

A general purpose robust radial arm resaw having saw wheels 1050mm dia. and carrying a sawblade up to 130mm wide.

The saw straining system is by a single sensitive knife edge system giving constant and flexible operation under the most arduous sawing conditions.

The feed system is hydraulically powered and gives variable feed speeds up to 60m per minute adjusted by a conveniently situated control. The infeed and outfeed horizontal rollers are also powered and run in synchronism with the vertical feed rolls; the outer rollers are idle to facilitate returning timber across the table when required.

The hydraulic system also powers the opening of the feed rolls by a foot operated valve, and inward pressure is achieved by a combination of weights together with power from a hydraulic ram giving both flexibility and positive feed characteristics.

The fence of the machine is of the well proven multi-roller type having very low frictional resistance and it can be tilted up to 45° for angle cutting.

The machine is equipped with wheel scrapers and lubrication pads on top and bottom wheels together with spring loaded pads on both sides of the sawblade, all of which are fed from a common reservoir with drip feed control of lubricant.

An electric motor, mounted on the main frame, drives the complete machine and a foot-brake is incorporated.

Particular attention, in the design of this machine, has been given to ease of maintenance, ergonomically placed controls and effective guarding arrangements.



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WOODWORKING MACHINERY SUPPLIERS  
ASSOCIATION LIMITED

**Band  
Resaw**

**VHJ 105**

## SPECIAL FEATURES

- Saw 130mm (5") wide, fully and efficiently guarded.
- Hydraulic Feedgear maximum 60 m.p.m. (200 f.p.m.)—Stepless Control, Adjustable whilst cutting.
- Horizontal Rollers Driven synchronously with vertical rolls.
- Feed Roller Pressure by combined weights and hydraulics.
- Main Motor Drive integral with machine.
- Simple Foundation.
- Multi Roller Fence—standard and cants up to 45°.
- Wide opening of fence and feed rolls.
- Choice of handwheel or Multi Push Button Fence Setting Systems.

### General

The Band Headrig is equipped with 1050mm (42") diameter saw pulleys carrying 130mm (5") wide saws, rotating in a counter wise direction. The main drive, hydraulic system, fence and feedworks are integral parts of the machine.

### Machine Base and Column

The machine base of the headrig is a substantial steel fabrication providing a rigid support for the top and bottom saw pulley units. The robust top column has machined slideways for the rise and fall of the top saw pulley and top sawguide.

### Saw Pulleys

The solid plate type saw pulleys are high duty castings, machined all over and accurately balanced; the bottom pulley being heavier to prevent over-running. They are mounted on substantial ball and roller bearings in dust-proof housings. Saw tracking adjustment is incorporated in the upper shaft.

### Saw and Saw Pulley Cleaning

The saws are cleaned on both sides by felt pads, lubricated from an oil reservoir with a controlled drip feed; the wings of the cleaners are lightly spring loaded and both wings open for saw changing. The saw pulleys are

cleaned by non-metallic weight loaded scrapers and lubricated felt pads fed from the reservoir.

### Saw Straining

The top saw pulley is raised and lowered by a hand-operated screw. Saw straining is applied by spring mounted segmented weights through a sensitive knife edge mechanism.

### Saw Guides

The top and bottom saw guides are synthetic 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 locking device is provided.

### Saw Guards

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

### Main Drive

The drive to the bottom saw pulley spindle is by a 18kW (25 HP) self-contained electric motor drive with squirrel cage totally enclosed motor through a vee-belt drive, giving a saw speed of 40m per second (8000ft per minute). An automatic star-delta starter and a remote master stop button are also provided. Alternatively 22kW (30 HP) or 30kW (40 HP) motors can be supplied.

### Feedworks

The feedworks is driven and controlled hydraulically. The Hydraulic Power Pack is built into the base of the machine and includes a hydraulic pump which is driven from the bottom spindle, a variable speed hydraulic motor, relief and speed control valves and oil tank.

The Radial Arm carries two 250mm (9.¾") diameter feed rollers with cut teeth, inward pressure being applied by a combination of weights and a constant pressure hydraulic ram, giving both flexibility and positive feed characteristics. A foot operated valve controls the opening of the feed rolls whose inward position is determined by a handwheel at the front of the machine.

A hand operated valve gives immediate and stepless control of the feed speed up to the maximum of 60m (200ft) per minute.

An efficient guard protects the feed rolls. A Rubber Covered Feed Roll can be supplied as optional equipment for bevel sawing and resawing planed stock. Other feed rolls available are a coarse type with wide, deep teeth and a hardened spiked type particularly suitable for gripping unsawn faces.

## Fence

The setting fence is rack and pinion operated with an opening of 355mm (14"). It is robustly built and easily operated by a large handwheel and locking handle.

The Multi-Roller Fence which has closely spaced rollers will cant up to 45° and has horizontal and vertical adjustments. The fence opening is easily read on an enlarged, rotating scale.

An electric Multi-Push Button Fence Setting System is an optional extra. This automated system gives 10 adjustable pre-set dimensions. Override buttons are also provided for any dimension not pre-set. With this system of control, the maximum opening is restricted to 305mm (12").

## Horizontal Table Rollers

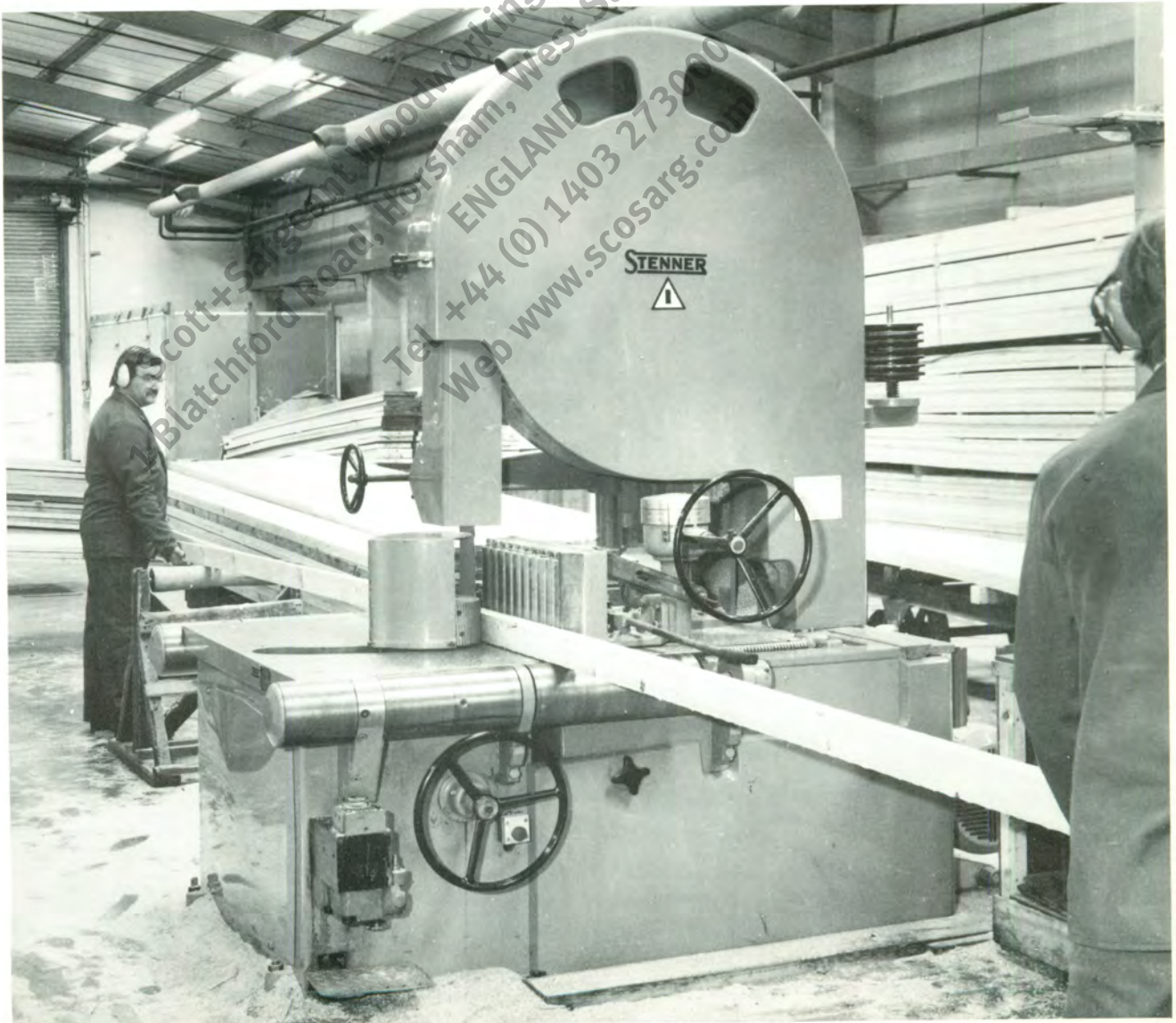
The horizontal rollers are 150mm (6") diameter and extend the full opening on the fence side and 50mm (2") beyond the table on the open side. The rollers at both infeed and outfeed are hydraulically powered and run in synchronism with the vertical feed rolls. The roller in front of the sawblade is movable sideways to permit saw changing. To facilitate the returning of timber, the outer rollers at both infeed and outfeed are idle.

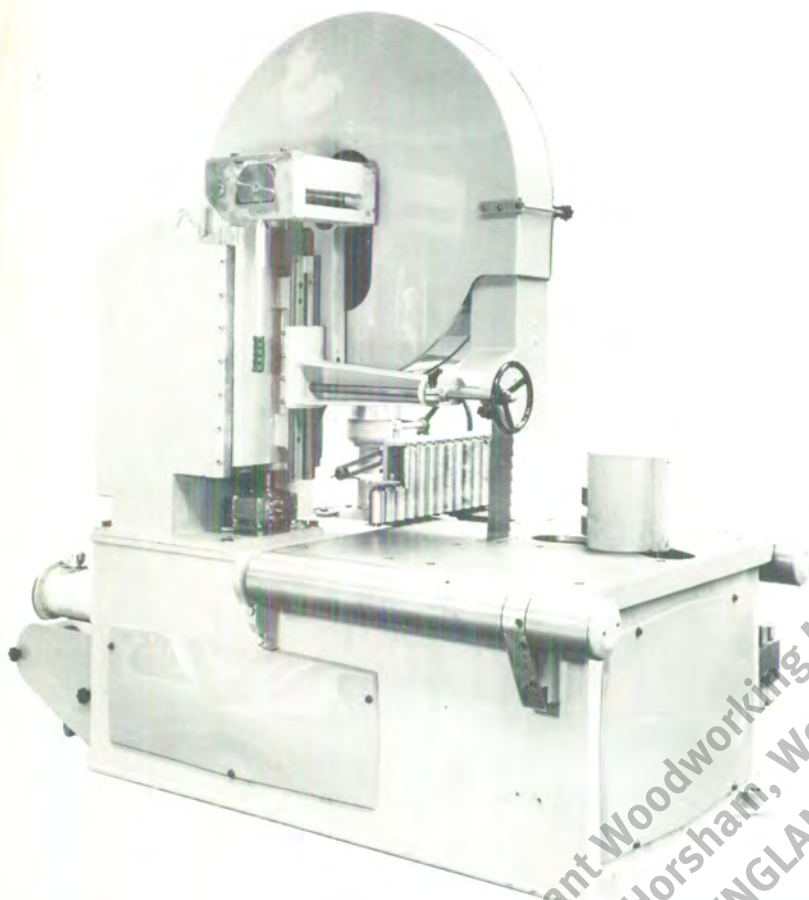
## Brake

A foot operated brake incorporated in the main drive mechanism is supplied as standard equipment.

## Tables

The tables are high grade, close grained castings accurately finished and have a working surface, 1.01m (3' .3¾") wide by 1.17m (3' .10") long.





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### PRINCIPAL DIMENSIONS & DATA

Diameter of saw pulleys.....	1050mm (42")
Width of saw pulley face.....	112mm (4 1/2")
Maximum width of saw.....	130mm (5")
Maximum length of saw.....	6700mm (22' 0")
Minimum length of saw.....	6500mm (21' 6")
Maximum height of top sawguide above table. (Maximum depth of cut depends on nature of the work)	550mm (21 1/2")
Maximum opening feed rolls to saw.....	300mm (11 3/4")
Maximum opening of fence to saw (Standard).....	355mm (14")
Maximum opening of fence to saw (with electric fence setting).....	305mm (12")
Table height from floor level.....	800mm (2' 7 1/2")
Overall height from floor level.....	2460mm (8' 1")
Overall width of machine (including drive).....	2460mm (8' 1")
Speed of saw pulleys r.p.m. for 40m/sec. (8000 f.p.m.) saw speed.....	738
Feed speeds.....	0-60 m.p.m. (0-200 f.p.m.)
Motor power range.....	18-30kW (25-40 HP)

### APPROXIMATE SHIPPING DIMENSIONS (WITH 22KW DRIVE)

Nett weight.....	3560 kgs (7850 lbs)
Gross weight.....	4130 kgs (9100 lbs)
Volume packed.....	11.36 cu.m. (401 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.