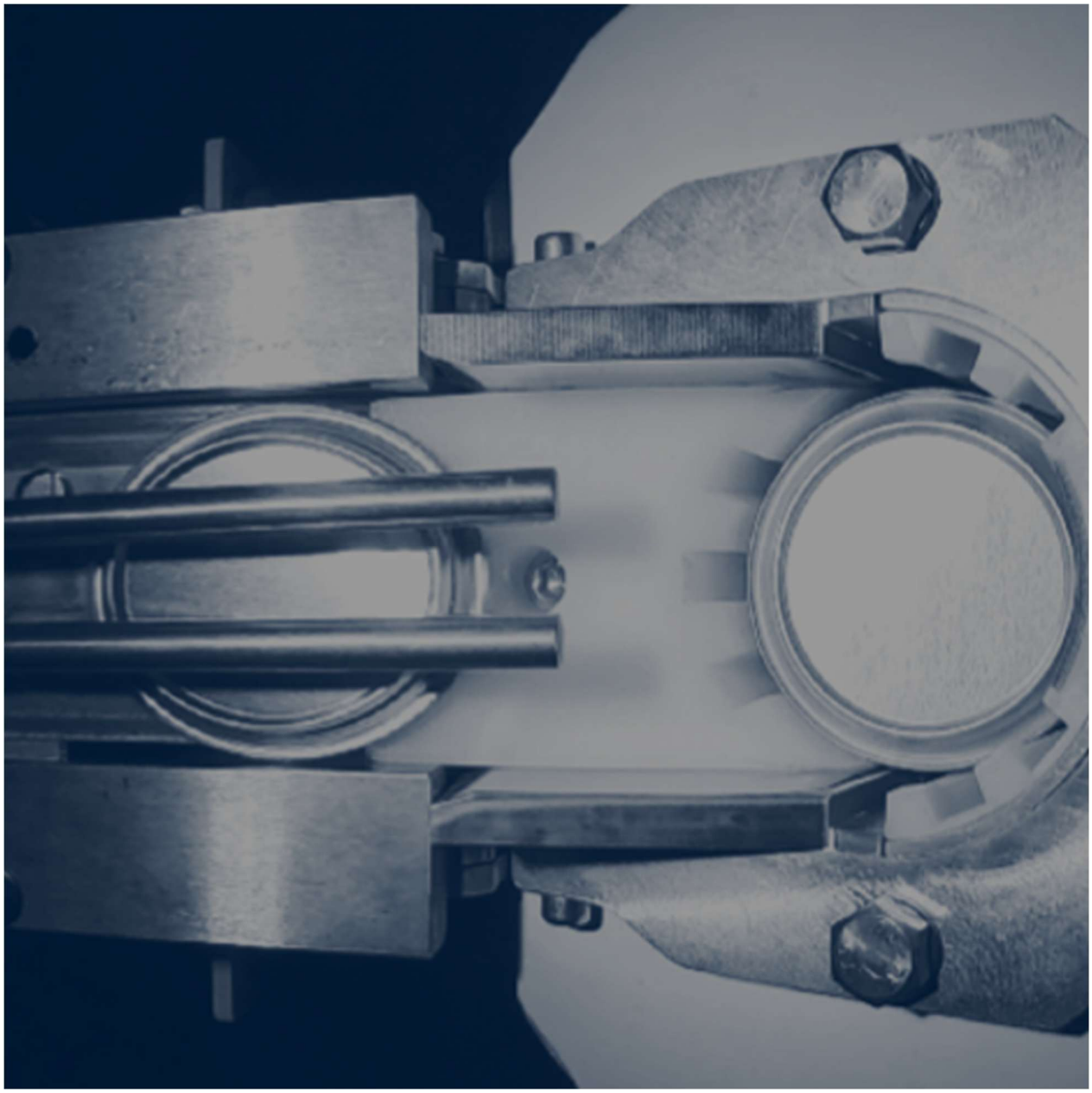
NPB

Upgrade & retrofit solution | Conveying Beverage

Dynamic Hopper Technology

A patent-pending solution jointly developed by NPB and Canline to redefine conveying uptime in high-speed end manufacturing. By addressing the weakest link in end conveying - the stacking process - the technology delivers a more tolerant, robust, and future-ready approach to end handling.



In partnership with CANLINE

Maximizing uptime in high-speed end conveying

The Dynamic Hopper Technology is a patent-pending solution designed to remove one of the key constraints in end conveying - unreliable stacking. By applying a fundamentally more tolerant approach to stacking, the technology ensures stable operation under demanding conditions and translates directly into higher uptime and more predictable production performance.

Built to perform when speeds increase

As line speeds increase, traditional hopper solutions become increasingly sensitive to small variations in end behavior. The Dynamic Hopper Technology is engineered to absorb disturbances rather than amplify them, allowing end producers to operate reliably at speeds of up to 2,600 ends per minute (EPM) today and prepare confidently for future performance levels of up to 3,500 EPM, without compromising stack quality or line stability.

Safeguarding productivity and competitiveness

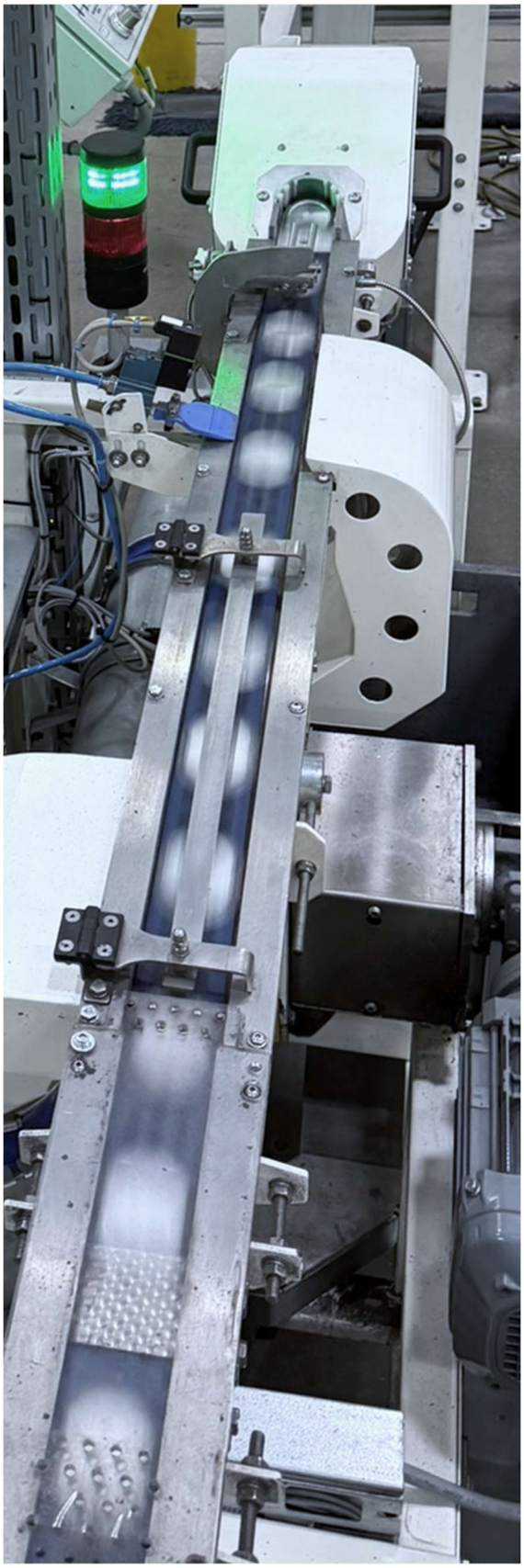
By reducing stoppages and minimizing the need for fine-tuning and operator intervention, the Dynamic Hopper Technology helps end producers increase effective output and protect productivity over time. The first application of the Dynamic Hopper Technology is the Liner Discharge Conveyor DH for new projects, also available as a retrofit upgrade (Dynamic Hopper LD) for existing liner generations. The solution enables capacity and uptime improvements without major layout changes or extensive rebuilds.

Proven performance impact

- **Up to 10% higher production output** compared to traditional vacuum hoppers
- **Stoppages reduced by at least two-thirds**
- **Lower risk of compound splashes**, improving line stability and cleanliness

Key advantages

- **Higher conveying uptime** through a more tolerant stacking principle
- **Increased effective capacity** with fewer interruptions
- **Reduced operational sensitivity**, limiting manual adjustments
- **Future-ready design** supporting higher speeds and long-term competitiveness



NPB designs, develops and manufactures automation equipment for the packaging industry. We have top-rate expertise in mechanics and design as well as thorough knowledge in the development and manufacturing of automation equipment. The organization is customer-oriented and flexible with the aim to deliver intelligent machines that are simple to handle.

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