
ATACAMA

boss
MACHINES



4H WIDEBELT SANDER

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

Your go to for veneer and sealer sanding

The BOSS Atacama Wide Belt Sander with Electromagnetic Sanding Pad (ESP) system is essential for producing high-gloss boards and high-class furniture including wooden doors and cabinets.

The workpiece's shape and size are detected precisely, and the controller processes contour data quickly to deliver accurate pressure to each segment of the ESP pressure beam. This mechanical detecting system — unaffected by workpiece color — combined with the ESP system ensures uniform sanding across the entire surface with no under-sanding, over-sanding, or sanding marks. High-precision sanding machine with 3 pcs electromagnetic sanding pad mainly for making high-class wooden furniture or high gloss boards.

High-precision sanding with 3 electromagnetic sanding pads, engineered for high-class wooden furniture and high-gloss board production.

Third Roller

The BOSS Atacama's Electromagnetic Sanding Pad (ESP) System delivers variable, adjustable, and fully controllable pressure to each individual segment of the electromagnetic pressure beam — automatically adapting to the surface condition of every workpiece in real time. Staggered segments ensure smooth, continuous movement across the sanding zone, eliminating sanding marks for a flawless finish. Unlike conventional pneumatic segment systems, the ESP system is easier to maintain with no adhesion or contamination issues, reducing downtime and keeping your production running at peak performance.

1. First working unit

Cross Belt Sanding Pad w/ ESP (Electromagnetic Sanding Pad) and inner chevron belt

2. Second working unit

Longitudinal Sanding Pad with Electronic Sanding Pad system

3. Third working unit

Superfinishing Sanding Pad (600 grit) with Electronic Sanding Pad system

4. Fourth working unit

Brush Sanding Unit



Supercharged consistency with the Delta AS300

Engineered for precision and speed, this high-performance controller takes the guesswork out of industrial woodworking finishing. Its ultra-fast 32-bit SoC processor delivers flawless, real-time control over the conveyor feed, cross rollers, disc rotation, and longitudinal brush oscillation.



ABB IE3 Motors Drive Down Energy Costs and Carbon Emissions

ABB IE3 Premium Efficiency Motors maximizes operational uptime, reduces electricity overhead, and ensures consistent torque for a flawless finish. Featuring robust IP55 dust protection and Class F insulation, these motors are engineered to handle continuous sanding loads while slashing energy costs.

POWER THAT DRIVES PRECISION

Equipped with a high-quality gearbox and inverter motor, The Erosion line of Brush Sanders deliver smooth, powerful, and ultra-precise performance under continuous industrial workloads. Reduced vibration, optimized speed control, and long-term reliability ensure maximum productivity and consistent results every shift.



Rotary Air Jet Cleaning System

High-velocity rotary air blowers remove residual sanding dust from the workpiece surface before it exits the machine, ensuring a cleaner panel, reducing contamination in downstream finishing processes, and helping deliver a superior final finish.



GripMax™ Conveyor Technology

A high-friction industrial conveyor belt system that securely controls workpieces through the sanding zone, reducing slippage, improving finish consistency, and providing exceptional belt longevity in multi-shift production environments.

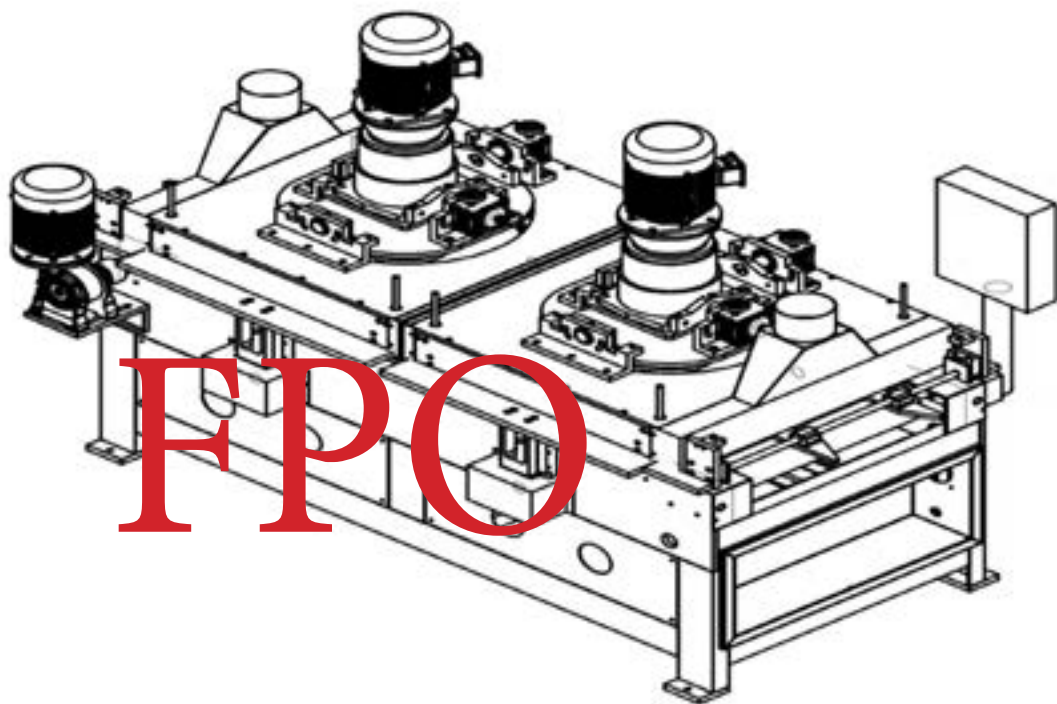


Workpiece Detecting System

The workpiece's shape and size are detected precisely, with the controller rapidly processing contour data to deliver accurate pressure to each segment of the ESP pressure beam.



Sander layout and dimesnions



Technical Specifications

Working Width	40 – 1350 mm	1.6" – 53"
Working Thickness	0.25 – 100 mm	0.01" – 3.9"
Working Table Height	900 mm	35.4"
Minimum Working Length	490 mm	19.3"
Electromagnetic Pressure Blocks	66 pcs	
Abrasive Belt Grit	#400, #400, #600 #400, #400, #600	
Polishing Roller Grit	#1200, #1500 #1200, #1500	
Feeding Speed	0 – 19.2 m/min (Inverter)	0 – 63 ft/min (Inverter)
Cross Belt Speed	Max. 14 m/min (Inverter)	Max. 46 ft/min (Inverter)
Longitudinal Belt Speed	Max. 13.1 m/min (Inverter)	Max. 43 ft/min (Inverter)
Longitudinal Belt Speed (Pressure Segment Belt)	Max. 13.1 m/min (Inverter)	Max. 43 ft/min (Inverter)
Cross Belt Size	150 x 5000 mm	5.9" x 197"
Cross Pressure Segment Belt Size	140 x 4545 mm	5.5" x 179"
Longitudinal Belt Size	1370 x 2743 mm	54" x 108"
Longitudinal Pressure Segment Belt Size	1397 x 1905 mm	55" x 75"
Feeding Motor	4.0 kW (Inverter)	5.4 HP
Lifting Motor	1.1 kW, 4P	1.5 HP, 4P
Brush Roller Motors	0.27 kW x 2, 6P	0.36 HP x 2, 6P
Total Motor Power	55.2 kW	74 HP
Working Pressure	0.4 – 0.8 MPa	58 – 116 psi
Compressed Air Consumption	< 1.0 m³/min	< 35 CFM
Dust Collection Air Velocity	> 30 m/s	> 98 ft/s
Dust Outlet Diameter	Ø150 mm x 12	Ø5.9" x 12
Vacuum Fan Outlet Diameter	Ø150 mm x 1	Ø5.9" x 1
Machine Dimensions (L x W x H)	4445 x 2032 x 2286 mm	175" x 80" x 90"
Machine Weight	9,980 kg	22,000 lbs



ATACAMA

Widebelt Sanders

Atacama our flagship sander line, available in 1-4 heads, 1000-1800mm widths and veneer capable configuration available



EROSION

Brush Sanders

Erosion brush sanders, 1100-1300mm widths, multi-head finishing, texturing, deburring 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, 400-1300mm widths, texturing and grain enhancement



CSD 650

Circle Saw Destressing Machines

The 60LO and 61LO 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-Slider 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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