

# STENNER

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woodworking machinery

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



MEMBER OF  
WOODWORKING MACHINERY SUPPLIERS  
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## Band Resaw

### VHM 36

The VHM Band Resaw has been specially designed to meet the needs of timber merchants and builders' merchants, and for resawing in production sawmills. It is a true wide bandsaw machine with 914mm (36") diameter saw pulleys and a 100mm (4") or a 75mm (3") wide tensioned saw of thin guage permitting a very narrow saw kerf and high timber recovery rate.

*Shown here with standard fence and variable feed gear.*

## MAIN FEATURES

- 100mm (4") or 75mm (3") wide tensioned saw, fully and efficiently guarded.
- Saw kerf—normally under 1.6mm (1/16") wide.
- Efficient saw and saw-pulley cleaning devices.
- Radial arm feed gear.
- Feed gear driven by separate motor. Four speeds up to 30m/min (98ft./min) or alternatively up to 37.5 m/min (123ft./min) or infinitely variable up to 50 m/min (165ft./min).
- Full width horizontal idle rollers at infeed and outfeed.
- Quickly adjusted canting fence and easily-read indicator.
- Hinged sawguards for ease of saw changing.
- Controls conveniently placed.
- Self-contained machine with integral main motor and electrical equipment.

These features, and many others common to the larger Stenner resaws, are embodied in the VHM 36 to present to the discriminating purchaser a compact, efficient resaw, economical in first cost and saw kerf wastage and requiring the simplest of foundations.

### General

The VHM 36 is made as a left-hand machine, i.e. the saw pulleys rotate in an anti-clockwise direction when looking in the direction of the feed. The drive is arranged to give a saw speed of 35.5m/sec. (7000ft./min.).

### Machine Base and Column

The machine base is a substantial, all-steel welded fabrication, providing a rigid support for the top and bottom saw pulley units, the radial arm feed-gear, the table and the fence. The robust cast iron top column has machined slideways for the rise and fall of the top saw pulley and the top saw guide.

### Saw Pulleys

The solid plate-type saw pulleys are high-duty castings machined all over and balanced; the bottom pulley being the heavier to prevent over-running. They are mounted on substantial ball and roller bearings in dust-proof housings. A tilting device is provided.

### Saw and Saw Pulley Cleaning

The saw is cleaned on both sides by felt pads lubricated from an oil reservoir with a controlled drip feed; the wings of the cleaner are lightly spring loaded and both wings open for saw changing. The saw pulleys are cleaned by non-metallic weight-loaded scrapers and are also lubricated from the central oil reservoir.

### Saw Straining

The top saw pulley is raised and lowered by a hand-operated raising screw. Saw strain is applied by a sensitive coil spring device with graduated indicator, ensuring constant cushioned strain.

### Saw Guides

The top and bottom saw guides are lignum blocks set in pairs on each side of the saw; the blocks are readily accessible and individually adjustable. The top guide is adjustable for height and a convenient locking device is provided. Chaco blocks can also be supplied.

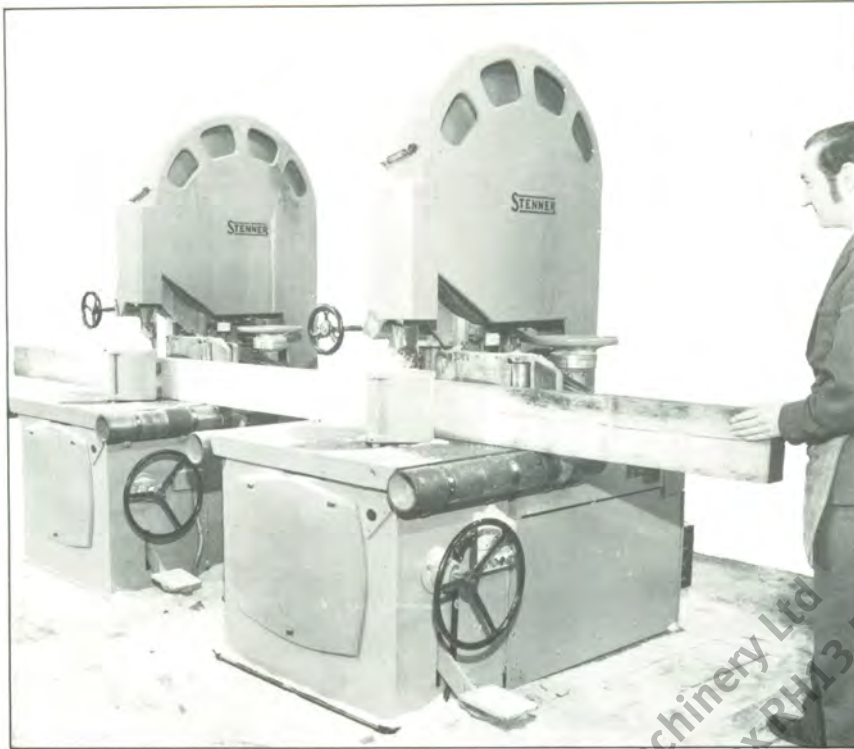
### Saw Guards

Efficient guards completely enclose the saw, except the actual working depth; portions of the guards are hinged to permit quick and easy changing of the saw.



Machine with guards open

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The VHM 36 Band Resaw can be supplied in tandem for extra productivity



## Feedgear

The feedgear is self-contained within the machine base and is driven by a separate electric motor through an enclosed worm reduction gear. Four feed speeds up to 30m/min. (98ft./min.) or 37.5m/min. (123ft./min.) are provided by multi-diameter vee belt pulleys; a belt tensioning device and a hinged access door permit quick feed speed changes. Alternatively, an infinitely variable feed gear system with speeds up to 38m/min. (124ft./min.) is available or alternatively up to 50m/min. (165ft./min.). The drive is from a separate electric motor through a variable gearbox and up to the radial arm. A rotary knob conveniently placed for the operator on the side of the base frame gives instant control.

The weight-loaded radial arm carries two 203mm (8") diameter feed rollers with machine cut teeth which are efficiently guarded; it is opened to any desired position by depressing a foot pedal and is fully flexible over the maximum opening of 228mm (9") from the saw line. A pneumatic pressure system is also available. The inward movement of the arm is restricted as required by rotating a hand-wheel requiring four turns only for the full opening.

The feed rollers and vertical shaft are quickly detachable permitting timber over 457mm (18") wide to be sawn; the feed rollers are vertically adjustable on the shaft for varying thickness of timber. Rubber-covered feed rollers can be supplied as optional equipment for resawing planed stock and for bevel sawing; normally one is sufficient.

## Main Drive

The main drive is applied to the bottom saw pulley spindle by vee belts and pulleys from a totally enclosed, fan cooled flange-mounted electric motor carried on a pivoted plate for belt tensioning. The drive is enclosed and compact.

## Tables

The tables are high-grade castings, accurately machined, and have a working surface 838mm (33") wide, 914mm (36") long.

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## Horizontal Rollers

The horizontal idle rollers are 115mm (4½") diameter and extend the full width of the table at infeed and outfeed ends.

## Fence

The setting fence is rack-and-pinion operated and opens 228mm (9") from the saw line; it is robustly built and easily set by a large handwheel and long locking lever. The fence plate is fitted with ball-bearing rollers, will cant to 45° and has horizontal and vertical

adjustments. A multi-roller fence plate with closely-spaced rollers is also available as optional equipment. The fence opening is easily and accurately read on an enlarged rotating scale.

## Timber Support Rollers

For handling long timbers Timber Support Rollers are recommended. These are usually supplied in pairs, one for each side of the machine and can be bolted down or left free standing.

The machine is supplied as standard with two toothed feed rollers, with four speed drive. 0.75 and 15 h.p. electrical equipment and emergency stop switch suitable for 400/440 volts, 3 phase, 50 cycles, A.C. supply. Rubber-covered feed rollers, spiked feed rollers, multi-roller front fence plate, variable feed gear, foot operated brake and bandsaws can be supplied as optional equipment. Electrical equipment for most other current supplies can be provided; please state the details.



Multi-Roller Fence



Spiked Feed Roller

## PRINCIPAL DIMENSIONS & DATA

Diameter of saw pulleys	914mm (36")
Maximum width of saw	100mm (4")
Width of pulley face	89mm (3½")
Alternative width of saw	75mm (3")
Width of pulley face	75mm (3")
Maximum length of saw	5.587m (18' 4")
Minimum length of saw	5.384m (17' 8")
Maximum height of top sawguide above table (Maximum depth of cut depends on nature of the work)	406mm (16")
Maximum opening feed rolls to saw line	228mm (9")
Maximum opening fence to saw line	228mm (9")
Table height from floor level	812mm (2' 8")
Overall height from floor level	2.184m (7' 2")
Overall width	1.829m (6' 0")
Speed of saw pulleys r.p.m. for 35.5m/sec. (7000 f.p.m.)	
FEED SPEEDS, metres per minute	7.5, 15.3, 22.5, 30.0
feet per minute	25, 50, 74, 98
Alternative feed speeds, m/min	9.3, 19.2, 28.3, 37.5
ft/min	30, 63, 93, 123
Infinitely variable, m/min	0.38, or 0.50
ft/min	0.124 or 0.165
Main drive motor Standard	11 kW (15 H.P.)
To special order	15 kW (20 H.P.) 18 kW (25 H.P.)
Feed motor	0.55 kW (0.75 H.P.)
Nett weight	1890 kg (37.2 cwts)
Gross weight	2320 kg (45.6 cwts)
Shipping dimensions	6.05 cu. m. (214 cu. ft.)

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 those described in this leaflet, without incurring the obligation of providing such modifications on machines previously supplied.