
JKSP
SERVICES
EXCELLENCE ACROSS THE BOARD
+1 (317) 288-0470
KPI
Incorporated
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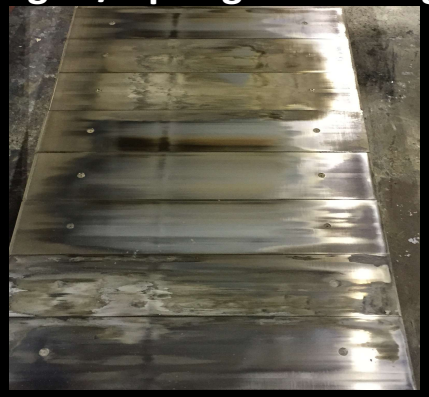
KPI Incorporated

JKSP SERVICES

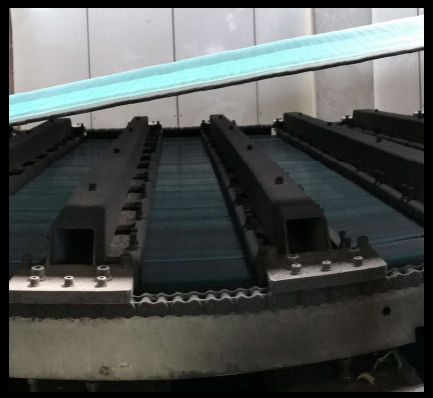
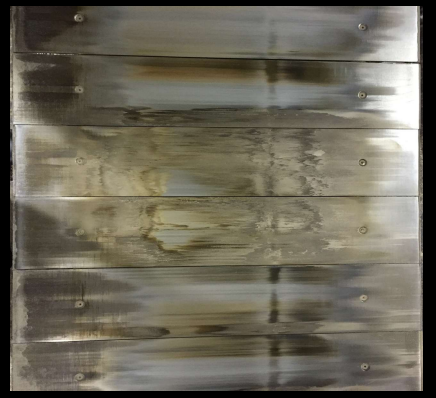
Conventional Systems – Inefficient & Inconsistent Heat Transfer

- Poor surface area contact
- Inconsistent pressure across full width
- Uneven & varied heat transfer
- Multiple Mechanical Components – Mechanical Linkages / Springs Providing Inconsistent Performance





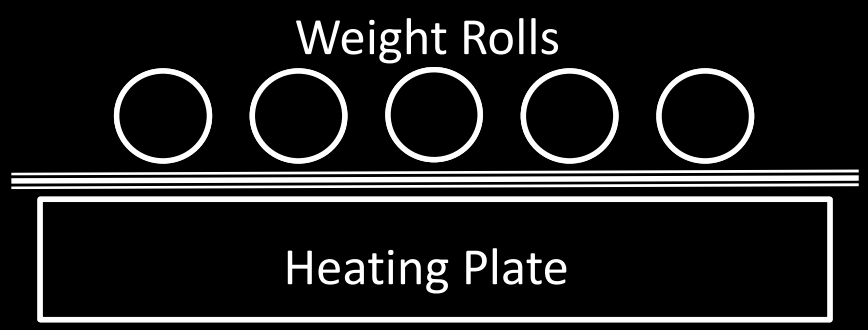


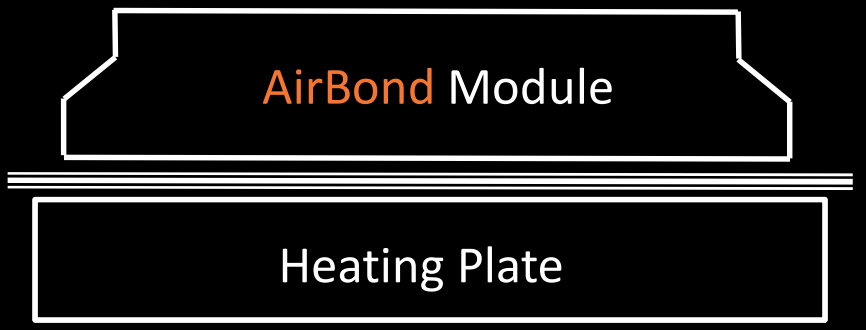



- Variable board quality
- High maintenance cost
- Reduced corrugator speeds
- High starch & steam application
- Increased wear on belt and hot plates
- Reduced Board Calliper & Edge Crush

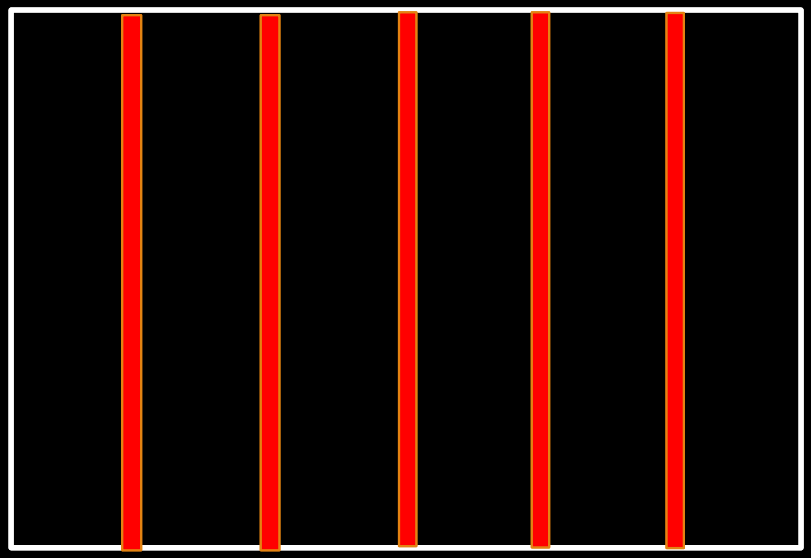
AirBond – Heat Transfer Comparison

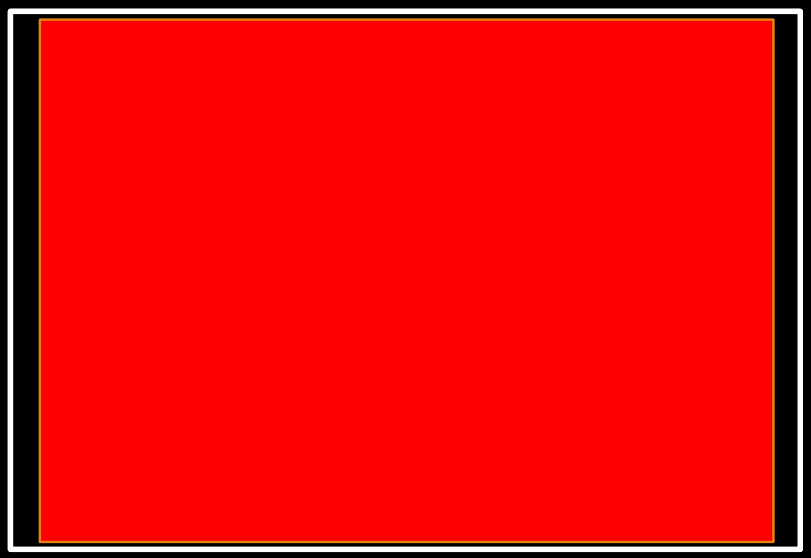
Side View





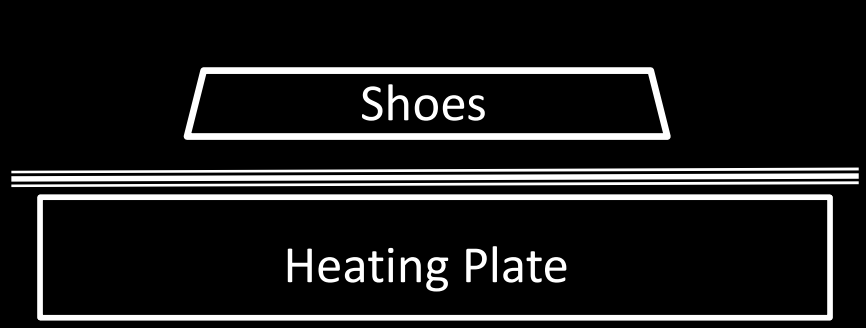
Plan View

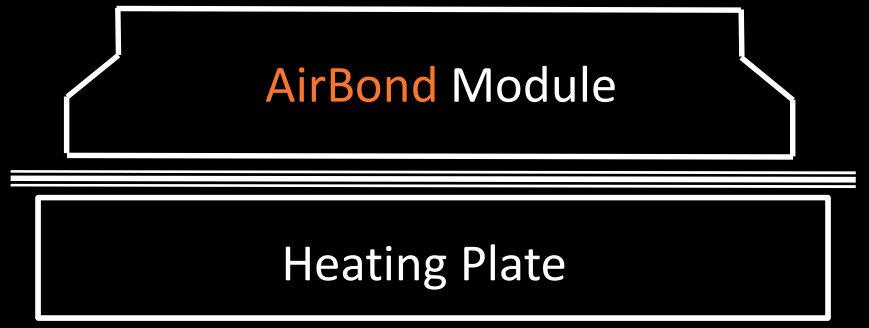




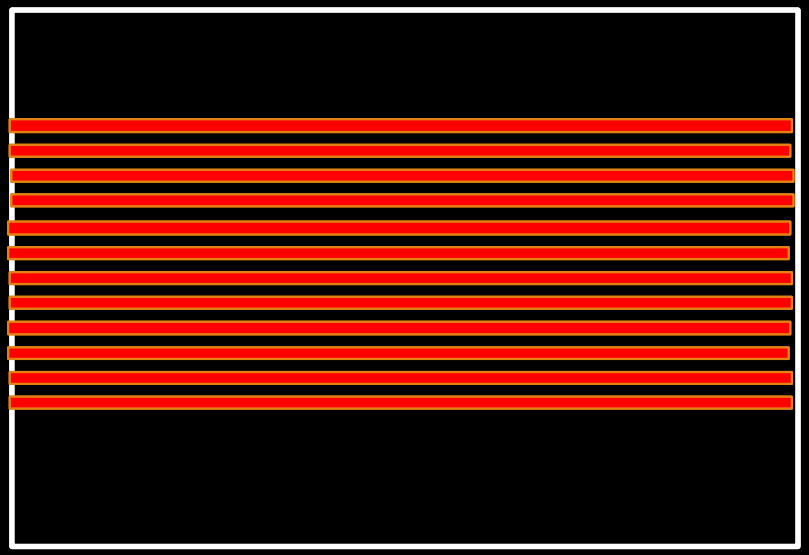
AirBond – Heat Transfer Comparison

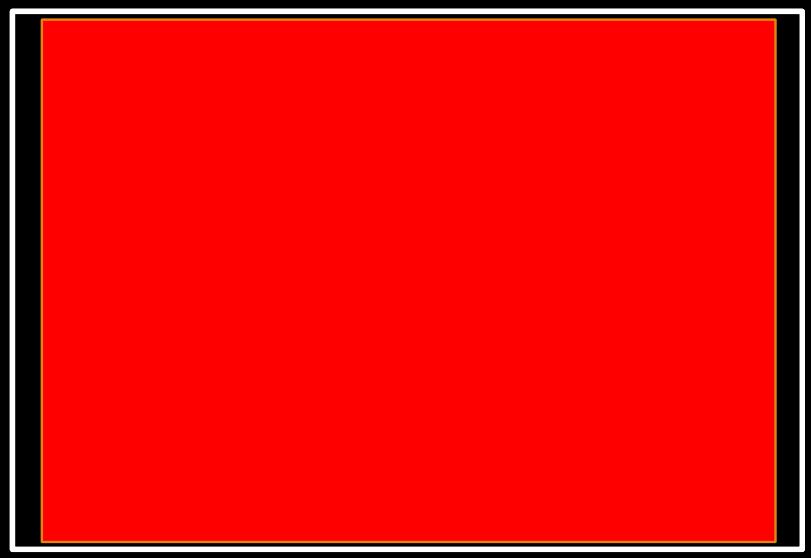
Side View





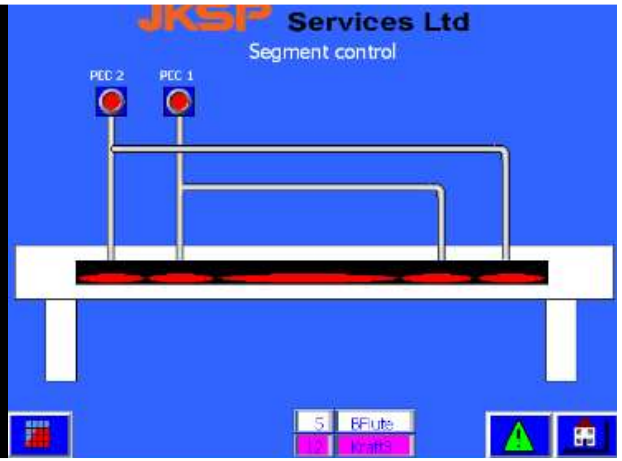
Plan View



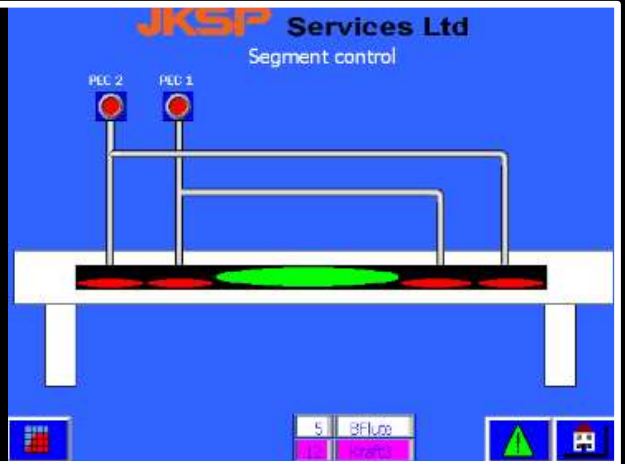


AirBond Control

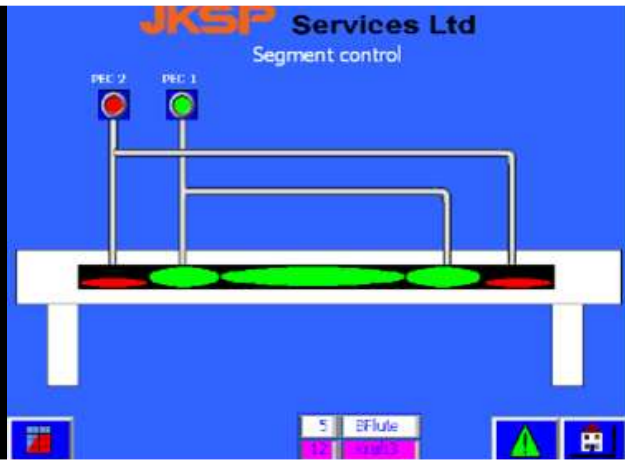
- Corrugator not running.
- AirBond inactive.



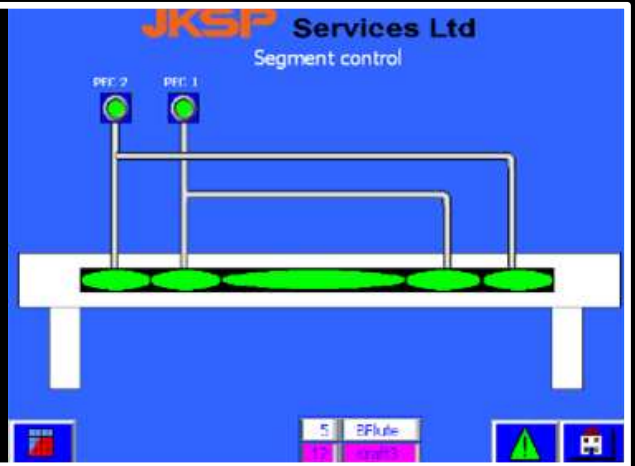
- Corrugator running narrow width.



- Corrugator running average width.

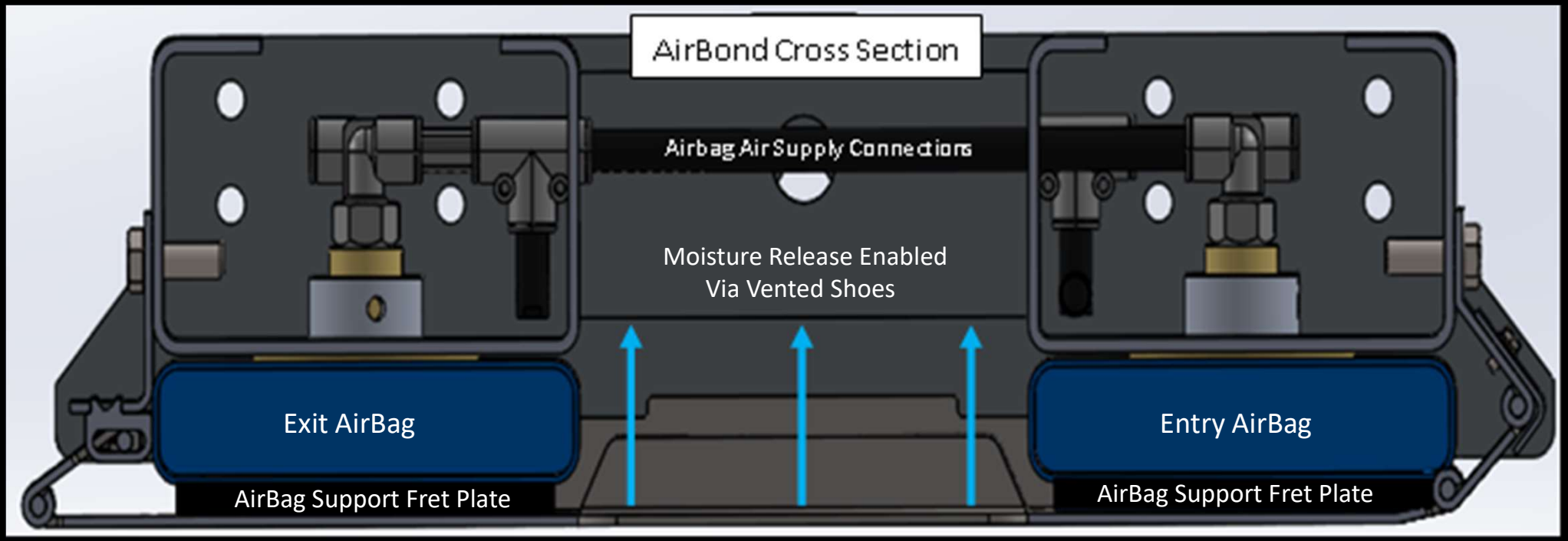


- Corrugator running full width.



AirBond – Even Heat Transfer With Heat & Moisture Release Through Shoes

AirBond – Cross Section



AirBond Control

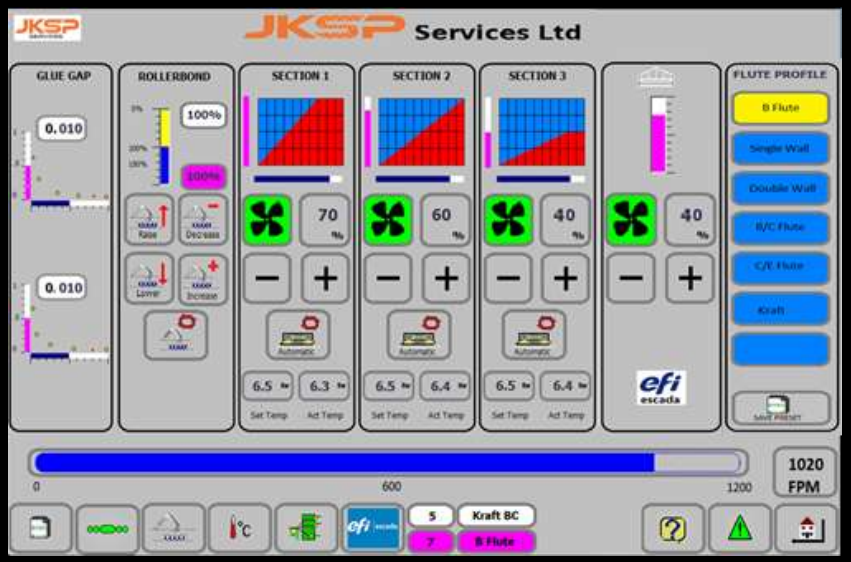
Variable Load Control

AirBond Module

Heating Plate

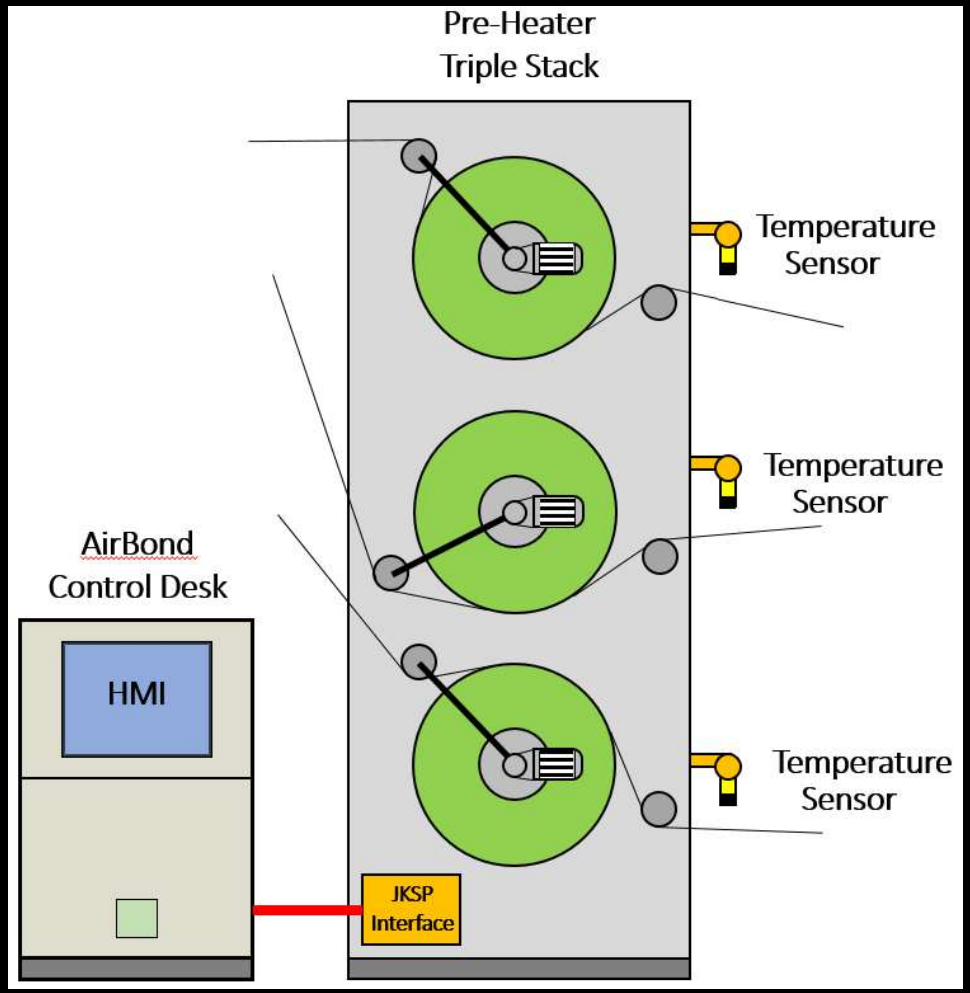
Steam Pressure Control

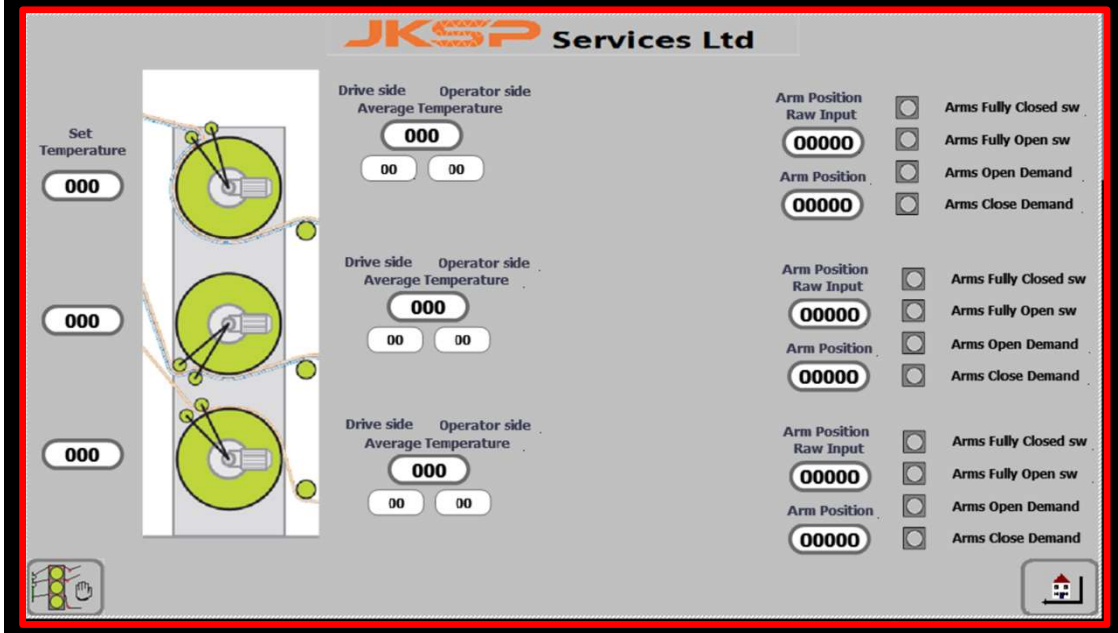
AirBond Independent Or Integrated Control



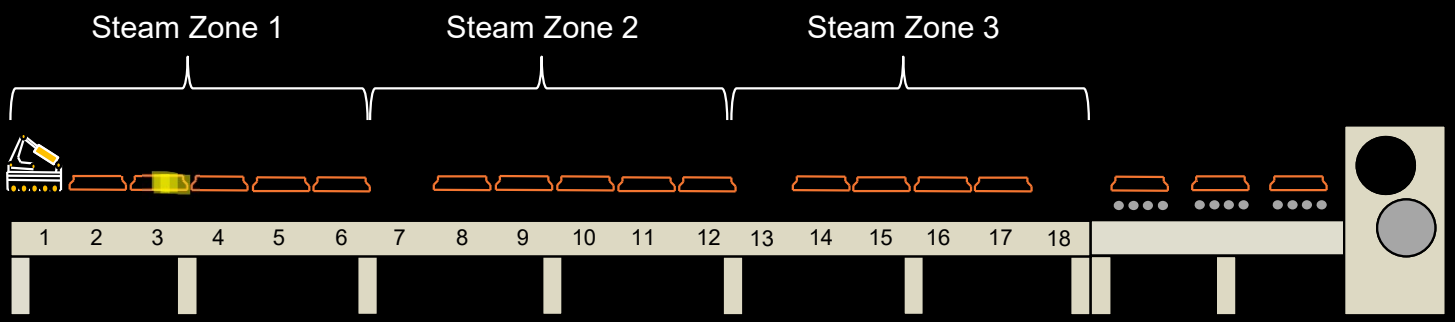
Simple Operator Touchscreen Control

AirBond Closed Loop Temperature Control Wrap Arms Option

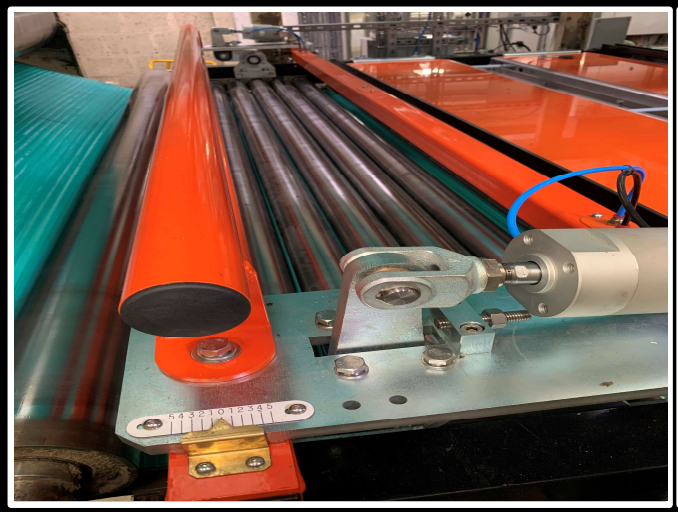




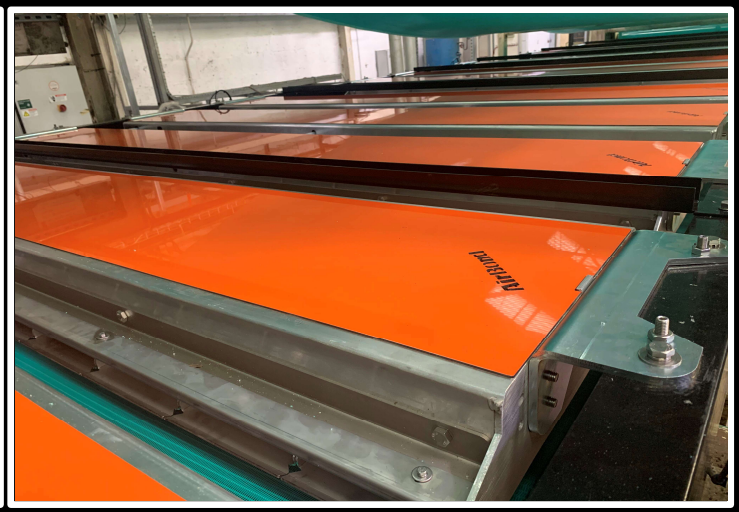
AirBond Heat Transfer System – Installation Example – RollerBond / AirBond



RollerBond - Heating Section Hotplate 1

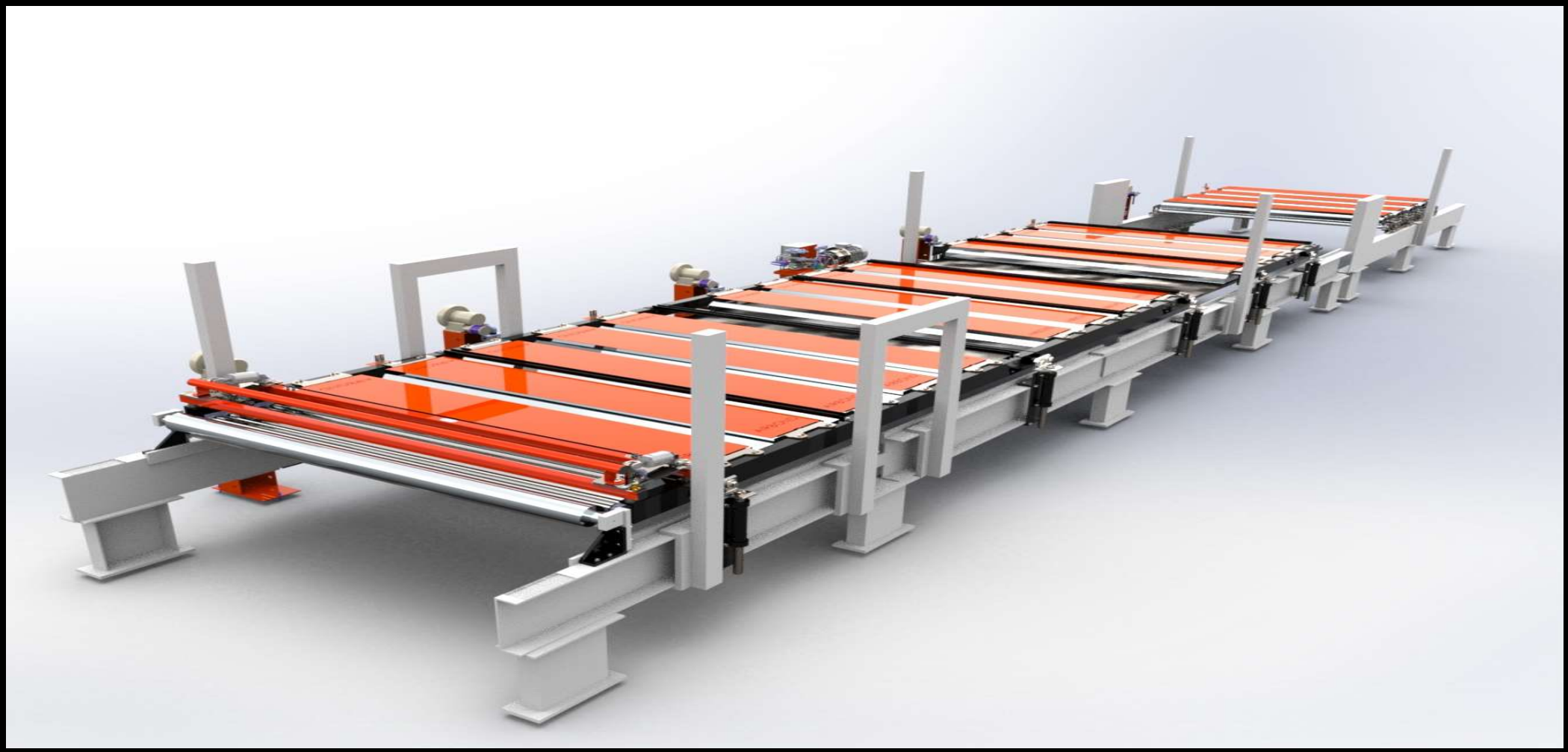


AirBond - Heating Section

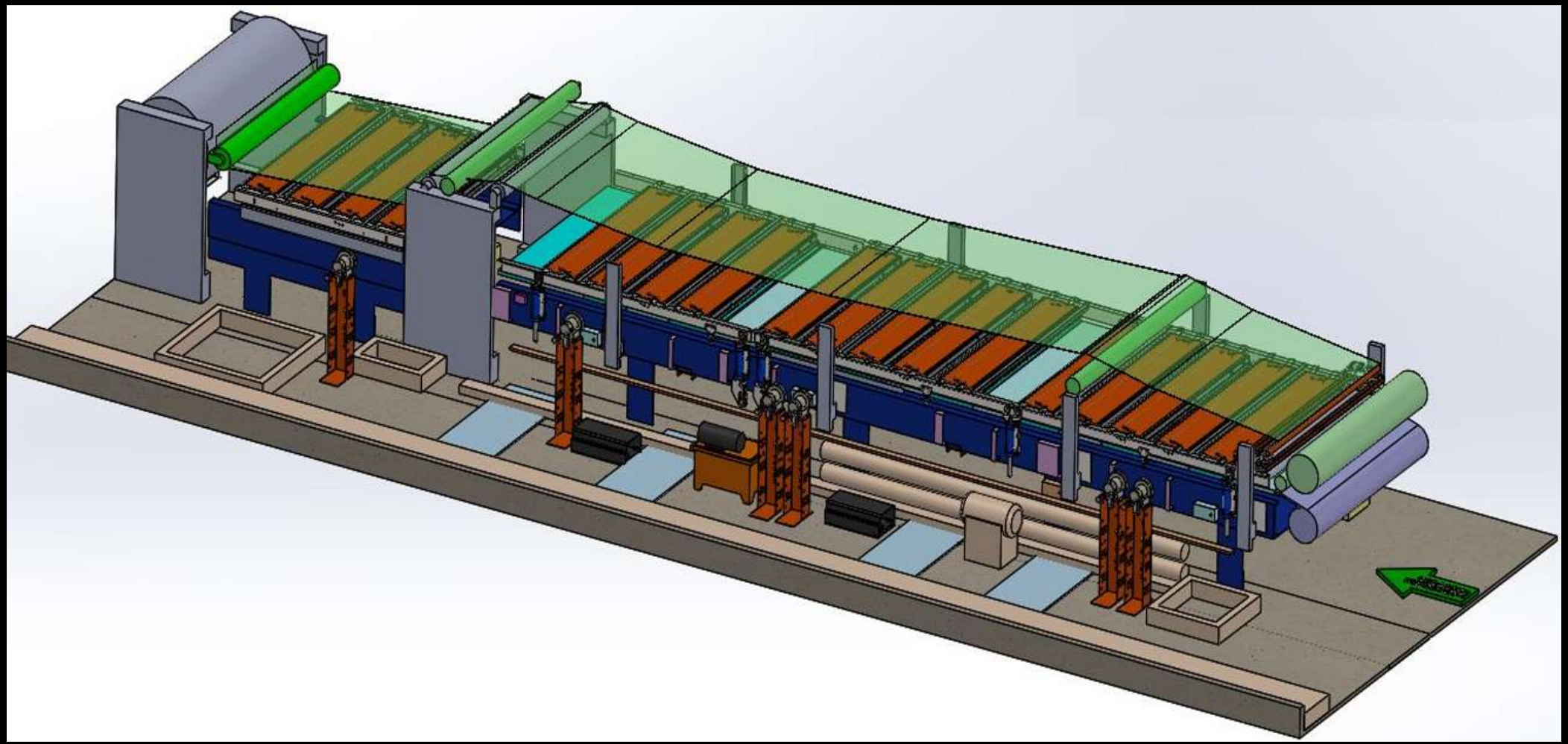


AirBond - Traction Section

AirBond – Example Layout



AirBond – Example Layout

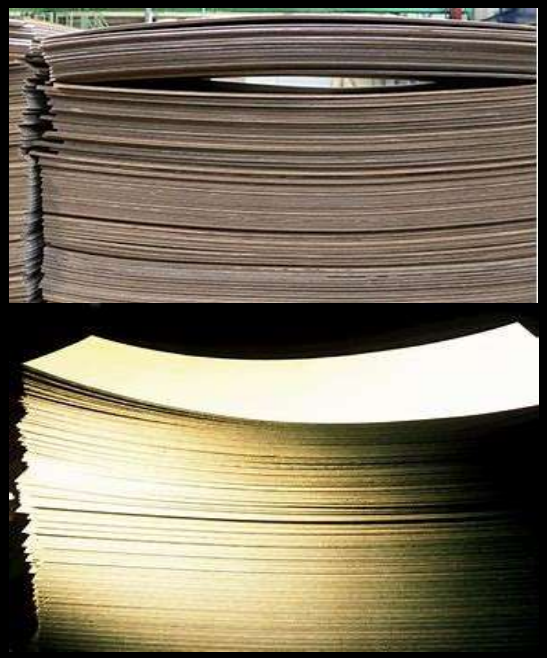


AirBond Customer Results Feedback

Corrugator Speed Increase
5% – 25%

Lower
Maintenance Costs

Waste Reduction
0.5% – 1.5%



Reduced
Customer Complaints

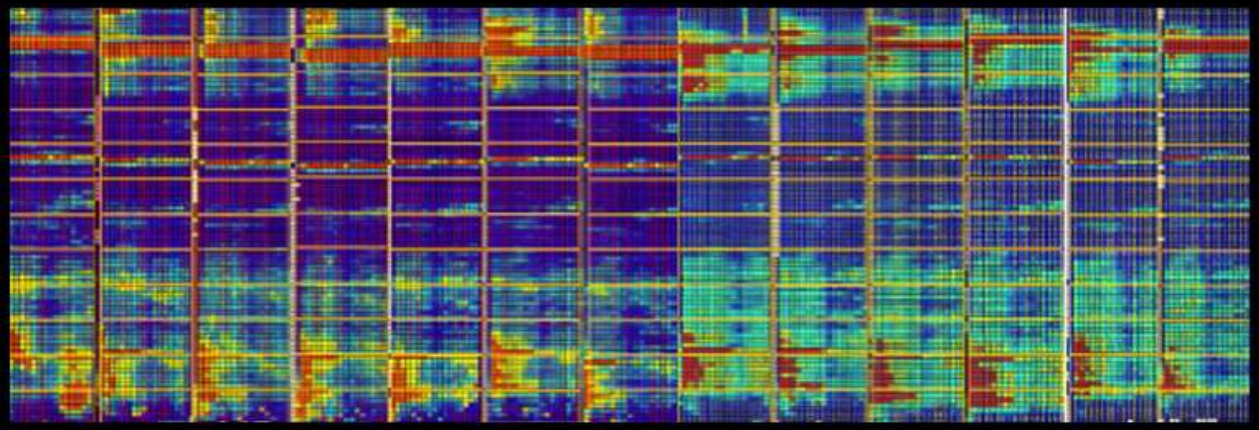
Conversion Throughput
Increase 2% – 8%

Minimize
Energy & Glue Consumption

Before & After AirBond Installation - Digital Pressure Test Comparison

Before AirBond:
Inconsistent pressure application across width. Warp, varied quality and reduced corrugator speed!

Double Backer Hot Plates - Machine direction →

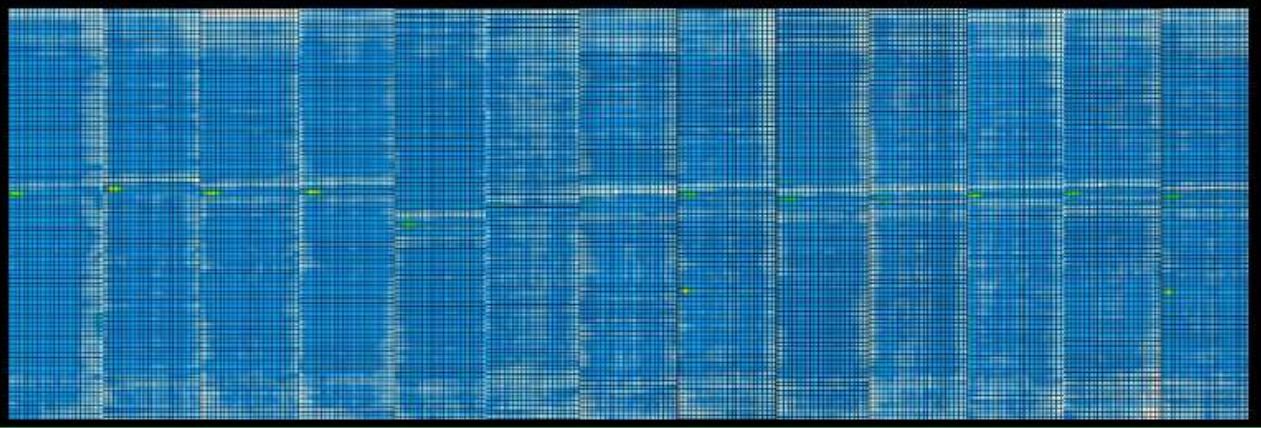


Drive Side

Operator Side

1 2 3 4 5 6 7 8 9 10 11 12 13

After AirBond:
Even pressure, minimum starch and steam application, maximum corrugator running speed, flat board!



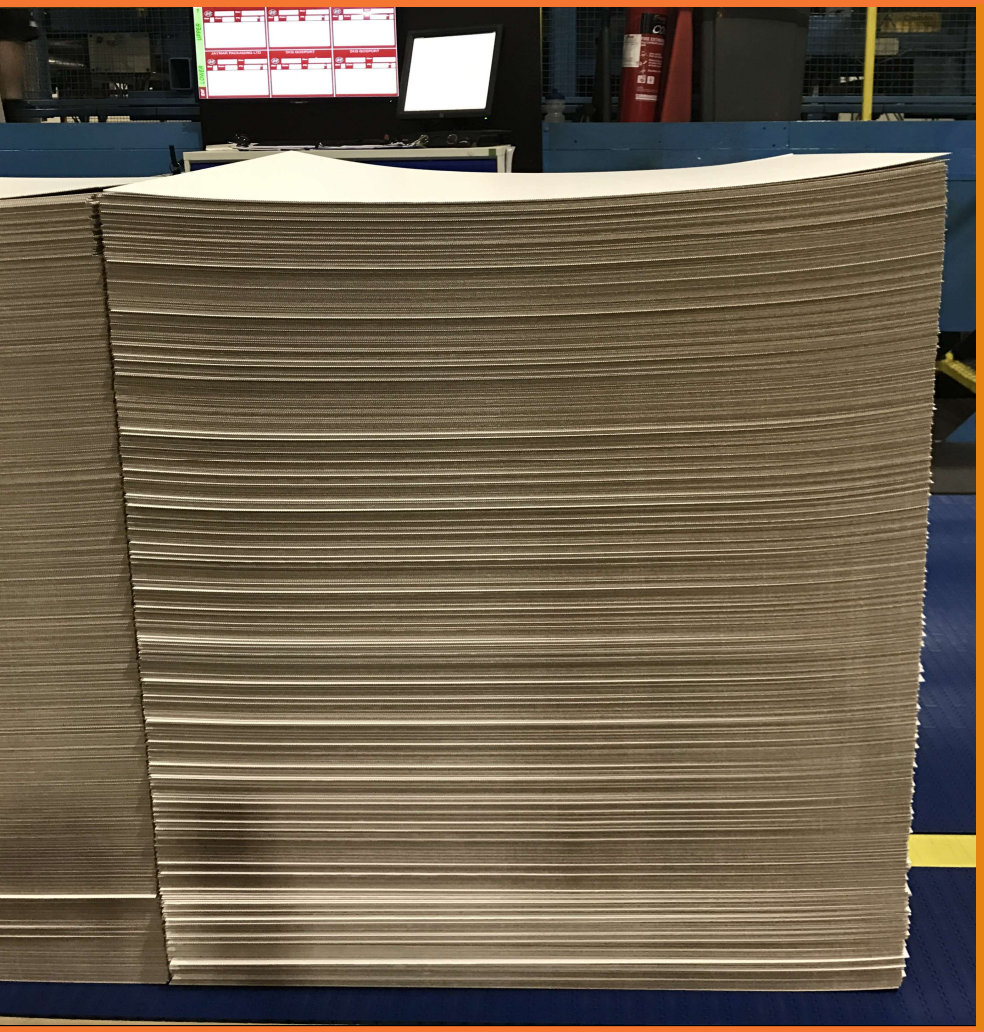
Drive Side

Operator Side

Before AirBond – Uneven Heat Transfer Resulting In Warp Issues

After AirBond Installation – Even Heat Transfer / High Speed / High Quality / Flat Board

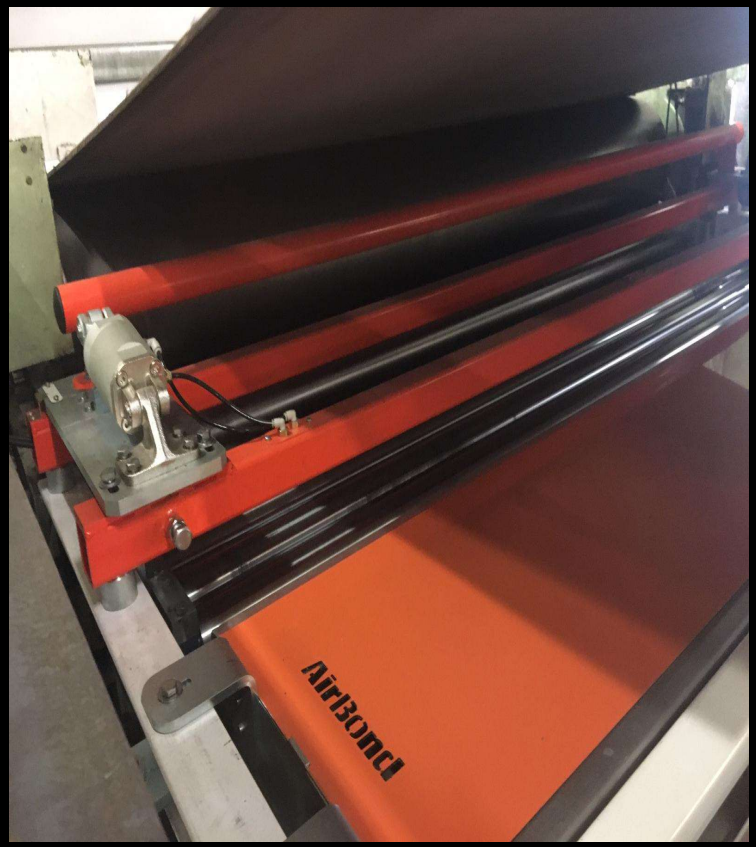
Before AirBond

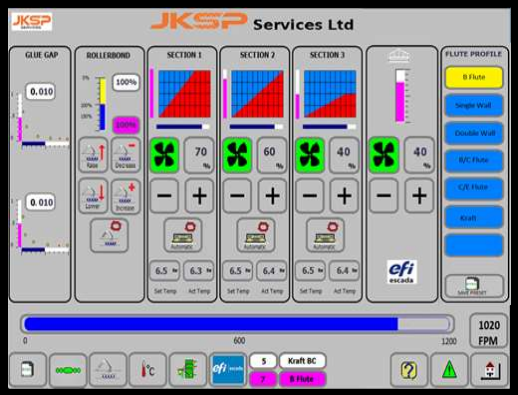


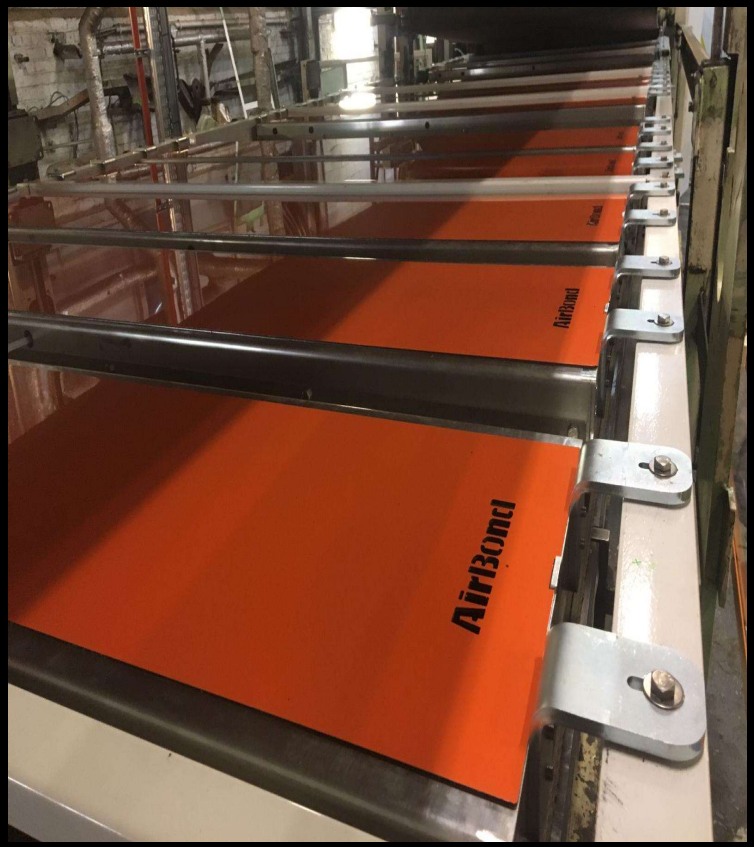
After AirBond

AirBond Double Backer Heat Transfer System

Superior Patented Design – Replaces Weight Rolls & Shoe Systems – Efficient Heat Transfer – Consistent Quality







Increased Corrugator Speed – Reduced Waste – Reduced Steam & Starch – Fast Return On Investment – Quick Installation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