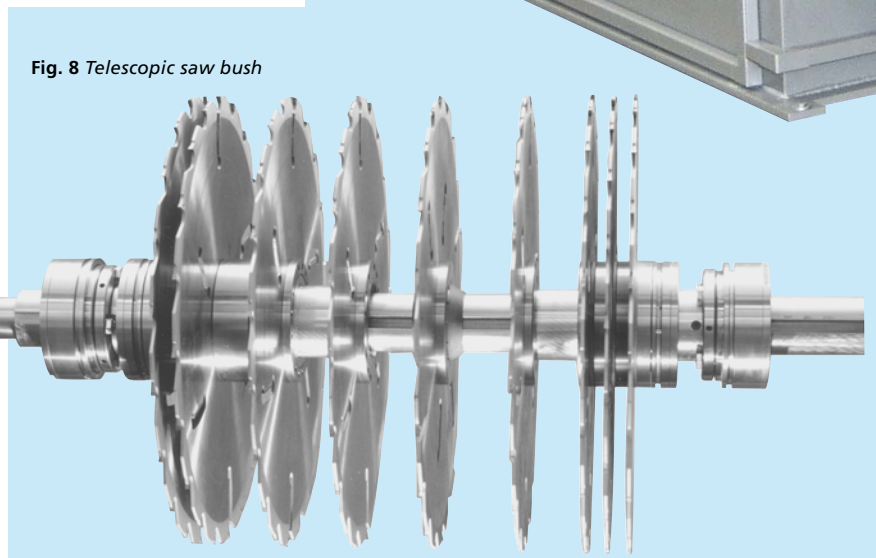


Fig. 8 Telescopic saw bush

ALIGNMENT SYSTEM AND AUTOMATIC FEEDER



Fig. 9 Alignment table with transverse roller bar and alignment chain

Fig. 10 Model S1200, right-hand design, with alignment table and automatic feeder

RIPPING PATTERNS

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

A selection of possible ripping patterns are shown below:

The number of saw blades that a saw bush can carry varies according to the useful clamping length (UCL) of the bush concerned. Fig. 11 shows a shaft fitted with one fixed and one movable saw bush.

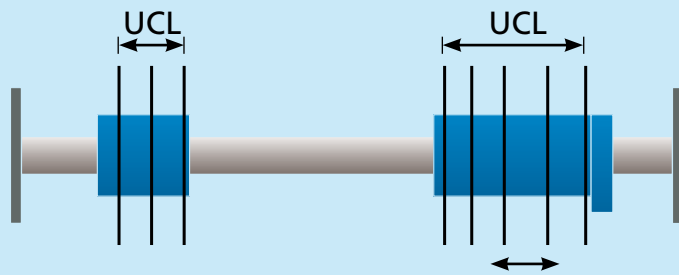


Fig. 11

Fig. 12 shows a shaft with one fixed and three movable saw bushes. The saw bush on the left is the fixed bush. Double arrows indicate the movable bushes.

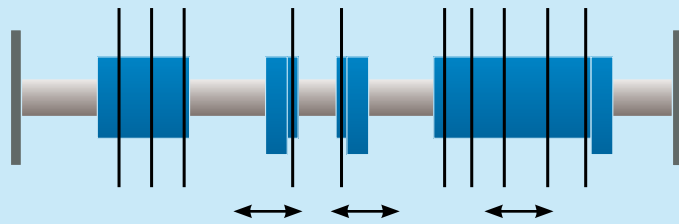


Fig. 12

Fig. 13 shows telescopic saw bushes. Up to four independently movable bushes provide an even greater variety of ripping patterns (min. strip width 24 mm).

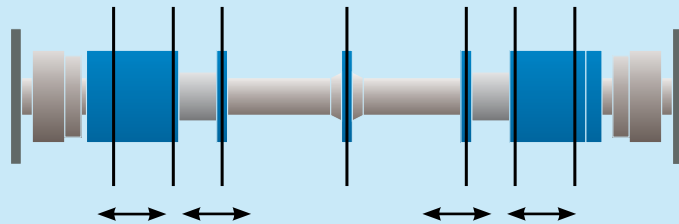


Fig. 13

It is, of course, also possible to work with a fixed saw blade configuration. Here the saw blades are set up in any position required by using spacer rings either directly on the saw shaft or on a saw bush of suitable length (Fig. 14).



Fig. 14

AUTOMATION AND SPECIAL ACCESSORIES

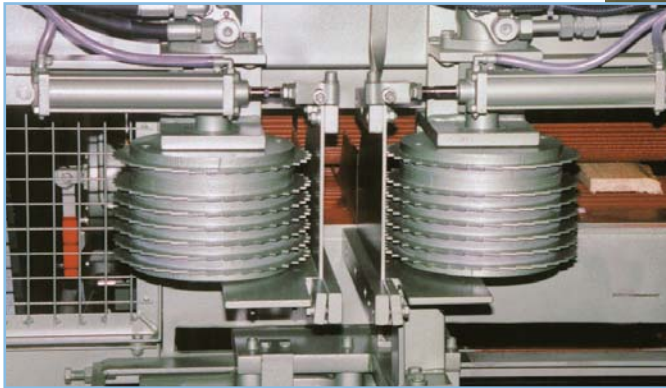


Fig. 15 Slab extractor

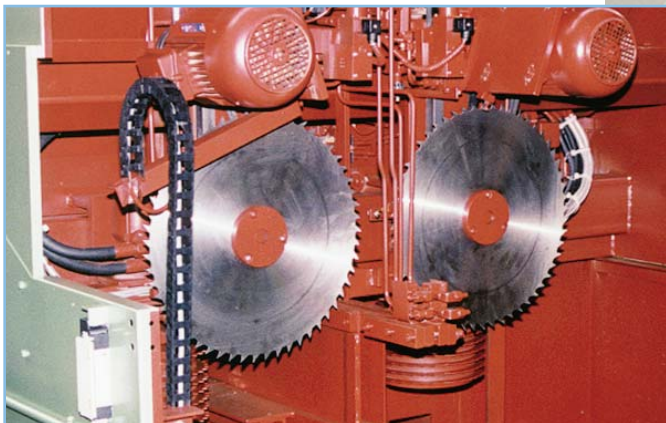


Fig. 16 Slab cross-cut saw

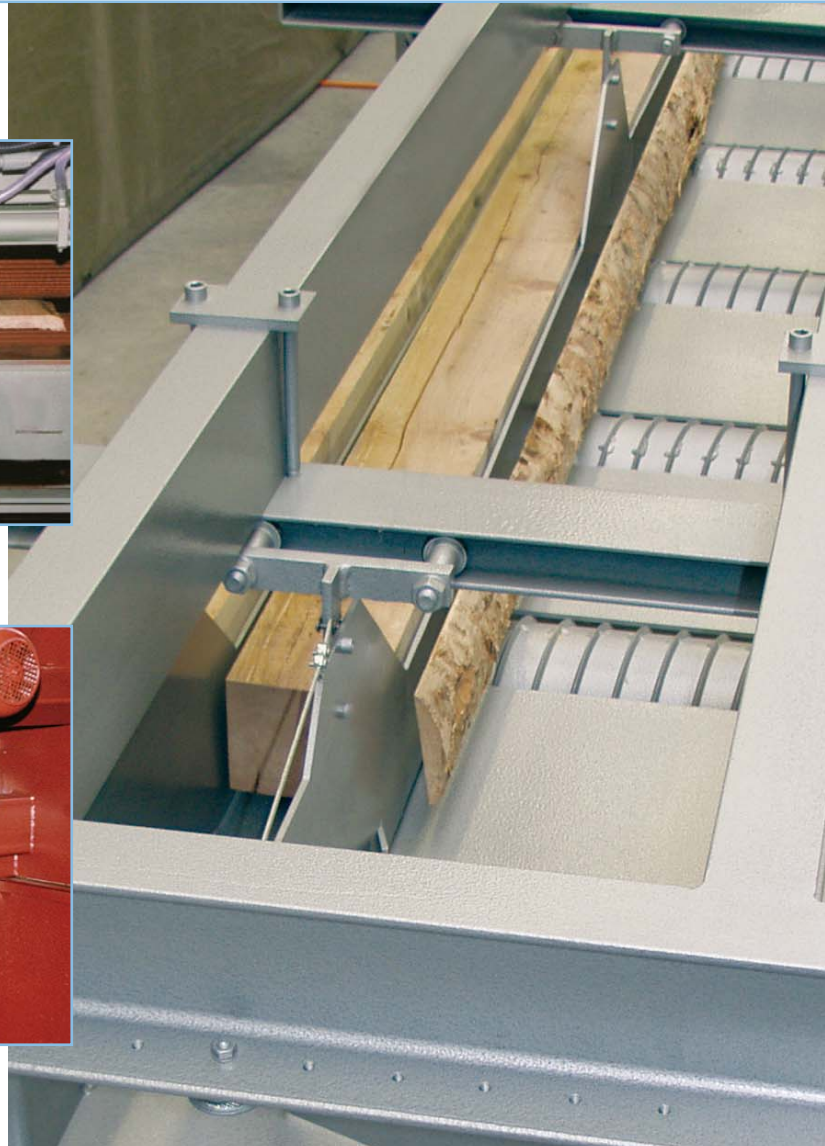


Fig. 17+18 Offcut separator

TECHNICAL DATA

	S900	S1200	S1500
Max. cutting height	180 225 mm	180 225 mm	180 225 mm
Max. Opening width	906 mm	1206 mm	1506 mm
Min. workpiece length	1100 1200 mm	1100 1200 mm	1100 1200 mm
Max. feed speed	90 m/min. infin. variable (with reverse gear)	90 m/min. infin. variable (with reverse gear)	90 m/min. infin. variable (with reverse gear)
Saw shaft driving power	50–250 kW	50–250 kW	50–250 kW
Speed of saw shaft	2500 2000 rpm	2500 2000 rpm	2500 2000 rpm
Number of powered feed rollers	6	6	6
Top roller diameter	337 mm	337 mm	337 mm
Bottom roller diameter	144 mm	144 mm	144 mm
Top roller width	810 mm	1110 mm	1410 mm
Bottom roller width	860 mm	1160 mm	1460 mm
Max. saw blade diameter	550 640 mm	550 640 mm	550 640 mm
Saw blade bore	110 mm	130 mm	130 mm
Keyway width x keyway depth (180° apart)	16.5 x 8.5 mm	16.5 x 8.5 mm	16.5 x 8.5 mm
Spacer ring diameter	150 mm	170 mm	170 mm
Weight*	3200 kg	3900 kg	4600 kg

*without motor or positioning devices

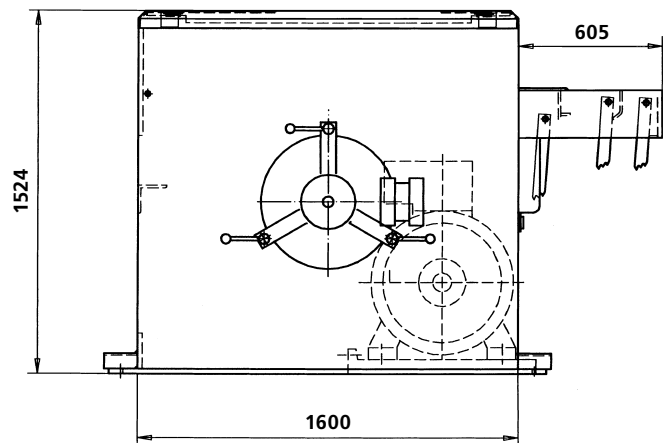
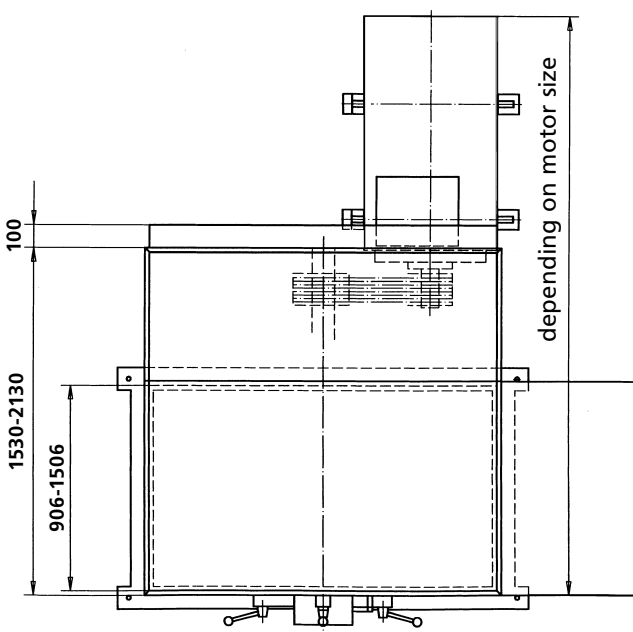


Fig. 19 and 20
Machine dimensions

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