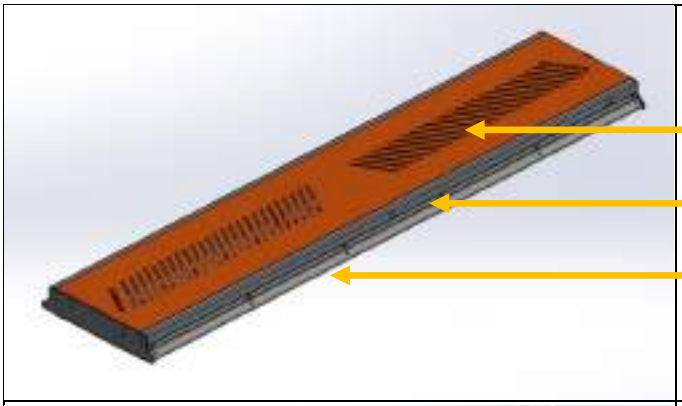
AirBond Technical Datasheet

Product Name:	AirBond - Double Backer Heat Transfer System
Description:	Provides variable, even & consistent pressure application enabling even & efficient heat transfer across the full width of the Double Backer. Replaces inefficient existing systems i.e. weight roll & shoe systems.
Suitability:	Heating & traction sections for all makes, models & widths of Double Backers.
Control:	Stand alone control system or interface to alternative control systems.
Power Requirements:	415v - 3ph - 32A to Main Control Panel.
Remote Support:	Available via internet connection.
Country Of Manufacture:	United Kingdom.
No Of Systems Installed:	>150 Worldwide.

AirBond System Benefits	
Accurate & consistent pressure application	❖ No bearings, internal mechanical linkages or springs enables the system to perform to precise and accurate parameters consistently.
Enhanced board quality	❖ Even and consistent pressure application enables even heat transfer across the full width of the Double Backer heating plates to enable flat board production. ❖ Vented shoes enable moisture release from board.
Increased running speeds	❖ Variable pressure application control applies increased pressure as required for heavier board grades and speed increases to maximise the available heat transfer capabilities from the heating plates.
Improved board performance	❖ Variable pressure applied over a large surface area of each AirBond module. ❖ Segmented airbags provide edge relief to prevent edge crush and belt wear.
Reduced steam application	❖ System enables efficient heat transfer from the hot plates providing the opportunity to reduce hot plate temperatures.
Reduced starch application	❖ Reduced temperatures and efficient heat transfer enables the potential to reduce starch application.
Improved conversion efficiencies	❖ Improved board quality provides opportunities to reduce set up times and increase throughput speeds.
Low running costs	❖ Inverter controlled low power 0.4 kW fans for airbag control ❖ Hydraulic power pack in run mode only when lifting & lowering.
Low maintenance	❖ No bearings, internal mechanical links or springs. ❖ Maintenance mode incorporated in control system enables simple checks to be made as required.
Reduced capital expenditure requirement	❖ Upgrading the Double Backer rather than replacing provides significant capital cost expenditure.
Additional control potentials	❖ Glue machine glue gaps, Wrap arms, Hot plate temperatures can be controlled from AirBond operator HMI if required.
Fast return on investment	❖ Typical ROI in 6 – 18 months.

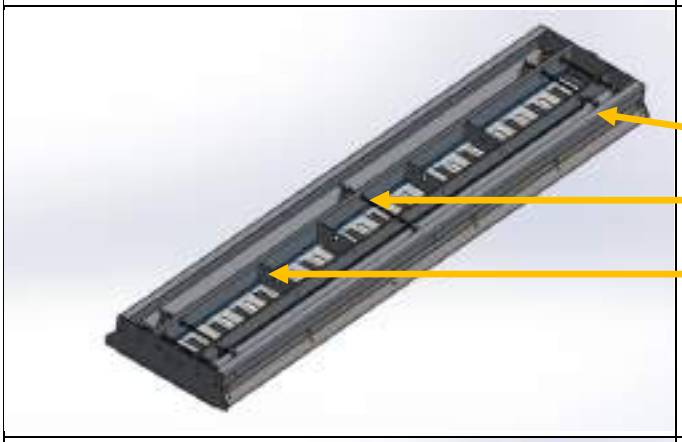
AirBond Technical Datasheet



① Vented Aluminium Top Cover. (Solid Available if req'd)

② Aluminium Frame.

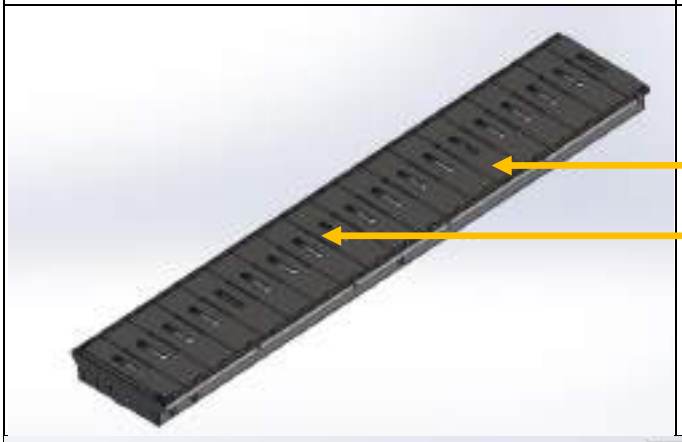
③ AirBond Module Hinged Shoe Assembly.



④ ABS plastic air pipes & connections to airbags.

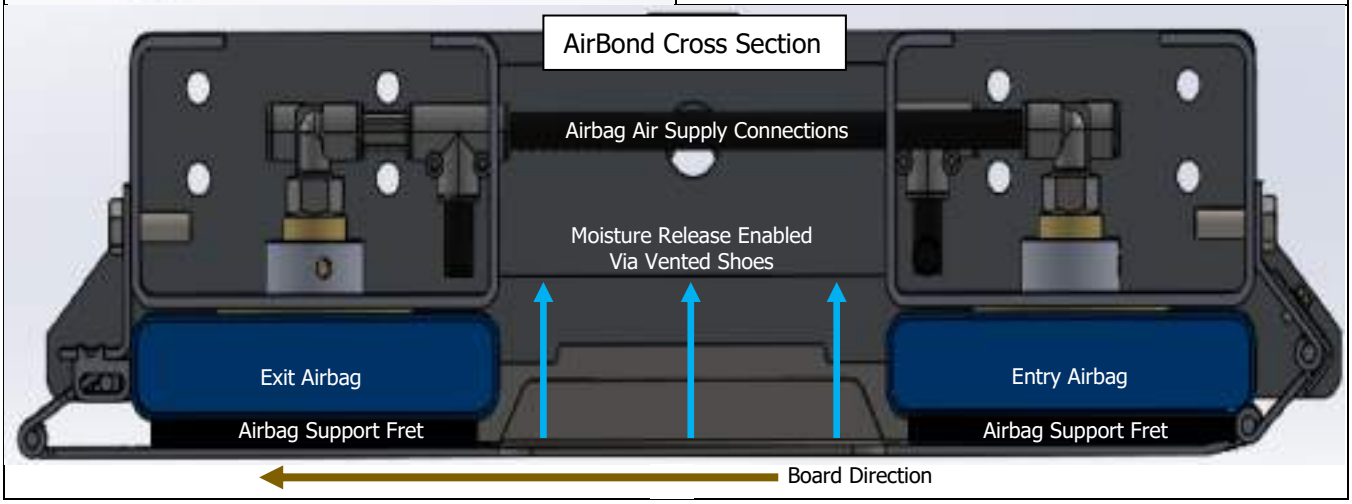
⑤ Segmented Airbags. Centre / Inner / Outer.

⑥ Precision Slotted / Vent Stainless Steel Shoes.
(Solid Available if req'd)



⑦ Hinged Precision Stainless Steel Assembly.

⑧ Vented Stainless Steel Shoes
Incorporating edge pressure relief system via segmented airbags.
(Solid Available if req'd)

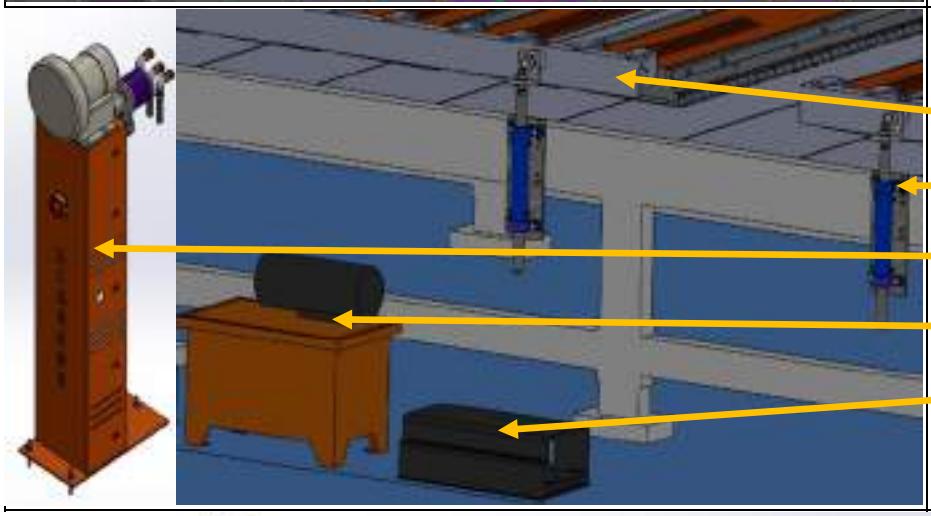


JKSP Services Ltd, Unit 17 Cameron Court, Calver Road, Winwick Quay, Warrington, Cheshire. WA2 8RE UK. Company Registration No 04779006
Tel: +44 (0) 1925 572878 Web: www.jkspservices.com e-mail: sales@jkspservices.com

AirBond Technical Datasheet

System Main Control Screen

- AirBond – Heating Section
- AirBond – Traction Section
- RollerBond
- Glue Machine Gaps
- Hot Plate Temperatures
- External Control Interface



Hydraulic Lift System

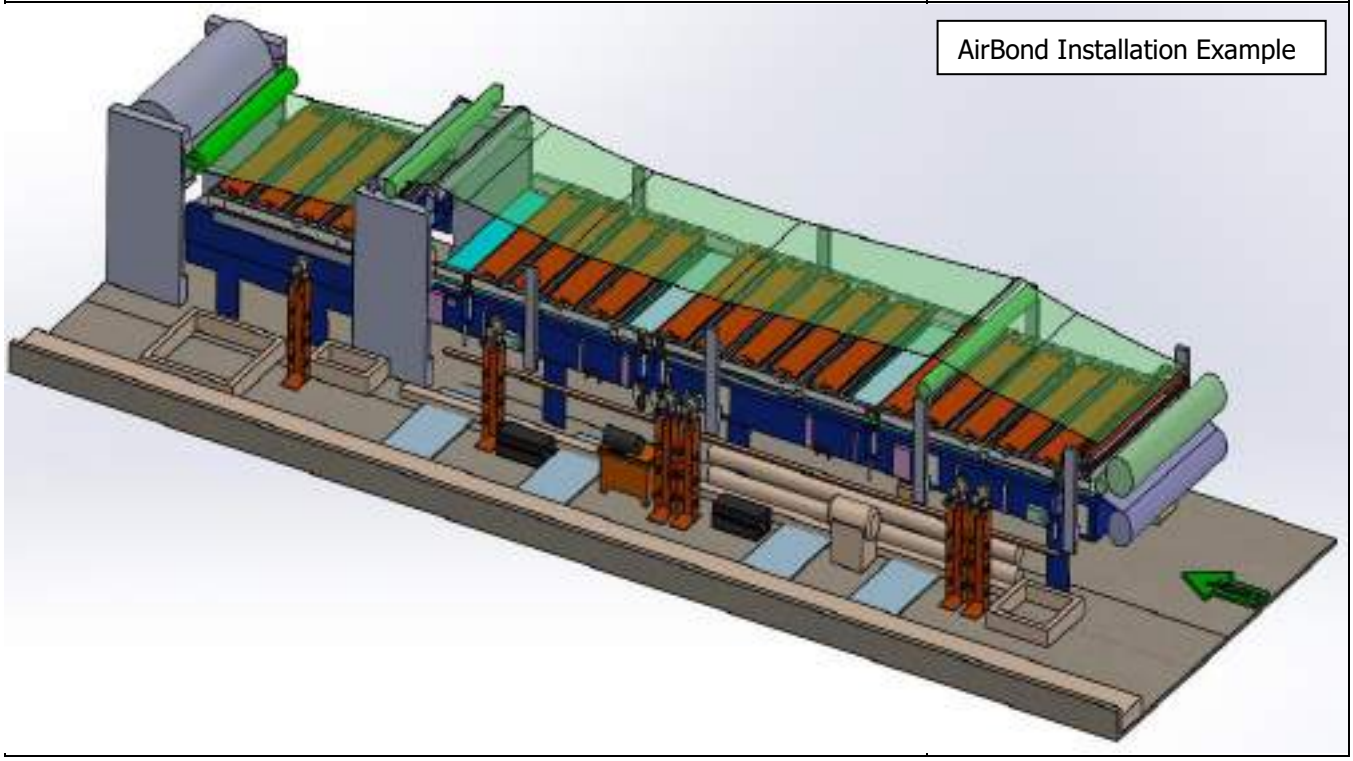
⑬ Lift rail

⑭ Hydraulic Lift Cylinder.

⑮ Fan Assembly & Stand.

⑯ Hydraulic Power Pack.

⑰ Hydraulic Flow Divider.



AirBond Installation Example

JKSP Services Ltd, Unit 17 Cameron Court, Calver Road, Winwick Quay, Warrington, Cheshire. WA2 8RE UK. Company Registration No 04779006
Tel: +44 (0) 1925 572878 Web: www.jkspservices.com e-mail: sales@jkspservices.com