

STENNER

OF TIVERTON LTD.

LOWMAN GREEN TIVERTON EX16 4JX
DEVON ENGLAND

Telegrams: STENNER, TIVERTON

Telephone: TIVERTON 253691

Telex: 42666

Makers of Sawmill Machinery since 1875



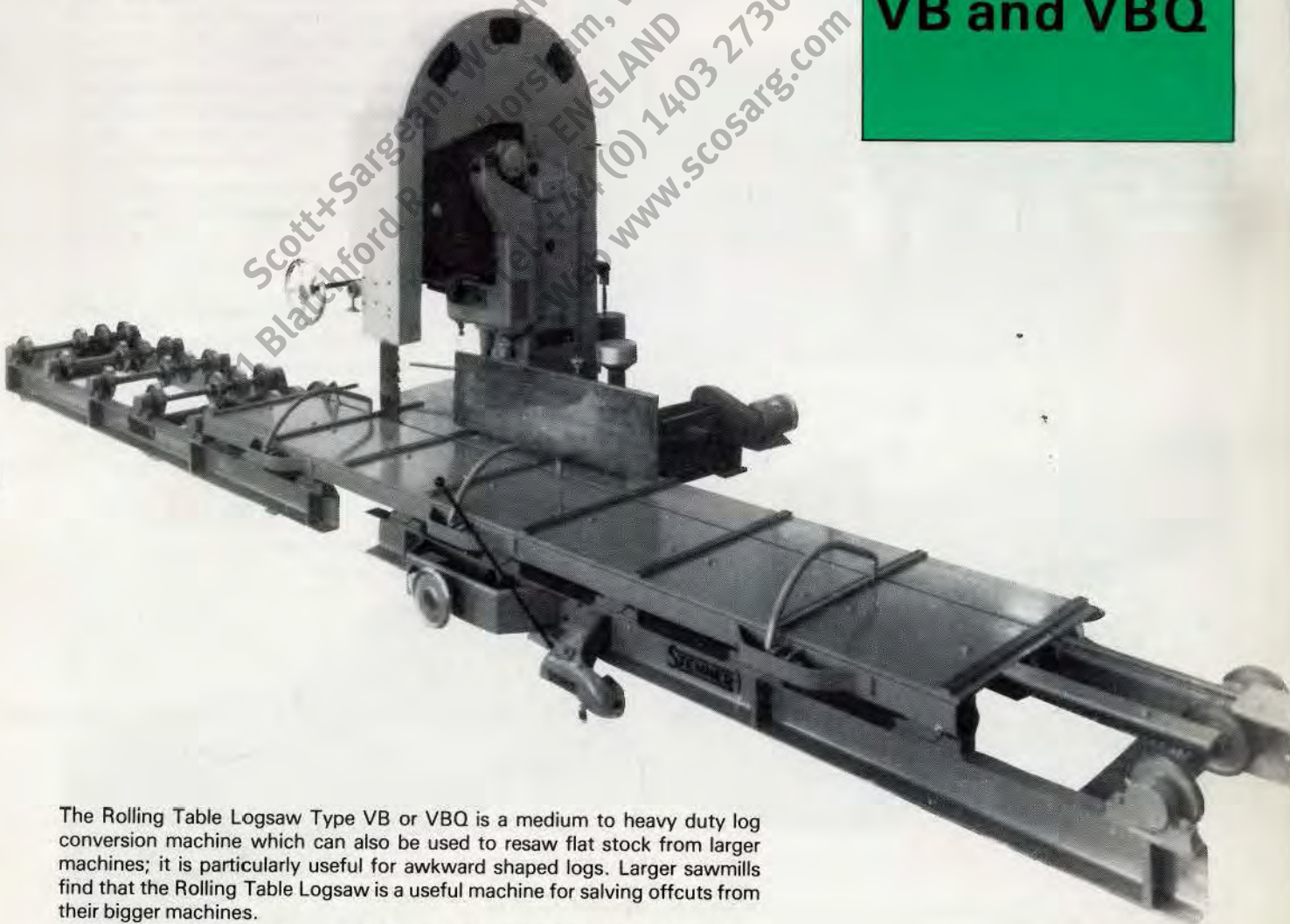
*By Appointment to
Her Majesty The Queen
Manufacturers & Suppliers
of Sawmilling Machinery*



MEMBER OF
WOODWORKING MACHINERY SUPPLIERS
ASSOCIATION LIMITED

Infeed view of
Rolling Table Log Saw VB42
(anti-clockwise) with hydraulic
feedgear and electric
operation of fence.

Rolling Table Log Saws Types VB and VBQ



The Rolling Table Log Saw Type VB or VBQ is a medium to heavy duty log conversion machine which can also be used to resaw flat stock from larger machines; it is particularly useful for awkward shaped logs. Larger sawmills find that the Rolling Table Log Saw is a useful machine for salvaging offcuts from their bigger machines.

The complete machine consists of a band headrig; flat tables; a friction or hydraulic feedgear; and a hand or electrically-operated fence.

Headrig

The band headrig is made with 1.06m (42"), 1.22m (48"), 1.37m (54") or 1.52m (60") diameter saw pulleys rotating clockwise or anticlockwise at a speed of normally 40.6m per second (8000 ft. per minute).

Baseplate and Column

The baseplate is a steel fabrication, heavily ribbed, machined on all bearing and fitting faces to provide a rigid mounting for the saw pulley assembly. The column is also a steel welded fabrication with two slideways on which the top pulley saddles rise and fall.

Saw Pulleys

The solid plate type saw pulleys are special high duty iron castings machined all over, and balanced, the bottom pulley being the heavier to prevent over-running. They are secured on the taper seatings of large diameter shafts, and heavy-duty spherical roller bearings in dust-proof housings are fitted on each side of both saw pulley.

Saw Straining

Saw straining is by a sensitive, totally enclosed knife edge system linked to a weight loaded lever. The strain is altered by varying the number of weights which are spring cushioned to provide constant strain. On VB Headrigs the top pulley assembly is raised and lowered by a hand operated screw, and by an electric motor on the VBQ types.

Saw Guards

The top saw pulley is fully enclosed by sheet metal guards, the front portion being hinged to permit quick saw changing. A front guard is also provided which is attached to the top saw guide support rising and falling with the guides.

Brake

A hand-lever operated brake working on a separate brake drum keyed to the bottom saw pulley spindle is provided: this assists quick saw changing.

Saw Guides

The top and bottom cheek type saw-guides are Lignum blocks individually adjustable; alternatively 'Chaco' anti-friction guides may be fitted. They are raised or lowered by a handwheel on the VB and electrically on the VBQ Headrigs.

Saw and Saw Pulley Cleaning

The saw and saw pulleys are cleaned while running by scrapers, brush and felt pads fed from an oil reservoir, with individual drip feeds.

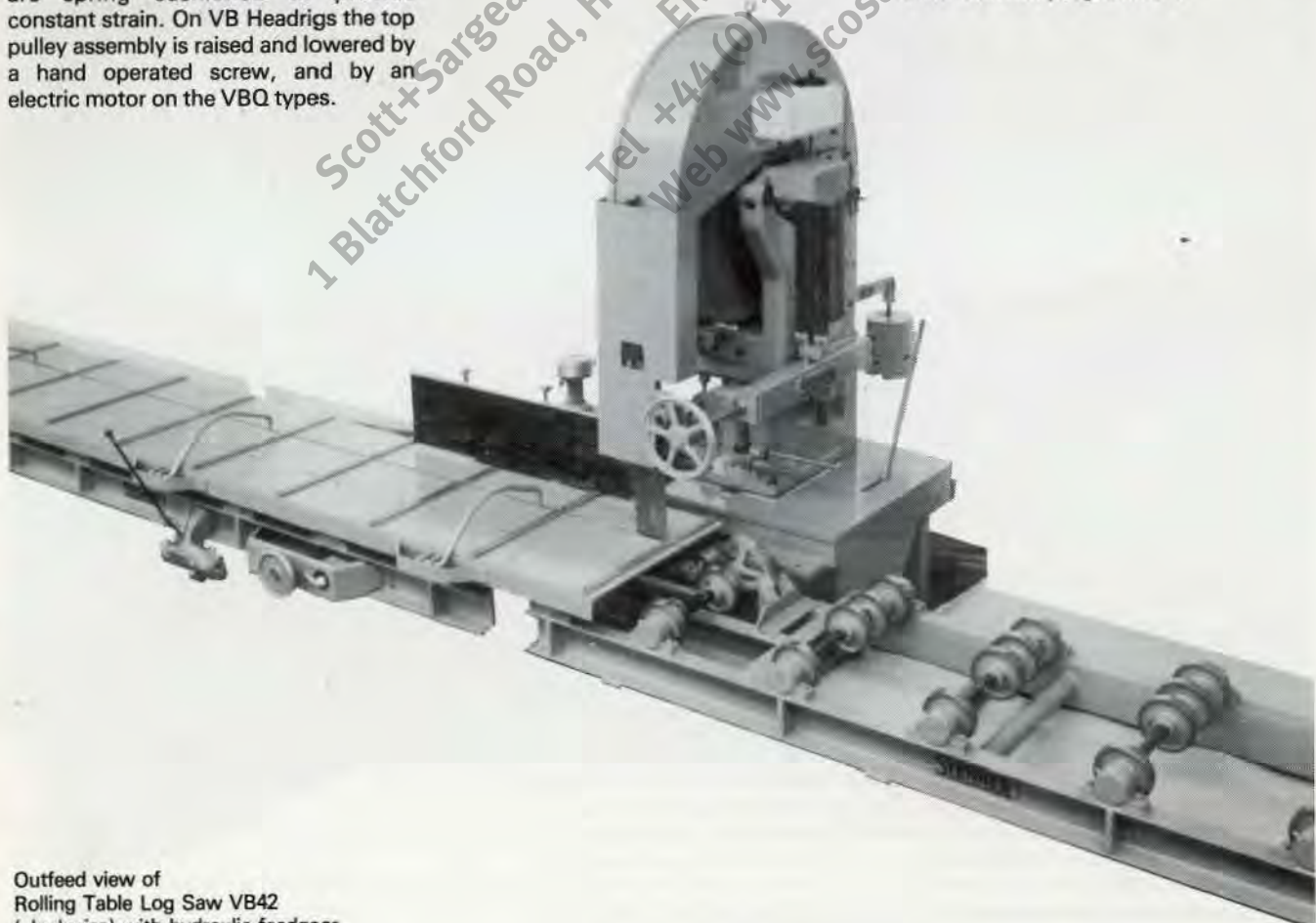
Main Drive

The bottom saw pulley is prepared for vee belt, or flat belt to suit the proposed driving unit. Complete electric motor drives for most power supplies can be provided. They include motor, slide rails starter, master stop push button, one machine vee pulley, one motor vee pulley and one set of vee belts.

Fence

The setting fence is screw operated by handwheel or electric motor and can be controlled from the front or rear of the tables whichever is preferred. The fence plate which opens 508mm (20") from the saw is 1.22m (48") long by 305mm (12") deep and cants up to 45° for bevel sawing. The distance from the fence plate to the saw line is shown on a circular drum with an enlarged scale.

Alternatively a Push Button electric fence setting system is available. This automated system gives nine adjustable pre-set dimensions up to a maximum opening of 305mm (12"). Override buttons are also provided for any dimension not programmed.



Outfeed view of
Rolling Table Log Saw VB42
(clockwise) with hydraulic feedgear
and electric operation of fence.

Rolling Tables

The rolling tables consist of two steel tables, one running on each side of the saw mounted on a series of roller assemblies which are bolted on to a steel subframe. The subframe rests on a concrete foundation. The height of which is arranged to provide a convenient table height.

The tables are made in two sizes and in any length from 3m (10ft.) upwards in multiples of 600mm (2ft.). The two sizes are 600mm (24") and 250mm (10"); 500mm (20") and 250mm (10")—the front or working table being the widest. A sawmiller can thus choose a rolling table log saw to give him the most suitable machine for his operating requirements by combining any of the headrigs with one of the two table sizes.

Hydraulic Feedgear

The Hydraulic Feedgear type HFG is powered by a 2.25 kW (3 h.p.) electrically driven pressure unit.

This provides speeds for medium to heavy bandracks of up to 45m (150ft.) per minute and for light bandracks 60m (20ft.) per minute.

The exact speed is dependent on the size and design of the machine.

Installation is a very simple matter. There are no fittings on the tables and the floor area around the bandrack is clear of all obstructions.

All existing Stenner bandracks can be fitted with a Stenner Hydraulic feedgear.

Pressure Assembly

This is a compact steel fabrication carrying the oil tank, electric motor, hydraulic pump and the oil valves and filters. It is usually installed under the bandrack tables.

Drive Assembly

This is installed in the sub-frame carrying the tables. It is a simple steel fabrication carrying the hydraulic motor, reduction pinions and spur gearwheel. The gearwheel meshes with the rack on the underside of the tables. For existing hand feed machines the rack is supplied at slight extra cost.

Control Unit

The control unit is a strong casting housing the control valving and operating lever. The unit is normally attached to the side of the bandrack subframe for front or rear operation. The single lever controls both speed and direction.

The tables are made from steel plate, flattened, straightened and machined on the edges, and are fitted at intervals with cross bearer bars on the top, and with guide rails on the top, and with guide rails on the underside. Rules are inset on a number of the cross bearer bars. Hook dogs are fitted at intervals along the edge of the front table.

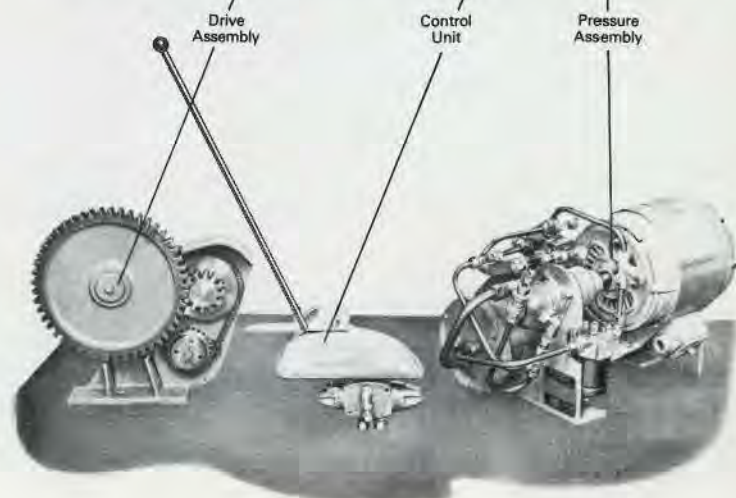
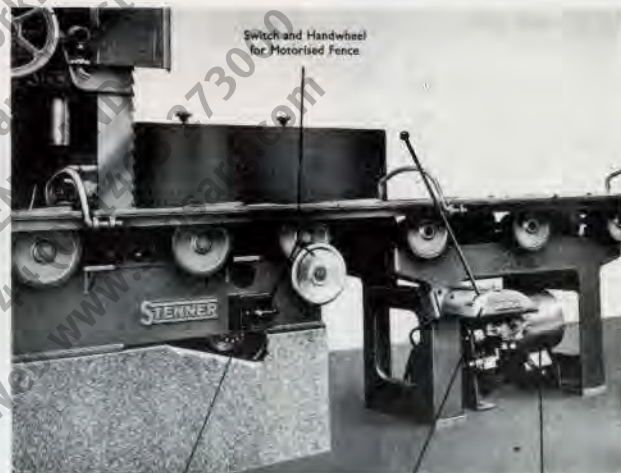
The tables run on a series of roller assemblies spaced at close intervals along the length of the subframe. Each roller assembly consists of accurately machined rollers carried on steel spindles which are supported at each end by ball bearings contained in dust-proof housings. The sub-frame is just over twice the length of the tables but can be supplied in any additional length when it is required to load the tables at a

distance from the headrig. The subframe is of 152mm x 76mm (6" x 3") channel strongly cross-braced; two main channels are used for the 500mm (20") and 250mm (10") tables; three on the 600mm (24") and 250mm (10") tables.

Timber Offset

This is a simple attachment fitted to the roller assembly immediately behind the saw. It consists of a weightloaded quadrant with a bevelled rear edge. The quadrant stands proud of the tables and deflects the timber away from the saw on the return stroke; on the cutting stroke it is pressed below the table level by the timber being cut.

A 2.25 kW (3 h.p.) hydraulic feedgear. This gives top table speeds ranging from approximately 45.7 to 61 m (150 to 200 ft.) per minute according to the size and design of the bandrack.



As the illustration shows there are no obstructions on the floor around the machine and there are no fittings on the tables. The concrete has been broken away for illustration purposes only.

Friction Feedgear

This mechanical friction feedgear type VG gives a maximum forward speed of 30m (100ft.) per minute and a reverse speed of 36m (120ft.) per minute.

The feedgear is mounted on a bedplate, fixed in the motor pit and is driven by a separate electric motor.

A single lever controls the forward and reverse motions as well as the speed variation.

When making an enquiry or placing an order the following information should be given:

Type of headrig—VB or VBQ

Size of headrig

State type of sawguide required

Size of tables—500mm and 250mm (20" and 10") or 600mm and 250mm (24" and 10")

Length of tables

Clockwise or Anti-clockwise rotation of saw pulleys viewed from infeed side of machine

Friction or hydraulic feedgear:

If hydraulic state top speed required

Is hand, electrically-operated or push button electrically operated fence required?

Method of drive. If electric, give supply details

Is Main Motor preferred on or below floor level?

PRINCIPAL DIMENSIONS & DATA

	VB		VBQ					
	42	48	48A	48B	54E	54F	60E	60F
Diameter of saw pulley	42" 1.06m	48" 1.22m	48" 1.22m	48" 1.22m	54" 1.37m	54" 1.37m	60" 1.52m	60" 1.52m
Width of saw pulley face	4½" 114mm	5" 127mm	5½" 140mm	5½" 140mm	7¼" 184mm	7¼" 184mm	8¼" 210mm	8¼" 210mm
Maximum width of saw	5" 127mm	5½" 140mm	6" 152mm	6" 152mm	8" 203mm	8" 203mm	9" 229mm	9" 229mm
Maximum length of saw	23'0" 7.01m	27'0" 8.23m	25'0" 7.62m	27'0" 8.23m	32'0" 9.75m	34'0" 10.36m	33'8" 10.26m	35'8" 10.87m
Maximum length of saw	22'4" 6.81m	26'4" 8.03m	24'2" 7.36m	26'2" 7.97m	31'0" 9.45m	33'0" 10.06m	32' 9.96m	34'8" 10.56m
Maximum depth of under guides (with table height 31" (787mm))	32" 812mm	44" 1.12m	34" 863mm	45" 1.14m	41" 1.04m	53" 1.34m	41" 1.04m	53" 1.34m
Saw pulley speed for 8000 ft/min (40.6m/sec)	725	635	635	635	565	565	510	510
Horse Power Range (kW)	25-40 19-30	35-50 26-38	50-70 38-53	50-70 38-53	60-80 45-60	60-80 45-60	75-90 56-67	75-90 56-67
Nett weight (approx.) tons. Machine with 20'0" (6m) tables	4.2 4267kg	5.5 5588kg	5.9 5995kg	6 6096kg	6.5 6604kg	6.6 6705kg	7.3 7417kg	7.4 7518kg
Shipping dimensions (cubic feet approx.)	471 13.3m ³	561 15.9m ³	592 16.7m ³	620 17.5m ³	627 17.7m ³	660 18.7m ³	762 21.6m ³	800 22.6m ³

Stenner have a policy of constant improvement and development. It will be understood, therefore, that we must reserve the right to supply machines which differ in detail and specification from these described in this leaflet, without incurring the obligation of providing such modifications on machines previously supplied.