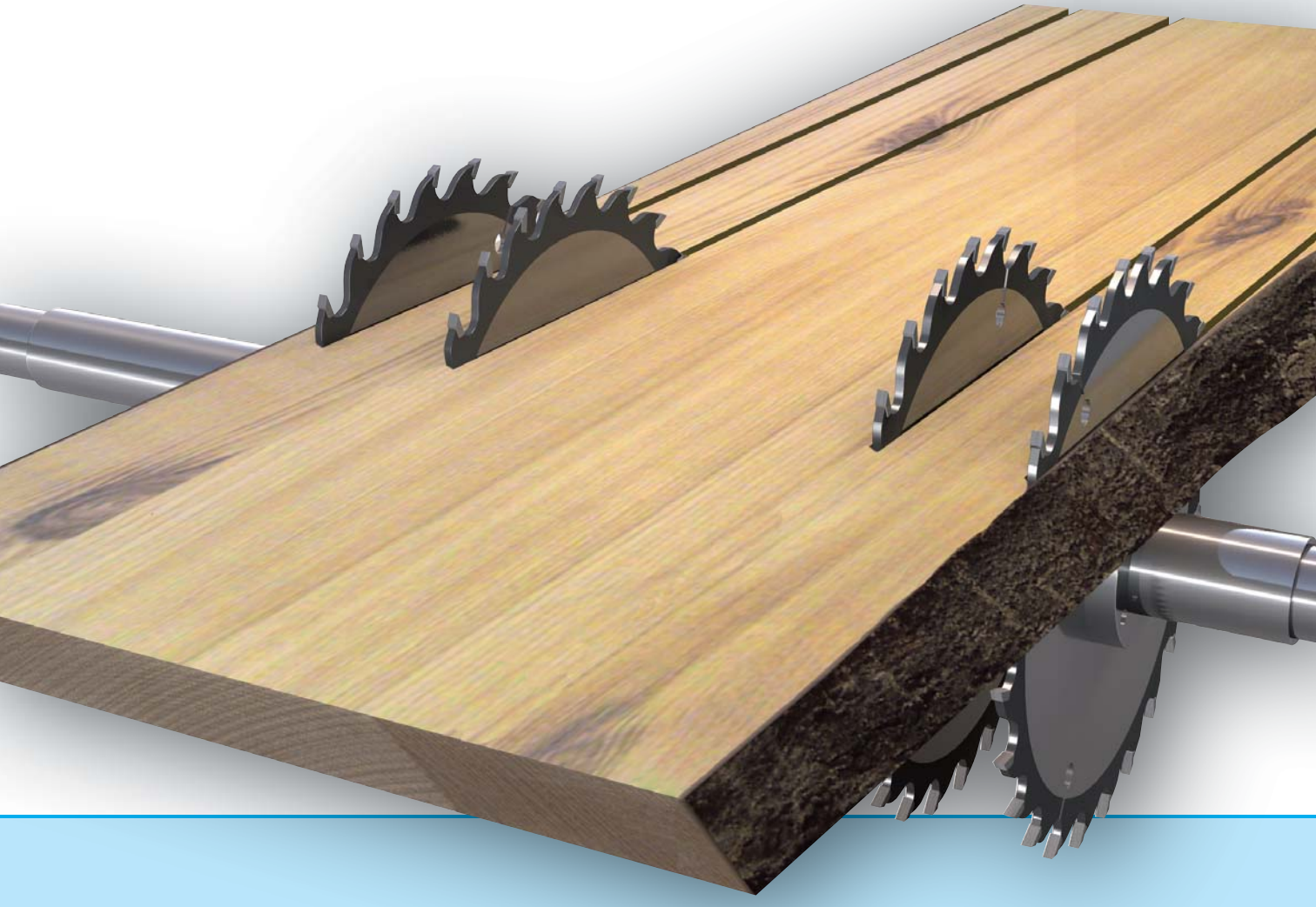
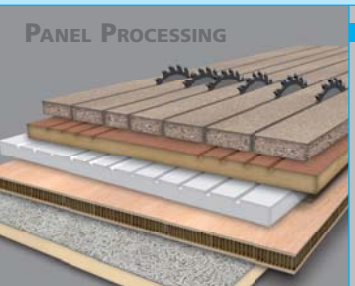
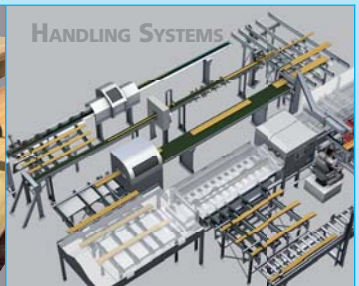
made
in
Germany

Paul
Maschinenfabrik GmbH & Co. KG



Circular Ripsaws
Series Q





INNOVATIVE FEED SYSTEM

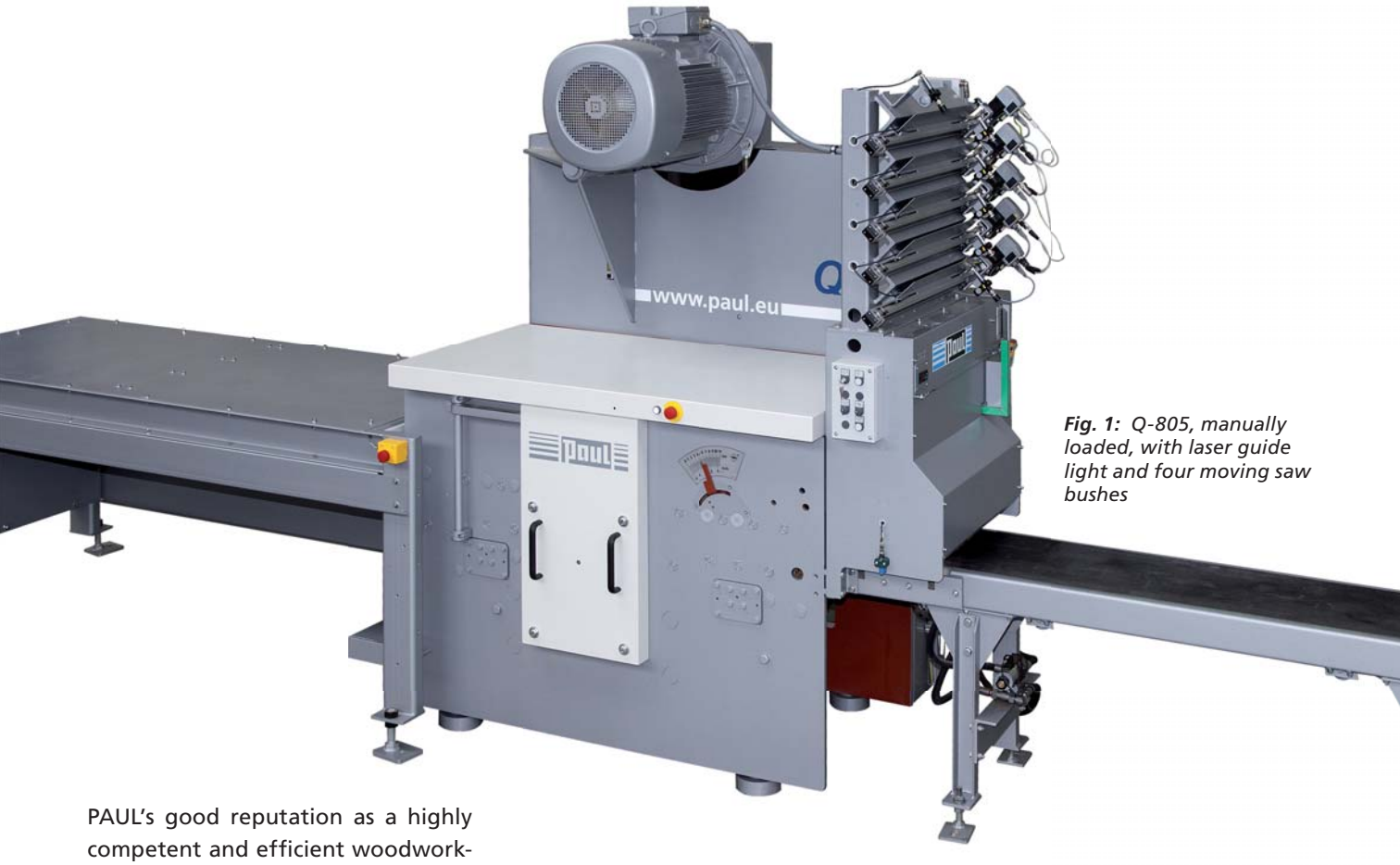


Fig. 1: *Q-805, manually loaded, with laser guide light and four moving saw bushes*

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 with roller feed systems on circular edgers and multirip saws.

The Q series has been specifically developed for ripping dried hardwoods. Depending on the requirements concerned, these machines are available with a saw shaft rotating against the feed or with the feed as a climb-cutting version, combining the benefits of feed rollers (very robust, low maintenance, cost-effective) and chain bed (highly accurate workpiece guidance).

The chain bed takes over the workpiece guidance ensuring optimum alignment with the zero line. A maximum of 18 feed rollers provide for accurate feed and best cutting quality. The products leaving the machine are ready for gluing. A specific optimization program increases both timber yield and productivity.

Drive motors up to 90 kW provide the necessary power for processing workpieces up to 100 mm in thickness and 750 mm in width. With up to 4 independently moving saw bushes the Q Series offers greatest flexibility.

By combining automated handling components PAUL offers intelligent system solutions and complete production lines to the solid wood processing industry, turning the machines of the Q series into highly efficient multi-ripping systems for optimum timber recovery.

Fig. 2: *A grate (option) prevents large splinters and wane sections from getting into the dust extraction system.*

Fig. 3: *The feed system of the Q series, a combination of feed rollers and chain bed*

RIPPING PATTERNS

The Q machines can be equipped with a fixed or a movable saw blade configuration.

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 zero saw bush can be moved either out of the working area or inwards. 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 Q 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.

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

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

Fixed saw bush
Movable saw bush

Fig. 4: *The direct comparison shows the high-precision glue-line cut achieved on a machine of the Q series (bottom).*

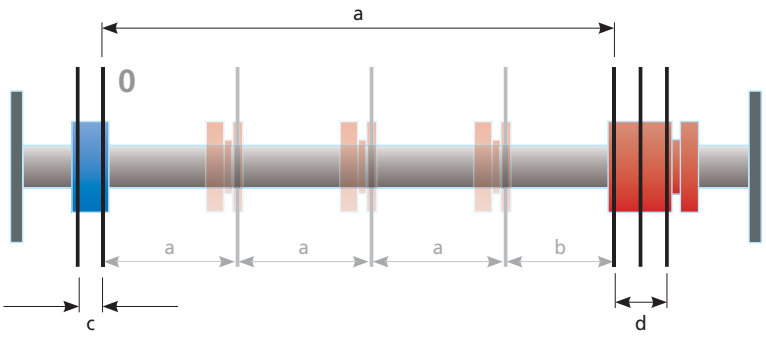


Fig. 5: *Movable saw configuration with one fixed and up to four movable saw bushes*

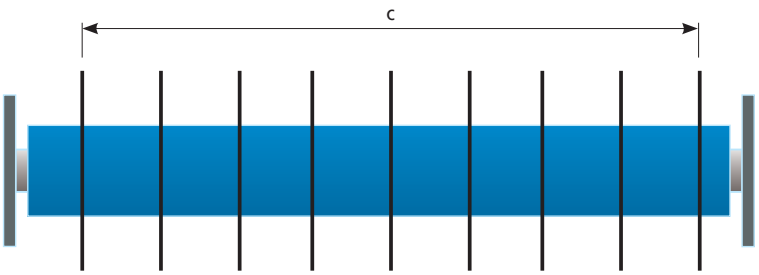


Fig. 6: *Fixed saw configuration on a long saw bush*

	Q-805/Q-810	Q-805/Q-810	Q-805/Q-810	Q-805/Q-810	Q-805/Q-810
Moving saw bushes	**1**	**2**	**3**	**4**	**Fixed set-up**
Moving range **a (option)**	24 - 455 mm	48 (38) - 426 mm	48 (38) - 373 mm	48 (38) - 320 mm	-
Moving range **b**	-	24 - 402 mm	24 - 349 mm	24 - 296 mm	-
Usable clamping length **c**	60 mm	60 mm	60 mm	60 mm	550 mm
Usable clamping length **d**	120 mm	120 mm	120 mm	120 mm	-

TECHNICAL DATA

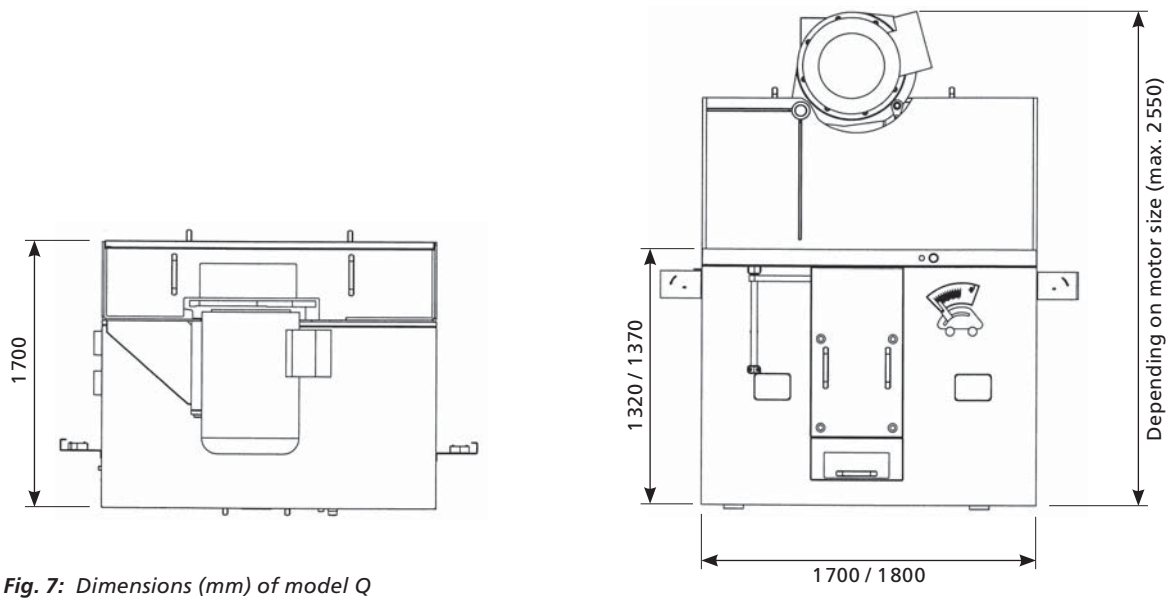


Fig. 7: *Dimensions (mm) of model Q*

			Q-805	Q-810
Cutting height		[mm]	15 - 50	15 - 100
Opening width		[mm]	750	750
Min. workpiece length		[mm]	500	600
Driving power		[kW]	15 - 90	15 - 90
Max. feed speed[1)]		[m/min.]	83	83
Powered feed rollers			18	18
Speed of saw shaft		[U/min.]	4500	4500
Sound pressure level[2)] at no-load/in operation		[dB(A)]	72/77	72/77
Sound power level[3)] at no-load/in operation		[dB(A)]	93/96	93/96
Max. saw blade diameter		[mm]	250	350
Movable saw bushes, max.			4	4
Dimensions	L	[mm]	1700	1800
	W[4)]	[mm]	1700	1700
	H (with motor max.)	[mm]	1320 (2550)	1370 (2550)
Weight[5)]		[kg]	3000	3200

1) with manual workpiece removal max. 35 m/min
2) depending on saw blades
3) at the workplace, depending on tool and cutting parameters
4) depending on tool and cutting parameters
5) without motor or anti-kickback device, incl. 4 moving saw bushes

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