

KALAHARI

boss
MACHINES



WIDEBELT SANDER

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

Key features and applications

The BOSS Kalahari Wide Belt Sander is built for manufacturers who demand precision, reliability, and long-term performance. Its heavy-duty steel frame minimizes distortion for exceptional sanding accuracy, while the German OPTIBELT™ triangular feed belt, SKF bearings, ABB electrical components, and dynamically balanced rollers ensure smooth, vibration-free operation and extended machine life.

Designed to maximize productivity, the Kalahari features independent pressure control, tower-style hold-down rollers for superior workpiece stability, motorized air jet belt cleaning and cooling, and an automatic belt braking system that helps prevent abrasive damage during tracking issues or power loss. A precision-ground feed table and variable feed speeds from 6–22 m/min (20–72 ft/min) provide outstanding finish quality across a wide range of solid wood and panel applications.

This the 3-head Kalahari, available in 1100mm (43") and 1350mm (53") delivers the performance, durability, and consistency required for demanding single or multi-shift production environments.

A 2-head configuration is also available in 700 mm (27") and 1100 mm (43") working widths.



Featured units:

First Working Unit

The 240 mm (9.4") steel contact roller features helicoidal cooling grooves to reduce heat buildup and extend abrasive life. Complete with automatic belt tensioning, electronic belt oscillation, integrated dust extraction, and oscillating air jet belt cleaning, the system delivers consistent sanding performance, improved finish quality, and reduced maintenance.

Second Working Unit

Complete with automatic belt tensioning, electronic belt oscillation, integrated dust extraction, and oscillating air jet belt cleaning, the system delivers consistent sanding performance, improved finish quality, and reduced maintenance. The second working unit roller is rubber with shore 85.

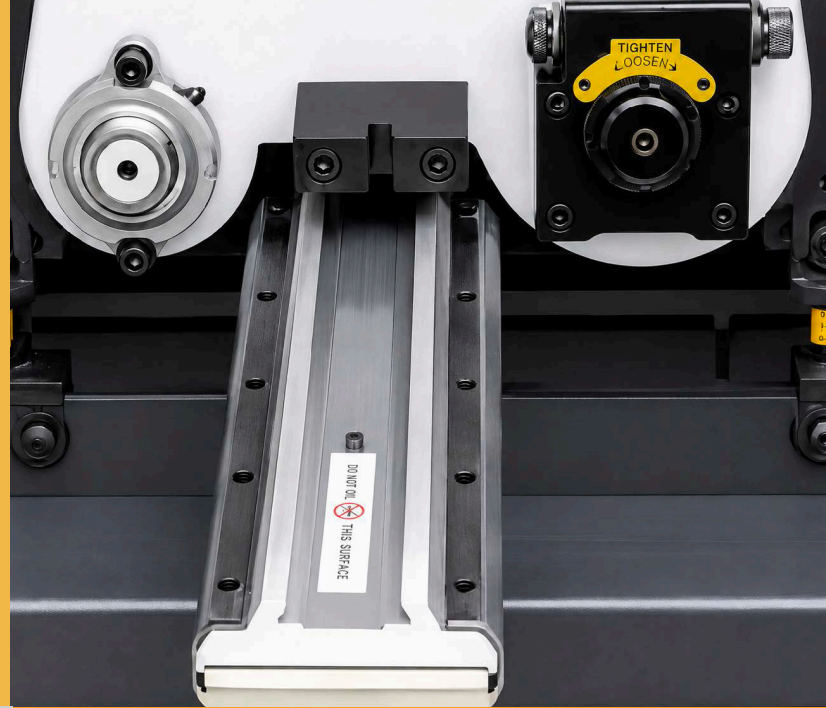
Third Working Unit

The 180 mm (7.1") optional combination roller and adjustable sanding pad delivers exceptional versatility for intermediate and finish sanding applications. Complete with automatic belt tensioning, electronic belt oscillation, oscillating air jet belt cleaning, integrated dust extraction, and built-in safety systems, it provides consistent surface finishes, extended abrasive life, and reliable production performance.



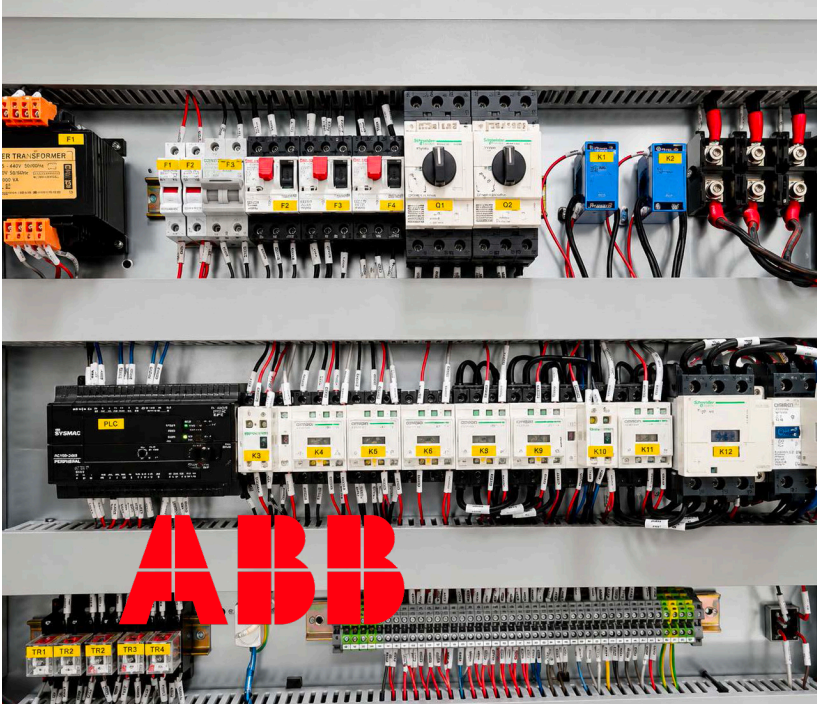
Wide Sanding Pad for Superior Finishing

The wider sanding pad is specially designed for veneer and solid wood panels, providing improved contact coverage and consistent pressure distribution for a superior surface finish. Ideal for high-quality finishing applications, it delivers uniform sanding results while reducing visible sanding marks and improving overall panel quality.



Standard ABB Electrical Componentsry (UL and CSA Approved)

The electrical cabinet, mounted at the front of the machine provides convenient access and simplified maintenance while housing the machine's essential electrical components, including the power supply, internal transformer, contactors, circuit breakers, and PLC control system. Built according to CE safety standards, the integrated electrical system ensures reliable operation, enhanced protection, and efficient troubleshooting for consistent machine performance.

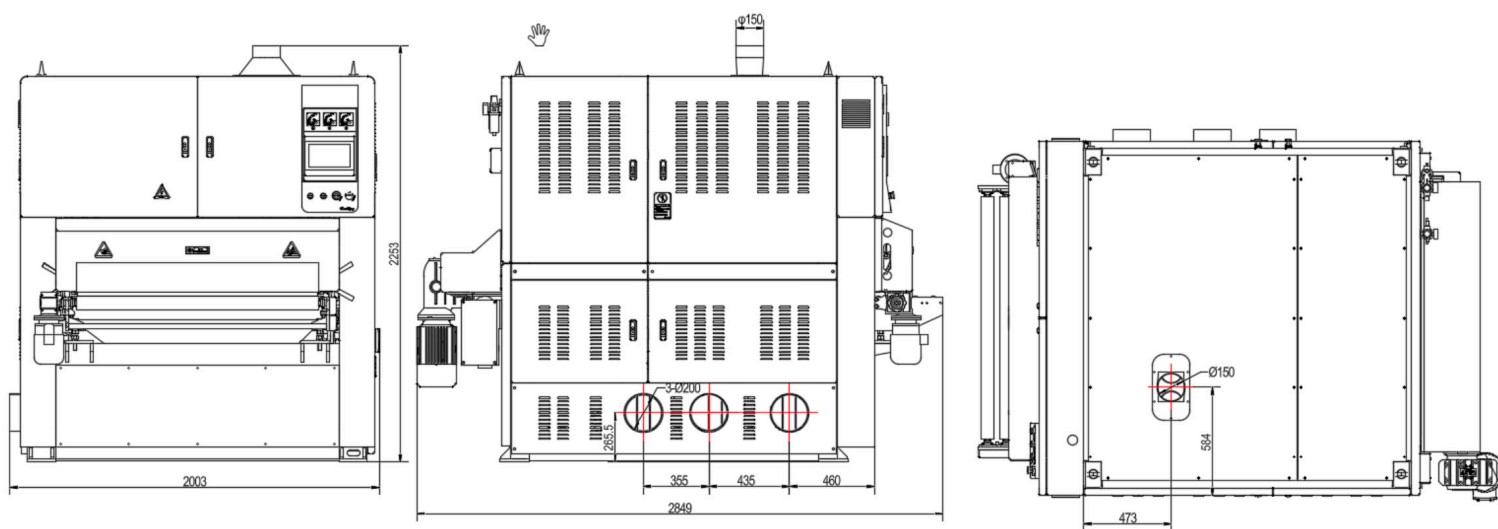


Air Jet Abrasive Belt Cleaning & Cooling System

The integrated air jet blower system continuously cleans and cools the abrasive belt during operation, removing dust buildup while reducing heat generation. This helps extend abrasive belt life, maintain consistent sanding performance, and improve finish quality and precision throughout demanding production applications.



Machine layout and dimensions



Technical Specifications

MODEL

Working Width
Working Thickness
Minimum Working Length
Feeding Speed
First Belt Speed
Second Belt Speed
Third Belt Speed
Sanding Belt Size
Conveyor Size
Total Power
First Belt Motor
Second Belt Motor
Third Belt Motor
Lift & Decline Table Motor
Brush Motor
Feeding Motor
Working Pressure
Compressed Air Consumption
Overall Dimensions

Weight

KALAHARI 3 HEAD 1100R-R-RC

40–1350mm (1.5–53")
3 - 150 mm (0.12" - 5.9")
460 mm (18.1")
0–19 m/min (0–62 ft/min) Variable
22 m/s (72 ft/s)
22 m/s (72 ft/s)
16 m/s (52 ft/s)
1130 x 2620 mm (44.5" x 103.1")
1110 x 4700 mm (43.7" x 185")
60.2 kW (80.7 HP)
22 kW (29.5 HP)
18.5 kW (24.8 HP)
15 kW (20.1 HP)
0.37 kW (0.5 HP)
0.25 kW (0.34 HP)
4 kW (5.4 HP) Variable
0.4 - 0.8 MPa (58 - 116 PSI)
1.5 m³/min (53 CFM)
2650 x 1750 x 2300 mm
(104.3" x 68.9" x 90.2")
4800 kg (10,582 lbs)

KALAHARI 3 HEAD 1350R-R-RC

40–1350mm (1.5–53")
3 - 150 mm (0.12" - 5.9")
460 mm (18.1")
0–19 m/min (0–62 ft/min) Variable
22 m/s (72 ft/s)
22 m/s (72 ft/s)
16 m/s (52 ft/s)
1380 x 2620 mm (54.3" x 103.1")
1360 x 4700 mm (53.5" x 185")
60.2 kW (80.7 HP)
22 kW (29.5 HP)
18.5 kW (24.8 HP)
15 kW (20.1 HP)
0.37 kW (0.5 HP)
0.25 kW (0.34 HP)
4 kW (5.4 HP) Variable
0.4 - 0.8 MPa (58 - 116 PSI)
1.5 m³/min (53 CFM)
2650 x 2000 x 2300 mm
(104.3" x 78.7" x 90.2")
5200 kg (11,464 lbs)



ATACAMA

Widebelt Sanders

Available in 1-5 heads 1000-1600mm widths, intuitive interface, constant pass-line, variety of finishing units for veneer, primer, and high gloss.



EROSION

Denibbing Brush Sanders

Erosion Brush Sanders, available in 1100-1300mm widths, multi-head finishing, denibbing solutions.



KALAHARI

Top & Bottom Sanders

Kalahari Sanders available in 1-3 heads, 1000-1350mm widths, top-bottom double-sided, single-pass processing configurations.



GOBI

Planer Sanders

Gobi Planer Sanders, featured in 2-3 heads, 1000-1300mm widths, combined planing, calibration, and sanding.



SIROCCO

Wirebrush Machines

Sirocco Wirebrush Machines available in 2, 3 and 6 heads, in 600-1600mm widths for texturing and grain enhancement.



CSD 650

Circle Saw Distressing Machines

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



MAGNITUDE

Moulders

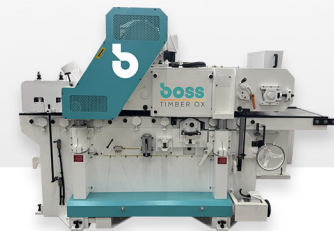
High-precision profiling, heavy-duty production, and intelligent automated setup in solid wood and engineered components.



SEISMIC

Moulders

A traditional production moulder with exceptional accuracy, reliability, and consistent finish quality for a wide range of solid wood applications.



TIMBER OX

Double-sided Planers

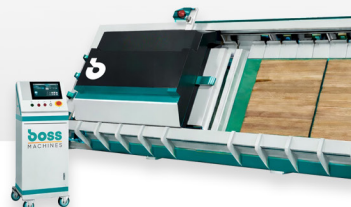
High-efficiency two-face surfacing, precision thicknessing, and industrial timber preparation in solid wood production.



FISSURE

Vertical Resaw

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



EPIGLUE

RF Press

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



CYCLONE

Packaging Equipment

A complete line of packaging machines geared to woodworking manufacturers, delivering fast, automated end-of-line wrapping for panels, doors, furniture.



Behind every BOSS Machine is a dedicated team committed to keeping your operation running. We pride ourselves on exceptional customer support, earning the trust of customers who have relied on us for decades. Whether you purchase through a dealer or from BOSS Machines directly, our experienced team is here to help —providing phone or video troubleshooting, dispatching service technicians, supplying replacement parts, and ensuring your warranty is registered and supported every step of the way.



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