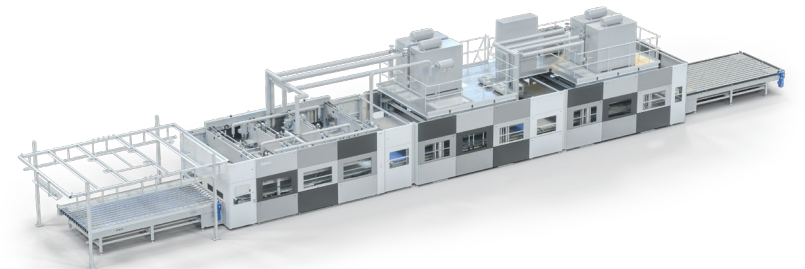
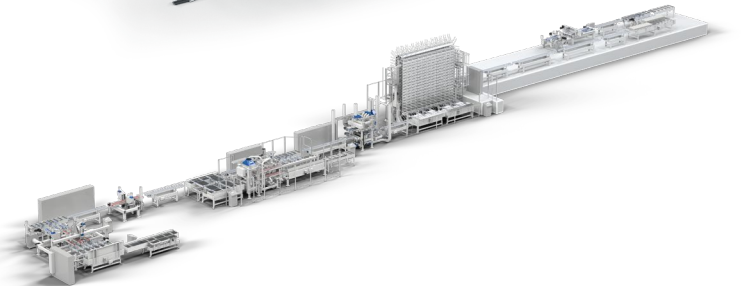
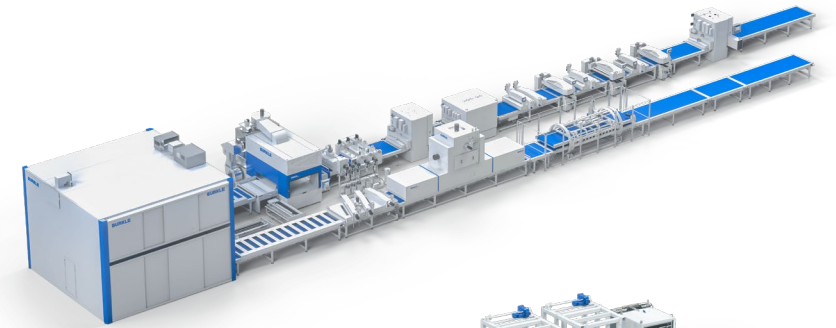
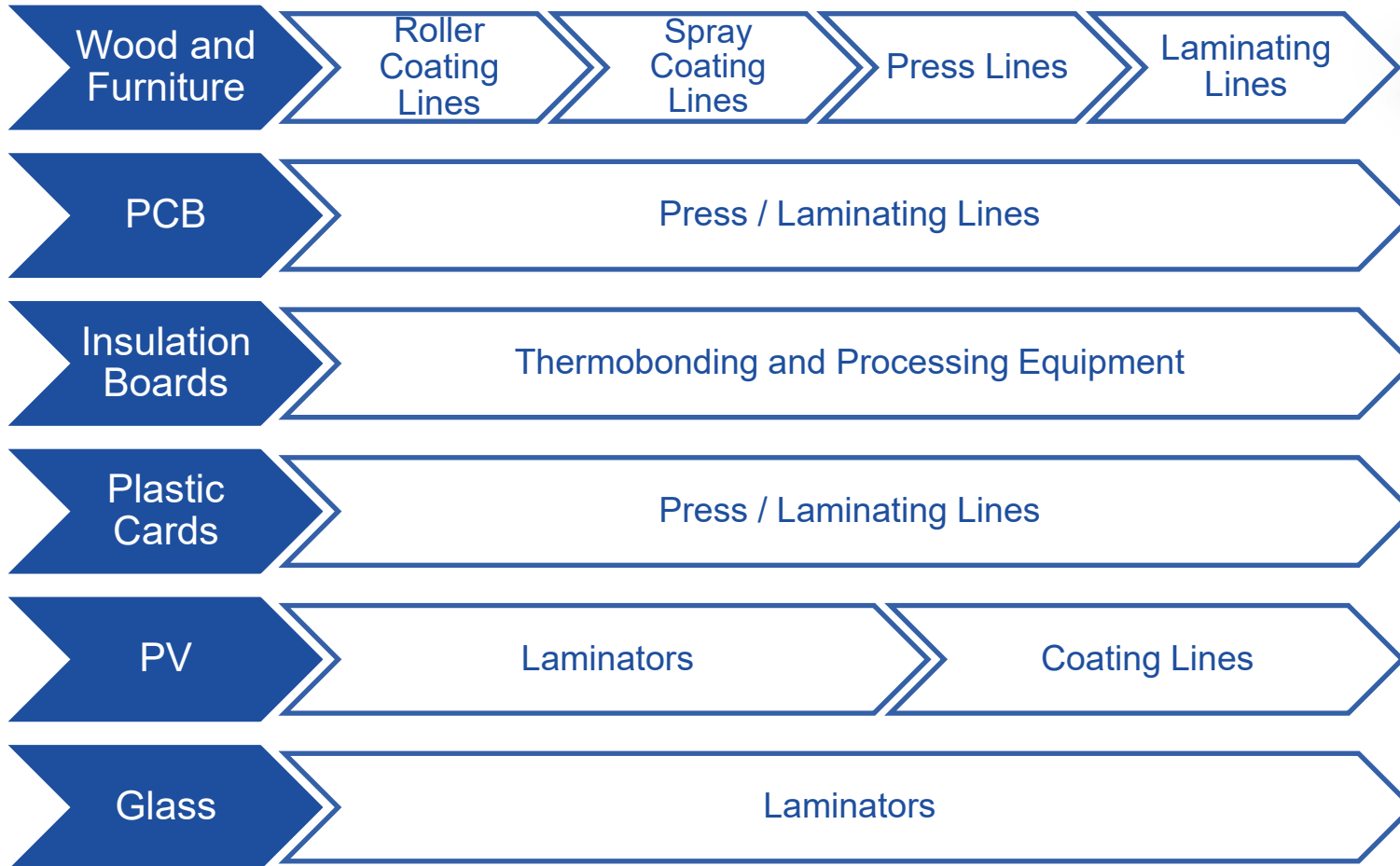


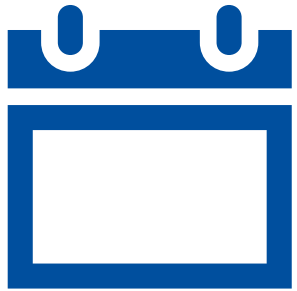


**Shift Your Strategy With:
Autoclave Free Glass Lamination:
Efficient Lamination of Safety and Flat glass**

Robert Bürkle GmbH Six Core Industries



Robert Bürkle GmbH Company Overview



Foundation
1920



Revenue
120 Mio. €



Employees
450 World
Wide



Worldwide in
30 countries



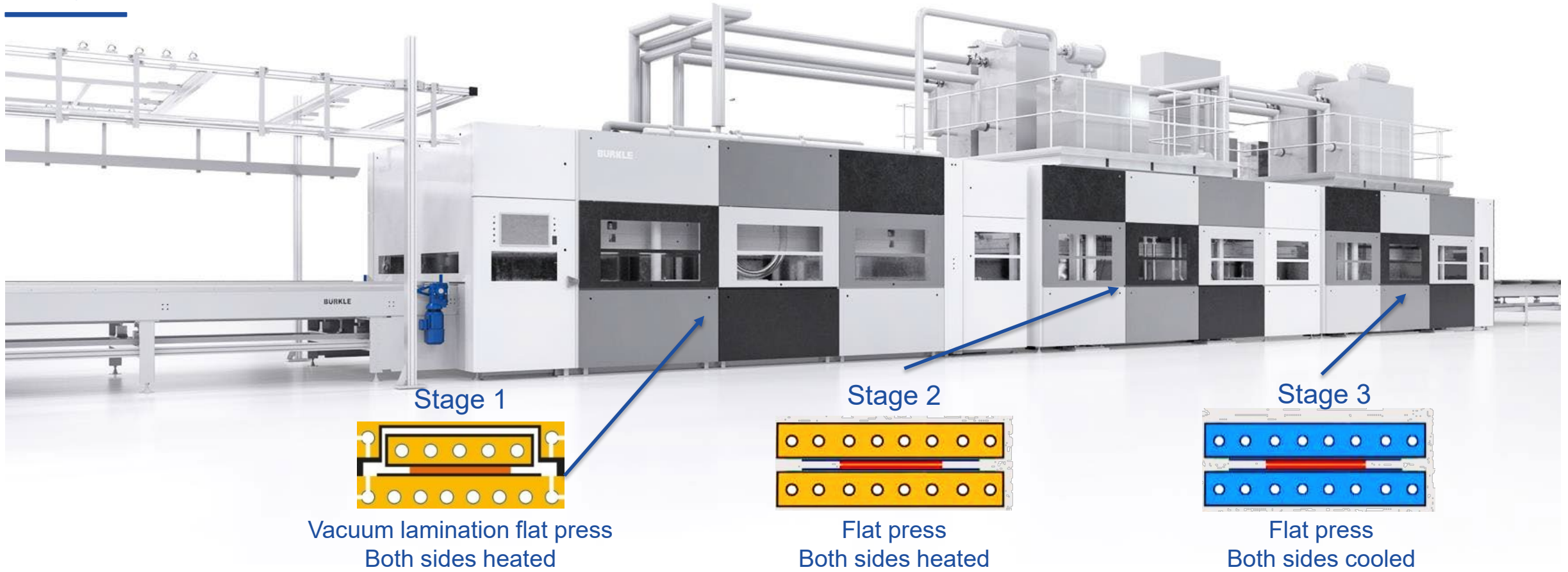
Conventional Glass Lamination Pre-nip and autoclaves:

Advantages and disadvantages of the production method

- Advantages:
 - Proven and accepted production solution
 - Stable process
- Disadvantages:
 - Long lamination cycle times
 - High energy consumption
 - Inline processing not possible
 - Long batch preparation
 - Long batch breakdown
 - High lamination pressure
 - High space requirement
 - High labor costs



Glass Lamination easy-LAM IFL

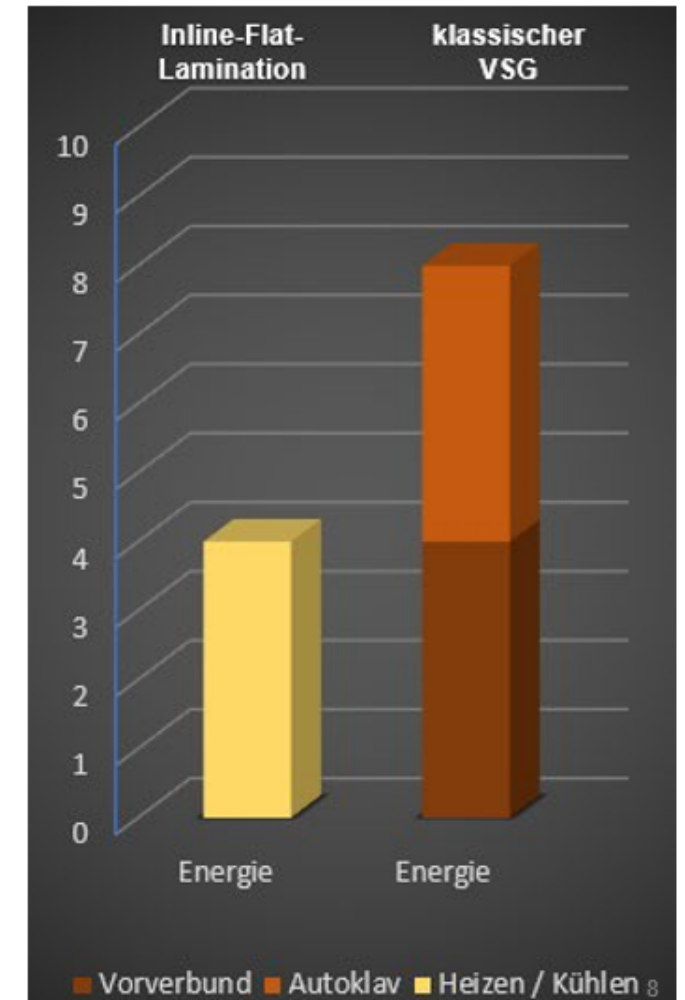


05 / Energy Bürkle vs. Prenip & Autoclave

- Energy savings of 50% / m²

Without: Taking into account the operating costs for:

- High pressure compressed air (13bar) – 2 compressors (Maintenance etc.)
- Cooling tower
- Peak load (1hour approx. 1.000 KW per Autoclave run)
- Factory connected load
- Construction of transformer station



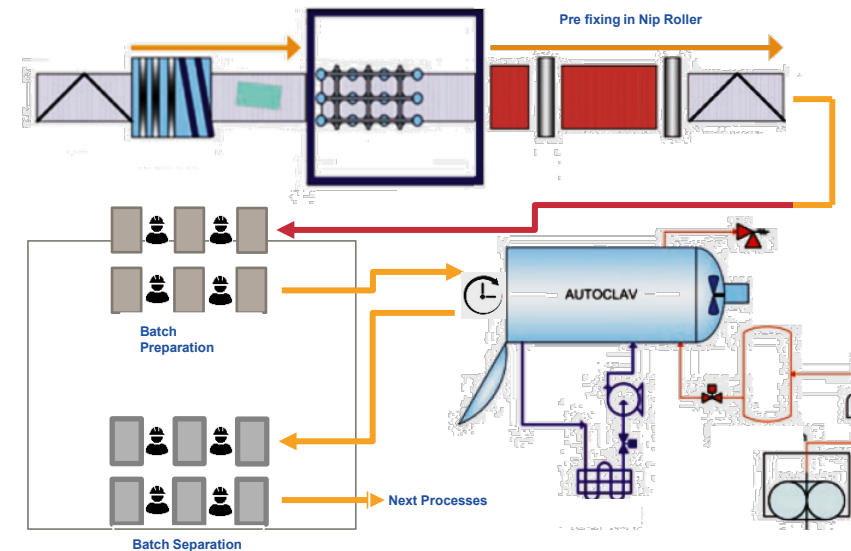
21.02.2022

Inline-Flat-Lamination Process Space Savings: Autoclave Comparison

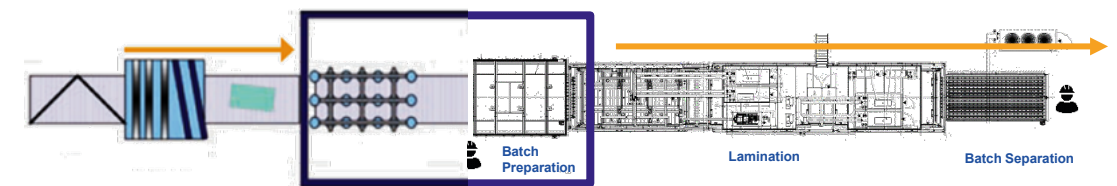
Glass lamination with autoclaves in comparison

- With **complete inline integration**, the space and personnel requirements in production are significantly reduced.
- Instead of long cycle times in the autoclaves, the easy-LAM IFL makes **short tack times** possible (10-20 minutes)
- In addition, production can be completely inline and the **offline processes become obsolete**.

Glass lamination with autoclaves



Glass lamination with the easy-LAM IFL







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