HELEX | PROMACH

RIP SAW SERIES

Straight-Line Rip Saw

Single-blade rip saw with powered feed
for cutting solid wood to width

Single-blade straight-line rip saw with powered feed and electrical speed control, for width-cutting and edging of solid wood up to 80 mm thick.

MODEL HE 500 R



HE 500 R — straight-line rip saw with hold-down beam and rip fence

/ Application & Use

The HE 500 R is a straight-line rip saw with one saw blade and powered feed, for cutting solid wood to width. Typical work includes edging and squaring sawn or planed boards, removing wane and defects, ripping stock to width for glued panels and laminated blanks, and cutting components for windows, doors, stairs, furniture frames, flooring and packaging.

The powered feed carries the workpiece against the rip fence while the hold-down beam, the side pressure units and the side guides keep it in position. The feed speed is set by electrical speed control between 3 and 26 m/min and can be changed while the machine is running, to suit species, thickness and blade type.

/ Key Features

- 9 kW main motor, Ø 50.8 mm spindle, 2900 rpm
- Saw blades Ø 255 or 355 mm
- Workpiece thickness up to 80 mm, minimum length 250 mm
- Sawing width 250 mm left / 500 mm right of the blade
- Powered feed 3–26 m/min with electrical speed control
- Hold-down beam, side pressure units and side guides
- 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

Worktable 1750 x 860 mm with insert plate around the blade and extension wings for supporting long boards.



Infeed side — support rollers, handwheel and control panel

/ Structure and Configuration

The welded base carries the saw spindle, the feed drive and the hold-down beam as one unit.

1 Machine base
Closed, ribbed welded steel body with levelling feet; machine weight 970 kg.

2 Sawing unit
Ø 50.8 mm spindle, 2900 rpm, 9 kW main motor with belt drive; saw blades Ø 255 or 355 mm; height adjustment by handwheel.

3 Powered feed
0.75 kW feed motor; 3–26 m/min, electrical speed control, adjustable while the machine is running.

4 Hold-down and guidance
Upper hold-down beam with adjustable hold-down units, side pressure units and side guides, set to the workpiece thickness.

5 Rip fence
Ground guide face, graduated scale and fine adjustment; sawing width 250 mm left / 500 mm right of the blade; lockable for repeat batches.

6 Worktable
1750 x 860 mm machined table with insert plate around the blade and extension wings for long boards.

7 Lubrication and pneumatic unit
Side-mounted reservoir with pressure gauge and filter-regulator group, supplying 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 for connection to the workshop extraction system.

10 Safety equipment
Anti-kickback fingers at the infeed, enclosed blade zone, guarded drive compartment and emergency stop.



Drive side — feed motor and hold-down beam



Rear view — main motor and extraction outlet

/ Technical Data

Model	HE 500 R
Saw type	Straight-line rip saw
Maximum workpiece thickness	80 mm
Cutting width	250 mm left / 500 mm right of the blade
Minimum workpiece length	250 mm
Saw blade dimensions	Ø 255 / 355 mm
Number of saw blades	1
Saw arbor diameter	Ø 50.8 mm
Saw spindle speed	2900 rpm
Main motor power	9 kW
Saw unit height adjustment	manually, by handwheel
Feed system	Powered feed
Feed speed	3–26 m/min; electrical speed control
Feed motor power	0.75 kW
Workpiece hold-down and guidance	upper hold-down beam with adjustable hold-down units; side pressure units and side guides
Rip fence	rip fence with a ground guide face, graduated scale and fine adjustment
Worktable: dimensions / height	1750 x 860 mm
Anti-kickback device	anti-kickback fingers at the infeed
Lubrication system	centralised lubrication system
Control system	front control panel with feed speed selector and emergency stop button
Dust extraction connections	connection below the table
Total installed power	9.75 kW
Overall dimensions (L × W × H)	1950 x 1280 x 1350 mm
Machine weight	970 kg

The supplied configuration and installation requirements are specified in the quotation. Technical changes reserved.

Supplier

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