



Low volume folding box erector



RAYA 2025 Finalist Event

Speakers



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What Was the Problem?

In the manual and semi-automated processes we previously relied on, we faced several critical issues:



Slow Production Speeds:

The older system could only complete **1 box every 90 seconds**, making it nearly impossible to meet increasing production demands.



Labor-Intensive Process:

Continuous manual intervention was required for folding and gluing boxes, consuming operator time and effort.



Inconsistencies:

The heavy reliance on human input could lead to errors, impacting the quality of the final product and causing material waste.

How Did It Impact Our Work and People?

The problems caused both workflow inefficiencies and additional strain on our personnel:

- **Delays:** Slow box assembly timelines impacted overall production schedules.
- **Physical Strain:** Repetitive actions and increased labor in manual assembly could cause ergonomic issues among operators.

This impacted both productivity and employee well-being, meaning we needed an urgent upgrade to our processes.



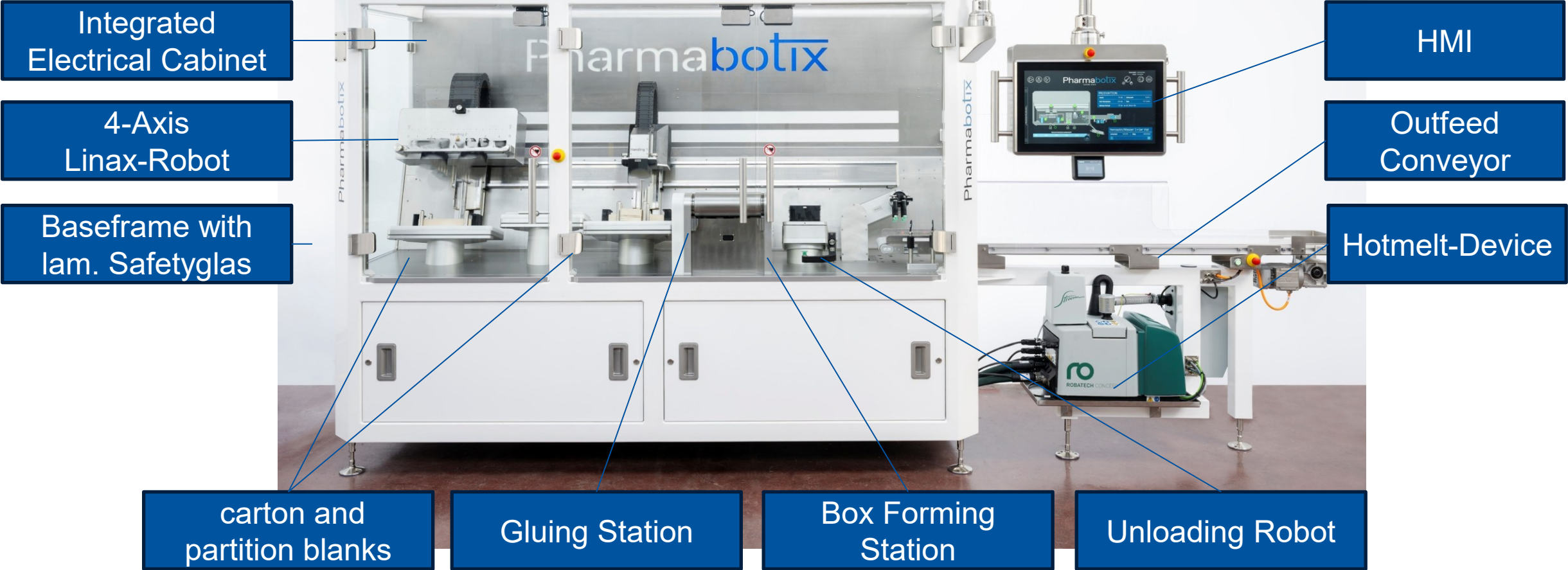
What Were Our Expectations of the Machine?



We were looking for a solution that could address these core challenges:

- **Higher Speed and Productivity:** The ability to process boxes faster and align production with increasing demand.
- **Reduced Labor Intensity:** Decreasing manual intervention so operators could focus on more valuable tasks.
- **Consistency and Precision:** Eliminate inconsistencies and errors caused by manual handling.
- **Flexibility:** Handle different box types with quick, tool-free setup changes.
- **Improved Operator Experience:** Provide an ergonomic, user-friendly design to reduce strain and improve workflow efficiency.

Equipment overview



Handling and HMI



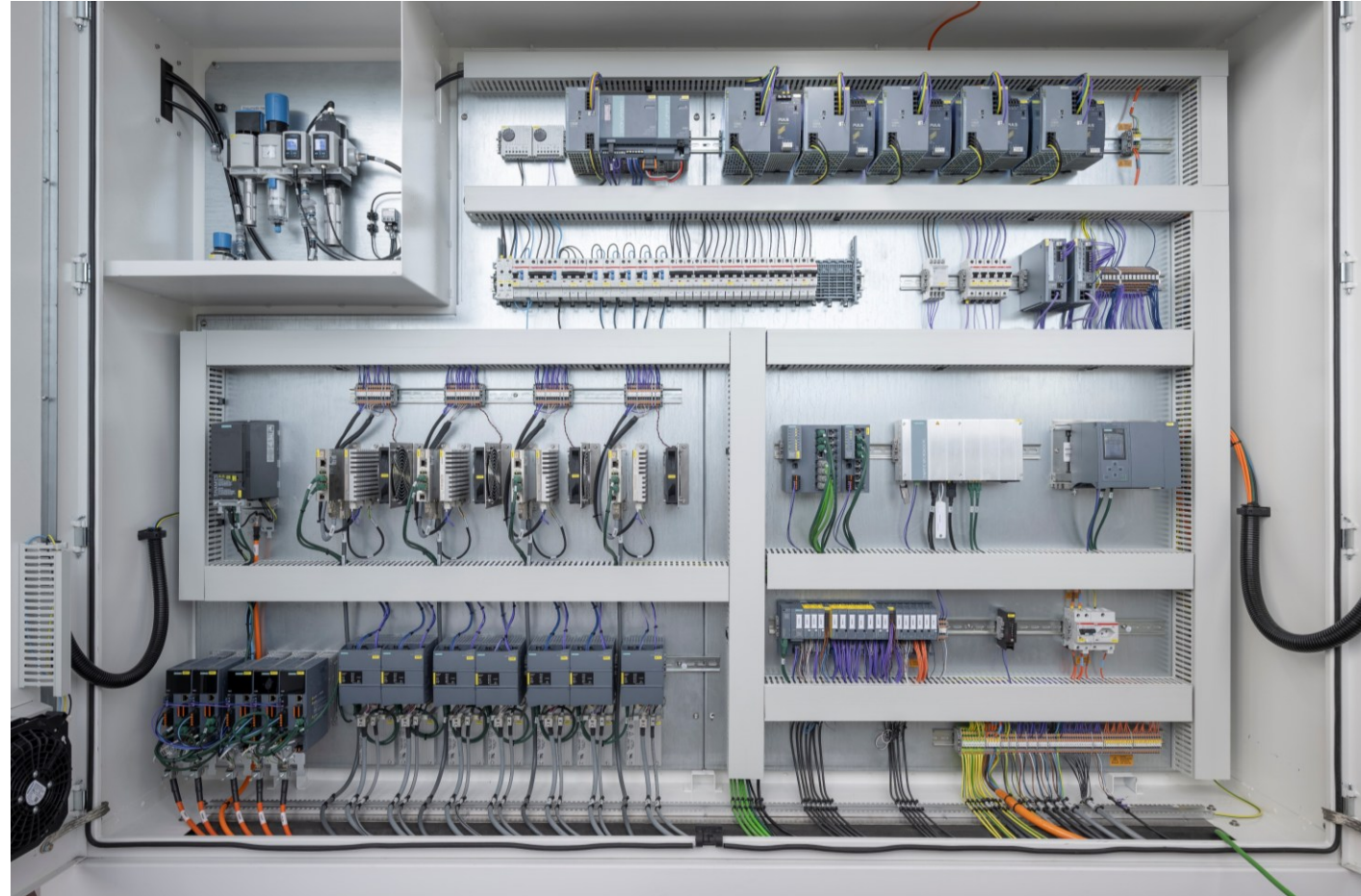
Pharma
botix



Design & Cleanability



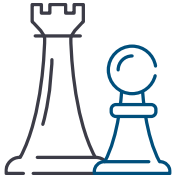
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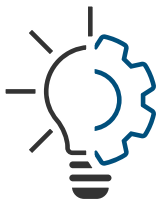
Summary



- Attractiveness:**
- Design enables various type of boxes & inlays
 - Improved process quality & output

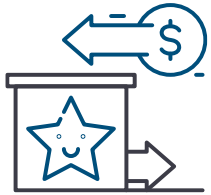


- Flexibility**
- fast & tool-free changeover
 - HMI Wizard for recipes



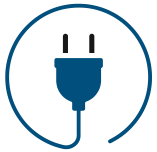
- Easy operation**
- Graphical User interface insures smooth operation
 - Recipe / product-based, calculated positions
teaching unnecessary

Summary



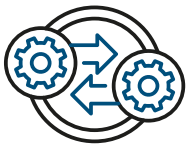
ROI

- <3Y by enhancing production efficiency and multiplying the overall output compared to the existing solution



Plug and play

- all shipped on one Baseframe – becoming operation after 3 days



Integration

- Anyone can buy it, apply without customization

Your vote for the audience award



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- Maximum Flexibility: < 2 min tool-free format change guided via HMI
- Innovative Robotics: Custom 4-axis linear robot, easy teach-in, compact design
- Efficiency & Quality: 8 boxes/min, 24/7 operation, GMP-compliant automation
- Plug & Play Integration: Fully qualified, no customization needed, OPC UA ready





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Thanks for your attention