

AFSystems INSIGHTS:

Retrofitting Mechanical Processes for Efficiency, Sustainability and Scalability

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AFSystems

crush • convey • control



INTRODUCTION

Retrofitting is a game-changer for breweries and distilleries looking to enhance efficiency, and future-proof their operations. Upgrading systems with modern conveying, milling, and automation solutions allows producers to optimise without the cost and downtime of a full overhaul.

Retrofitting provides: improved ingredient handling, reduced manual labour and integration of advanced control systems.

AFSystems have retrofitted numerous projects – including Rocky Ridge, Brew Dog and Lark Distillery – providing clients with a flexible, cost-effective path to scaling production while maintaining quality and sustainability.

INDUSTRY CHALLENGES

- Inconsistent milling quality reducing recipe efficiency
- Quality control and pest management
- High levels of manual labour in grain processing
- Difficulty scaling up production while maintaining quality
- Excessive dust or contamination risks in handling processes

THE AFSYSTEMS APPROACH

We take a custom, 3D approach to retrofitting, where we work with clever ROI and implement custom solutions. Whether it's upgrading conveyors, refining milling systems, or integrating automation solutions — retrofitting mechanical processes will boost efficiency, sustainability, and repeatable products.

80% REDUCTION IN MANUAL HANDLING TIME

Automated grain transfer eliminates the need for manual bucket transport.

90% REDUCTION IN AIRBORNE DUST

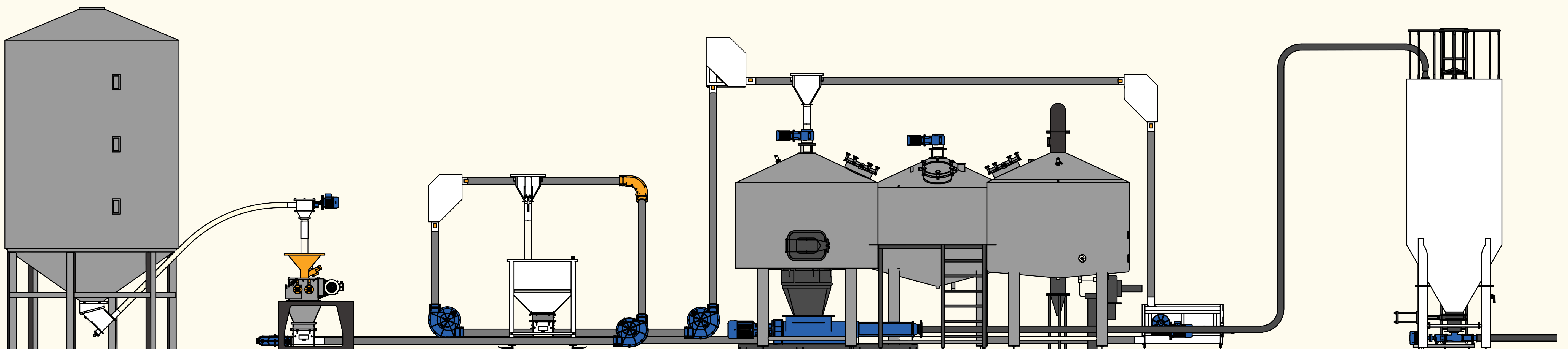
Enclosed mechanical conveyors, improve air quality and worker safety.

10–20% INCREASE IN PRODUCTION THROUGHPUT

Integrating mechanical and automated solutions for grain intake and recipe systems allows for more consistent batches.

30% REDUCTION IN OVERALL CO2 EMISSIONS

By implementing energy efficient mechanical conveyors, motor performance is optimised, reducing energy consumption.



Up to **80% REDUCTION IN FOREIGN OBJECTS & DAMAGED MALT** in malt transport, **PRESERVING GRAIN INTEGRITY** and **REDUCING OXIDATION RISKS**

99%+ RECIPE REPEATABILITY due to **CONTROLLED GRAIN FLOW** and **REDUCED EXPOSURE TO CONTAMINATION.**

FUTURE OUTLOOK

Investing in retrofitting mechanical solutions offers breweries and distilleries the opportunity to significantly enhance efficiency, reduce operational costs, and improve sustainability. By upgrading existing systems, producers can streamline processes, reduce waste, and increase the lifespan of their equipment – all while maintaining product quality and consistency. Retrofitting also provides the flexibility to meet evolving industry standards without the need for costly, disruptive decommissions and rebuilds. It's an investment in self-growth, helping businesses stay competitive and environmentally responsible.

KEY BENEFITS

- Improved product quality and recipe consistency
- Operational cost savings and waste reduction
- Improved workplace conditions
- Reduced power consumption and carbon footprint
- Ability to integrate stand-alone or fully automated controllers
- Meeting IECX Motor Ratings and Australian compliances

LOOKING TO SCALE YOUR OPERATIONS?

Talk to us today about finding the most sustainable solution for you!