

RIP SAW SERIES

Heavy-Duty Straight-Line Rip Saw

Single-blade ripping unit with powered feed and electrical speed control, built for continuous width-cutting and edging of solid timber up to 80 mm thickness.

MODEL HE 500 R



/ Application & Use

The HE 500 R is a heavy-duty straight-line rip saw for accurate, high-output width-cutting of solid wood. The workpiece is carried by a powered feed against a rigid rip fence, so every board leaves the machine with two parallel, glue-ready edges at a constant cutting quality that does not depend on operator pressure.

Typical work: edging and squaring rough or planed boards, removing wane and defects, ripping stock to width for glued panels and glulam blanks, cutting components for windows, doors, stairs, furniture frames, flooring and packaging elements. Feed speed is set electrically between 3 and 26 m/min, which allows the operator to match the feed to species, thickness and blade type without stopping production.

/ Key Features

- 9 kW main motor on a rigid $\Phi 50.8$ mm spindle running at 2900 rpm for clean, burn-free cuts
- Accepts 255 mm or 355 mm saw blades, 3.2–5 mm blade thickness
- Cutting capacity up to 80 mm workpiece thickness
- Sawing width 250 mm to the left and 500 mm to the right of the blade
- Powered feed 3–26 m/min with electrical speed control
- Hold-down and side pressure units keep the board tight to the fence
- Massive 970 kg welded structure for vibration-free cutting
- Central lubrication unit and dust extraction outlet below the table

/ Raw Materials

- Softwood and hardwood boards, sawn or planed
- Solid wood strips and squared timber
- Glued laminated stock and finger-jointed blanks
- Workpiece thickness up to 80 mm
- Minimum workpiece length 250 mm

Working table 1750 x 860 mm. Table height and infeed support allow single-operator loading, or integration with a roller conveyor for line production.



OPERATOR SIDE — INFEED SUPPORT ROLLERS, HANDWHEEL HEIGHT ADJUSTMENT AND CONTROL PANEL

/ Structure and Configuration

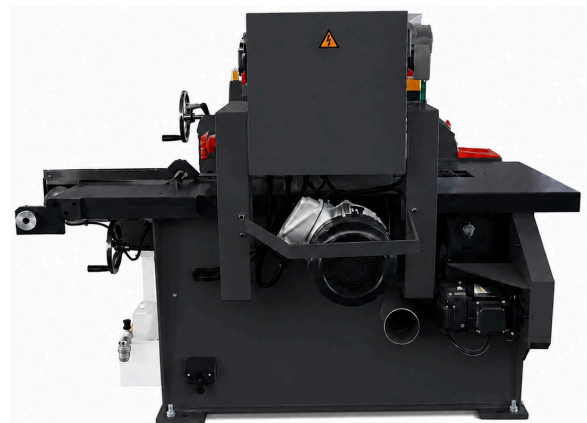
The machine is built around a closed welded base that carries the saw spindle, the feed drive and the pressure beam as one rigid unit, so cutting geometry stays stable under continuous load.

- 1 Welded machine base**
Closed, ribbed steel body, 970 kg total weight, with levelling feet; absorbs vibration and keeps the spindle aligned to the table.
- 2 Sawing unit**
Φ50.8 mm spindle, 2900 rpm, 9 kW main motor with belt drive; blade 255 or 355 mm, kerf 3.2–5 mm, vertical adjustment by handwheel.
- 3 Powered feed system**
0.75 kW feed motor driving the feed track and rollers; 3–26 m/min, electrical speed control, constant pressure over the full workpiece length.
- 4 Pressure beam**
Top hold-down beam with adjustable pressure units and side guides, set to workpiece thickness; prevents lifting and lateral drift during the cut.
- 5 Rip fence**
Ground fence with scale and fine setting; sawing width 250 mm left / 500 mm right of the blade, locked in position for repeat batches.
- 6 Working table**
1750 x 860 mm machined table with insert plate around the blade and extension wings for long-board support.
- 7 Lubrication and pneumatic unit**
Side-mounted reservoir with pressure gauge and filter-regulator group; feeds the guides and the pressure elements.
- 8 Electrical control**
Enclosed cabinet with front control panel, feed speed selector, motor protection and emergency stop; total installed power 9.75 kW.
- 9 Dust extraction**
Extraction hood under the table with outlet spigot for connection to the shop extraction system.
- 10 Safety equipment**
Anti-kickback fingers at the infeed, enclosed blade zone, guarded drive compartment and emergency stop within operator reach.

Feed speed is set by electrical speed control, from 3 to 26 m/min, and can be changed while the machine is running to suit species, thickness and blade type.



DRIVE SIDE — FEED MOTOR, BELT DRIVE AND PRESSURE BEAM

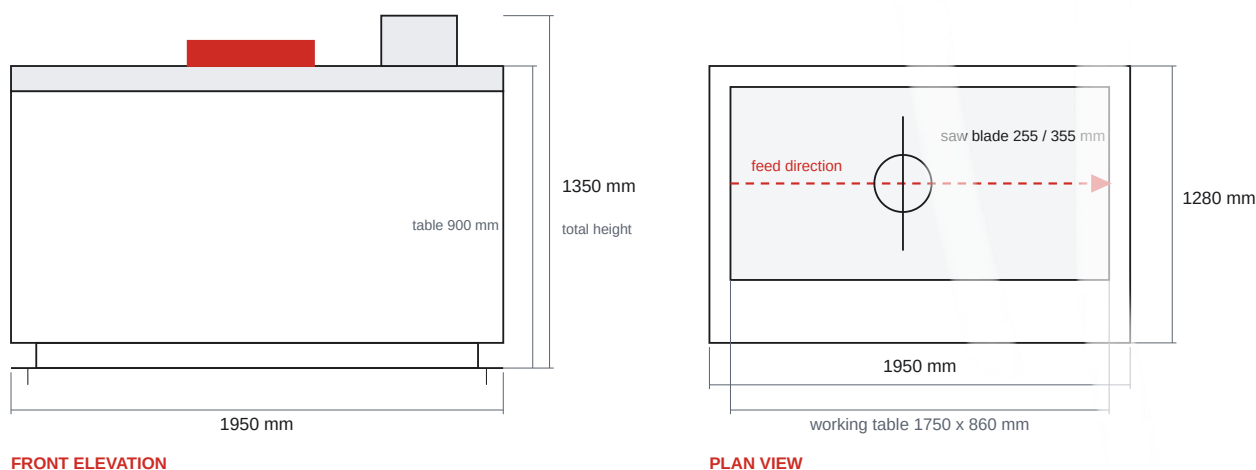


REAR VIEW — MAIN MOTOR, GUARDED DRIVE ZONE AND EXTRACTION OUTLET

/ Technical Data

MODEL	HE 500 R
Type	Heavy-duty straight-line rip saw, powered feed
Saw blade diameter	255 / 355 mm
Blade thickness	3.2 – 5 mm
Max. processing thickness	80 mm
Shortest processing length	250 mm
Sawing width	left 250 mm / right 500 mm
Spindle speed	2900 rpm
Spindle diameter	Φ50.8 mm
Feeding speed	3 – 26 m/min
Main motor power	9 kW
Feed motor power	0.75 kW
Total power	9.75 kW
Working desk size	1750 x 860 mm
Overall dimensions (L x W x H)	1950 x 1280 x 1350 mm
Machine weight	970 kg

/ Layout Diagram



OVERALL DIMENSIONS AND FLOOR FOOTPRINT — ALL VALUES IN MM, INDICATIVE FOR INSTALLATION PLANNING

SUPPLIER

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