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# MAGNITUDE

**boss**  
MACHINES



# 6018W MOULDER

Designed and configured to deliver consistent, high-quality output at production speeds that maximize efficiency. The result is greater throughput, reduced waste, and stronger margins — putting more money back into your operation.

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

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

## YJF FC300 Certified Grey Cast Iron Frame

The Magnitude is built on an FC300 certified grey cast iron frame — the same grade used in precision machine tool manufacturing. Specifically formulated to absorb temperature fluctuation and maximize vibration dampening, this foundation delivers consistent, accurate mouldings pass after pass. The result is reduced wear on machine components, extended service life, and the dimensional reliability that high-volume production demands.



## BOSS ULTRA-DRIVE Feeding Works™

The MAGNITUDE feed system features 8 driven top rollers and 3 driven bottom rollers powered by a heavy-duty Cardan shaft — no chains, no maintenance headaches. An infeed side pressure roller automatically positions variable-width stock against the fence before the first bottom spindle, ensuring consistent material control without operator intervention. Driven by an IE3 high-efficiency feed motor with inverter drive, this system feeds rough hardwood and softwood with authority at speeds up to 40m/min.

## BOSS SPS™ Servo Positioning System + OPTITRON™ Operating System

The BOSS OPTITRON™ operating system pairs a 15" industrial touchscreen with a handheld remote for precise CNC spindle positioning, giving operators full machine control from anywhere on the floor. Programmable hot keys store frequently used setups for instant recall, while micro-adjustment capability allows experienced operators to compensate for tooling fatigue mid-run — without stopping production. Changeover downtime is one of the biggest profit leaks in any moulding operation, and OPTITRON is engineered to close it.



## High-Performance Spindles with 2+2 SKF Bearing Assembly

BOSS high-performance spindles feature a 2+2 SKF bearing assembly, hardened 4140 tool steel, and dynamically balanced spindle and pulley for unrivaled finish quality and dimensional accuracy under continuous load. Backed by the BOSS Assurance 24-hour spindle exchange program, your investment stays protected and your production stays running.



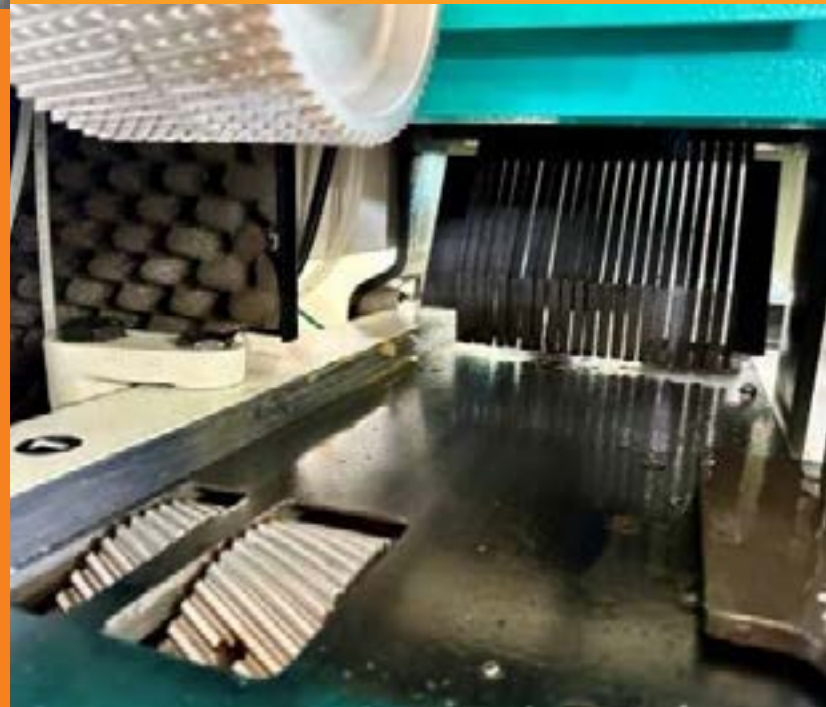
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## EZ-BOSS™ Quick Set Package

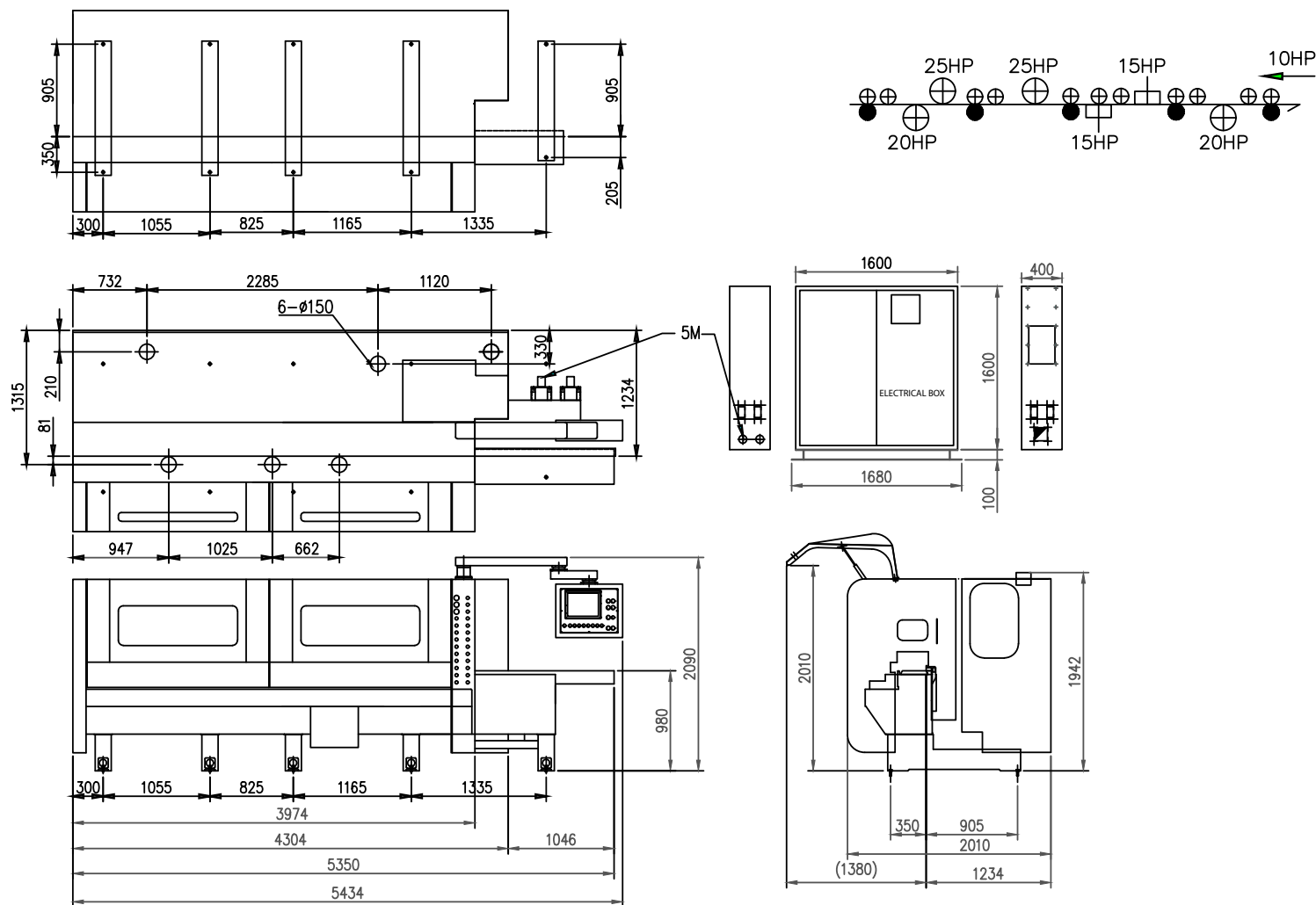
The EZ-BOSS™ Quick Set Package turns costly changeover time into a competitive advantage. Tool-free adjustments, integrated measurement scales, and visible positioning markers eliminate guesswork, while a quick-adjust fence after the right vertical spindle matches tool diameter changes in seconds — improving both setup speed and surface finish quality simultaneously.

## BOSS BODYGUARD™ Automatic Safety System

The patent-pending BOSS BODYGUARD™ Automatic Safety System removes operator compliance from the safety equation entirely. Tamper-proof pneumatic anti-kickback fingers deploy automatically and cannot be bypassed — eliminating liability exposure and ensuring safety mechanisms remain fully functional at full production speed.



# Layout and dimesnions



## Technical Specifications

|                                    |              |                      |
|------------------------------------|--------------|----------------------|
| <b>Capacity:</b>                   |              |                      |
| Min-max working width              | 20mm - 305mm | 3/4" - 12"           |
| Min-max working thickness          | 7mm - 160mm  | 1/4" - 6 1/2"        |
| Min working length, piece by piece | 900mm        | 35 1/2"              |
| Min working length, end to end*    | 300mm        | 12"                  |
| Feed Speed                         | 6-40 m/min.  | 40 to 120' feet/min. |
| Feed Motor                         | 7.5 kw       | 10HP                 |

|                      |                                |
|----------------------|--------------------------------|
| <b>General:</b>      |                                |
| Machine base         | Grey Cast Iron FC300 Certified |
| Infeed table surface | chrome (0.3mm thick)           |
| Main table surface   | chrome (0.3mm thick)           |
| Sound enclosure      | Premium sound enclosure        |
| Machine enclosure    | Light PLUS package             |
| Spindle speed**      | 6000 RPM 8000 RPM (Optional)   |

|                                           |               |               |
|-------------------------------------------|---------------|---------------|
| <b>Spindles:</b>                          |               |               |
| Tool cutting circles, 1st bottom spindle  | 110mm - 168mm | 4.92" - 7.87" |
| Tool cutting circles, vertical spindles   | 110 - 250mm   | 5.51" - 9.84" |
| Tool cutting circles, horizontal spindles | 110 - 200mm   | 5.51" - 9.84" |
| Tool cutting circles, horizontal spindles | 110 - 305mm   | 5.51" - 12"   |
| Adjustment range of vertical spindles     | 60mm          | 2 3/8"        |
| Adjustment range of horizontal spindles   | 20mm          | 13/16"        |



## 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 Destressing 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

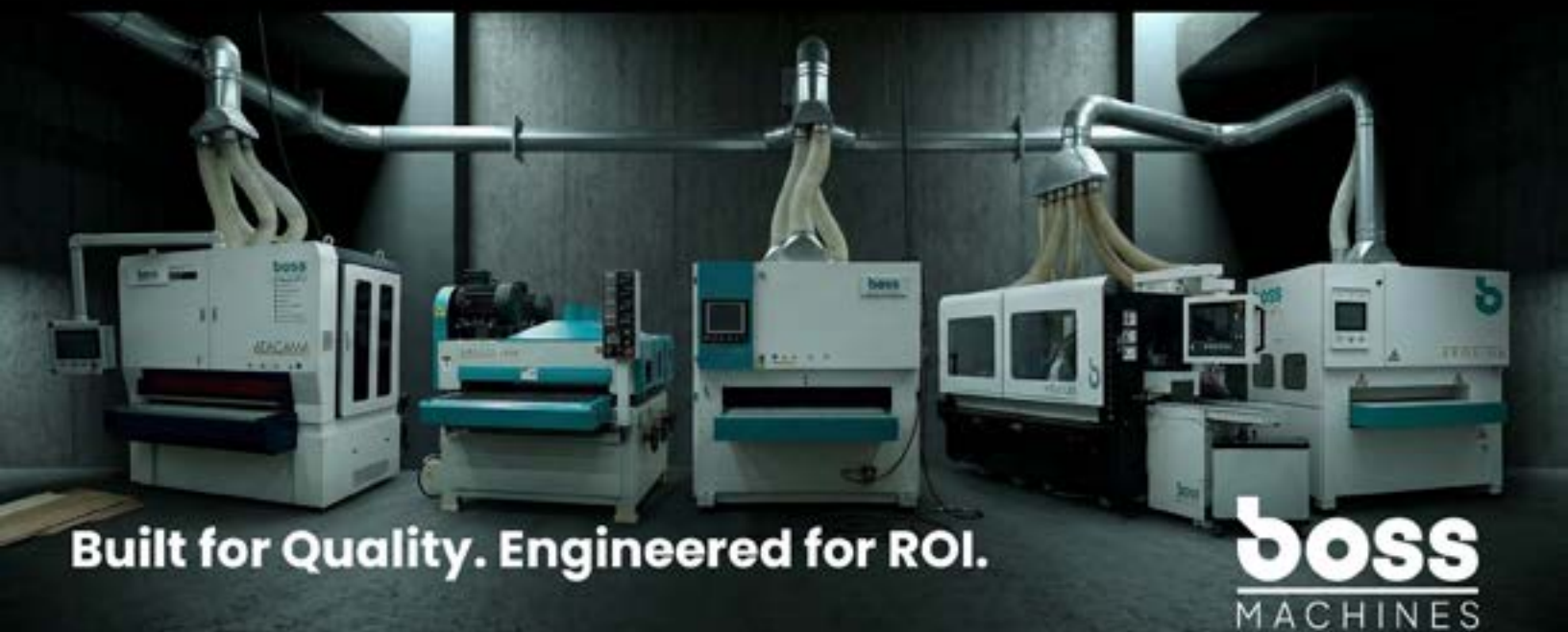
### Packaging Equipment

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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