

# FISSURE

**boss**  
MACHINES



# VERTICAL RESAW

Backed by over 30 years of woodworking machinery expertise, our solutions are designed and configured to deliver consistent results and maximize efficiency. The end result is higher throughput, reduced rework, and stronger margins—putting more money back into your business.

**Built for Quality. Engineered for ROI.**

[bossmachines.com](https://bossmachines.com)

## Key features and applications

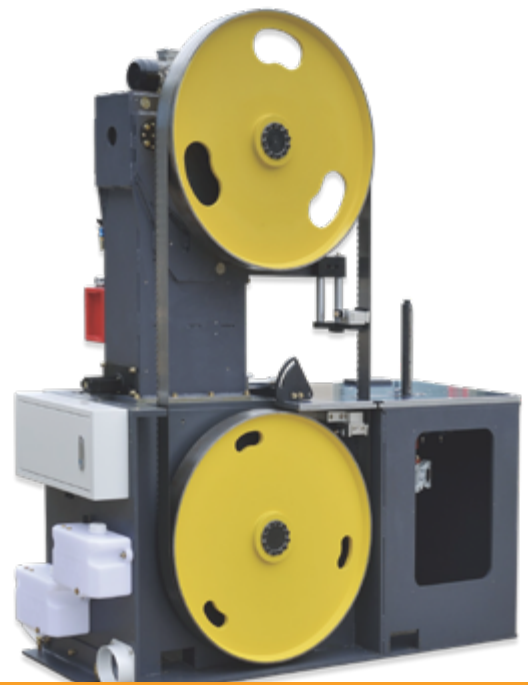
The BOSS Fissure Vertical Resaw is engineered to deliver precision resawing, exceptional reliability, and high production output in a compact footprint. Built for demanding sawmills, secondary wood manufacturers, millwork shops, flooring producers, and component manufacturers, the Fissure combines industrial-grade construction with advanced controls to maximize productivity while minimizing floor space.

Designed around a heavy-duty steel frame and precision-machined components, the Fissure features a full-width cast iron work table, precision multi-roller fence with digital positioning, and replaceable pressure guides that maintain accurate, repeatable cuts throughout extended production runs. Pneumatic blade tensioning, automated self-correcting blade system, intuitive touchscreen controls, and a **VFD** Variable Frequency Drive delivering infinitely variable feed speeds allow operators to quickly optimize performance for changing material sizes and production requirements.



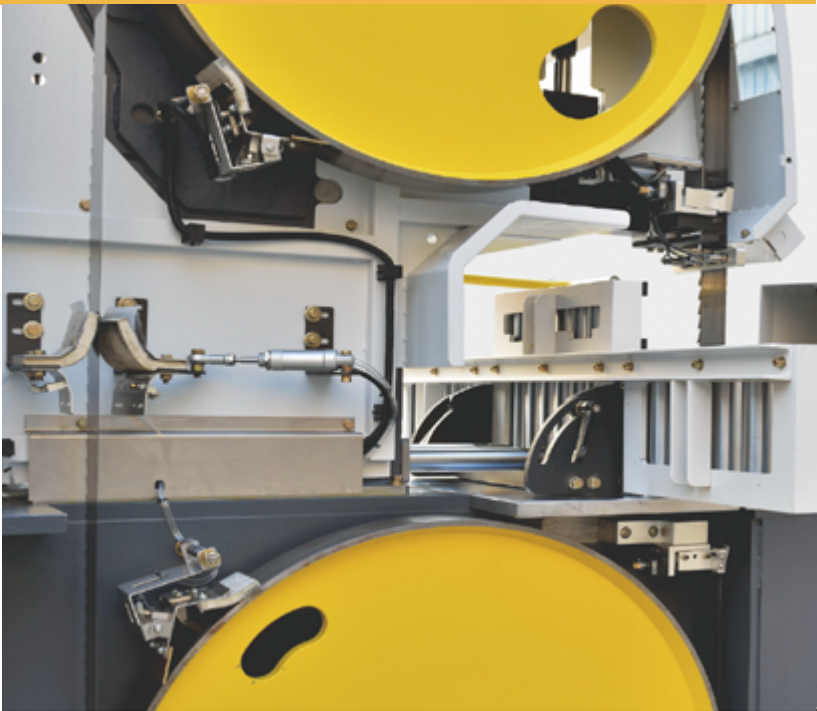
## Heavy-duty direct drive

Unlike conventional designs where bearings are mounted within the drive wheel, the Fissure's drive wheel is supported by precision bearings mounted directly on the drive shaft. This superior configuration increases structural rigidity, reduces deflection under load, and delivers exceptional cutting stability and long-term reliability.



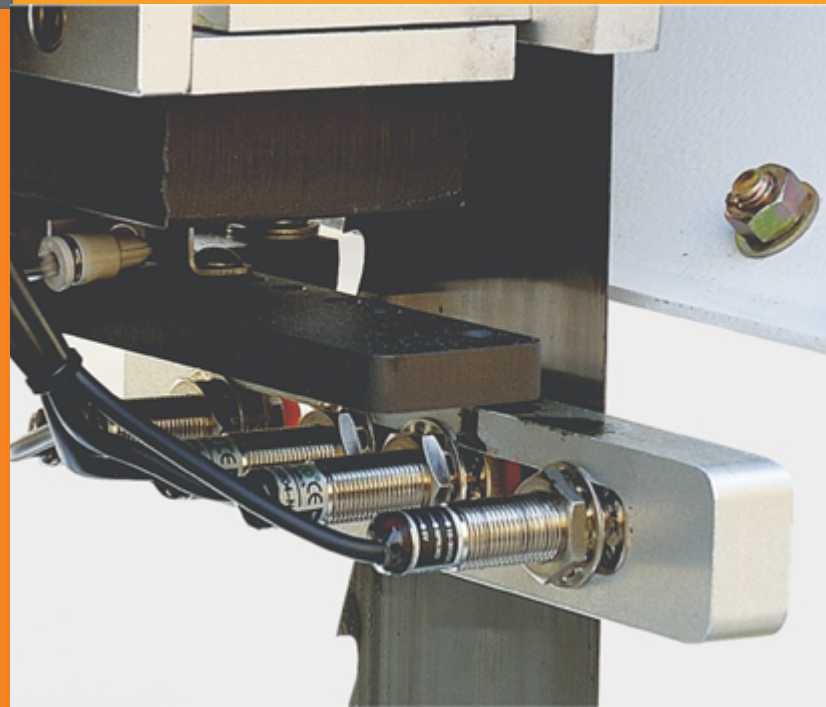
## Automatic multi-point blade cleaning

Multi-point cleaning stations automatically remove sawdust and debris from the blade and band wheels during operation, preventing buildup that can affect cutting accuracy and blade performance. The result is improved blade tracking, longer component life, and reliable, uninterrupted production.



## Automatic self correcting blade system

Precision sensors continuously monitor blade position while high-speed servo motors automatically maintain optimal blade alignment throughout operation. Unique to the Fissure Resaw, this self-correcting system delivers exceptional cutting accuracy, increased productivity, and reduced operator adjustment.



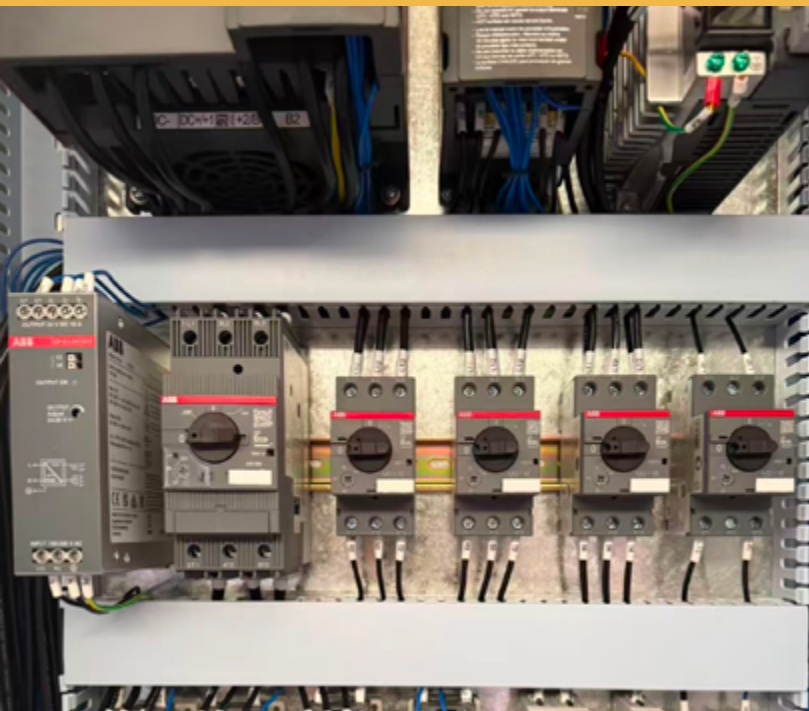
## Easily adjustable tilt angle

An adjustable tilting side grid that can be easily positioned from 0–45 degrees to accommodate a wide range of material profiles and cutting applications. This versatile adjustment allows operators to securely position irregular, angled, or specialty-shaped materials while maintaining precise blade alignment and consistent feed pressure. The result is greater flexibility, improved cutting accuracy, and the ability to process a broader range of materials with exceptional control.



## ABB electrical components

Recognized globally for their reliability, precision, and industrial performance. Advanced ABB controls and power components provide stable machine operation, accurate system monitoring, and enhanced protection of critical electrical systems. This ensures dependable performance in demanding production environments, reduces downtime, simplifies serviceability, and delivers long-term reliability with components supported by a worldwide service network.

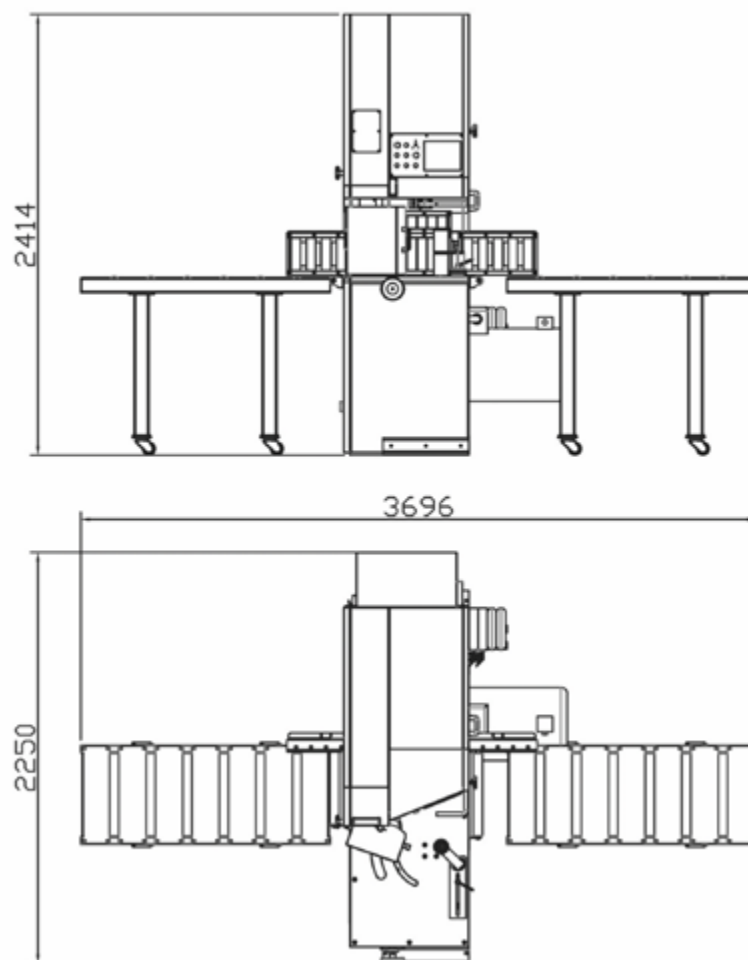


## Automatic hydraulic pneumatic blade tensioning

An advanced hydraulic-pneumatic tensioning system continuously monitors and automatically adjusts blade tension to maintain optimal cutting performance. By compensating for changes in blade load and operating conditions, the system delivers consistent cutting accuracy, improved blade life, and reduced operator intervention.



# Machine layout and dimensions



## Technical Specifications

|                                                         |                            |                         |
|---------------------------------------------------------|----------------------------|-------------------------|
| Maximum working height                                  | 370 mm                     | 14.6 in.                |
| Minimum working thickness                               | 2-3 mm                     | 0.08-0.12 in.           |
| Maximum distance between feeding wheel and leaning grid | 510 mm                     | 20.1 in.                |
| Maximum distance between feeding wheel and saw belt     | 210 mm                     | 8.3 in.                 |
| Maximum distance between saw band and leaning grid      | 300 mm                     | 11.8 in.                |
| Tilting angle against grid                              | 0-45°                      | 0-45°                   |
| Maximum feeding speed                                   | 0-40 m/min                 | 0-131 ft/min            |
| Saw wheel diameter                                      | 916 mm                     | 36.1 in.                |
| Saw wheel width                                         | 80 / 90 mm                 | 3.15 / 3.54 in.         |
| Saw blade size                                          | 5700 x 80 mm               | 224.4 x 3.15 in.        |
| Blade tension                                           | 125-140 kg/cm <sup>2</sup> | 1,778-1,991 PSI         |
| Main saw motor power                                    | 15 kW                      | 20.1 HP                 |
| Feeding motor power                                     | 0.75 / 1.1 kW              | 1.0 / 1.5 HP            |
| Saw wheel swing angle motor power                       | 0.37 kW                    | 0.5 HP                  |
| Automatic feeder motor power (optional)                 | 0.75 kW                    | 1.0 HP                  |
| Total connected power                                   | 17 kW                      | 22.8 HP                 |
| Voltage                                                 | 380V                       | 380V                    |
| Air pressure                                            | 0.7 MPa                    | 101 PSI                 |
| Overall dimensions                                      | 3.7 x 2.25 x 2.4 m         | 145.5 x 88.6 x 95.0 in. |
| Weight                                                  | 3400 kg                    | 7,496 lbs.              |



## ATACAMA

### Widebelt Sanders

Atacama our flagship sander line, available in 1-4 heads, 1000-1600mm widths and veneer capable configuration available



## EROSION

### Brush Sanders

Erosion brush sanders, 1100-1300mm widths, multi-head finishing, texturing, denibbing solutions



## KALAHARI

### Top & Bottom Sanders

Kalahari sanders available in 1-3 heads, 1000-1300mm widths, top-bottom double-sided, single-pass processing configurations



## GOBI

### Planer Sanders

Planer sanders, 2-3 heads, 1000-1300mm widths, combined planing, calibration, and sanding



## SIROCCO

### Wirebrush Machines

Brush sanders, 2, 3 and 6 head, 600-1300mm widths, texturing and grain enhancement



## CSD 650

### Circle Saw Destressing Machines

The SOLO and DUO Circle Saw Distressing Machines are part of a surface enhancement range including embossing and hand-scrape systems.



## MAGNITUDE

### Moulders

High-precision profiling, heavy-duty production, and intelligent automated setup in solid wood and engineered components



## SEISMIC

### Moulders

Standard profiling and cube (4-sided planer) configuration for high-precision moulding, surfacing, and full-section timber processing



## TIMBER OX

### Double-sider Planers

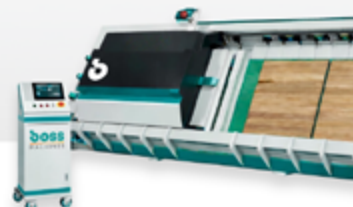
High-efficiency two-face surfacing, precision thicknessing, and industrial timber preparation in solid wood production



## FISSURE

### Vertical Resaw

High-speed, high-precision vertical bandsaw designed for advanced solid wood processing and veneer production



## EPIGLUE

### RF Press

High-efficiency vertical high-frequency press for fast, precise bonding in solid and engineered wood production.



## CYCLONE

### Packaging Equipment

High-performance packaging machine series for woodworking manufacturers, delivering fast, consistent end-of-line wrapping for panels, doors, furniture



More money back into your operation. Greater throughput, reduced waste, stronger margins — delivered consistently, shift after shift.

Backed by 30+ years of machinery expertise and a team committed to keeping you running. High-wear parts available for next-day shipping — so you get what you need, when you need it.



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