



BECCS and BCCS

Pre- and post-fill can coding solutions



Domino. Do more.

BECCS and BCCS, the pre- and post-fill Can Coding Solutions from Domino

Integrated Code Validation & Rejection

Our integrated vision and rejection system in both **BECCS** and **BCCS** detects errors in real time, catching mistakes and rejecting them before they become costly, stopping the line and warning you if the problem persists. This ensures that only the right cans make it through, reducing downtime and maintaining production quality.

Sustainability with Precision

Our two solutions are designed to reduce waste and operate without consumables like ink. This approach aligns with your green initiatives, helping you meet your sustainability goals.

Enhanced Operator Safety

Designed with integrated protective guards, both systems ensure Laser Class 1 compliance. They incorporate additional safety features, such as safety interlock switches or a powerful fume extraction system, that help to maintain the safety of your line.

Pre-fill Coding Means Cutting on Waste & Reducing Costs

Minimise waste by discarding only empty cans when errors occur, drastically cutting product loss and disposal costs with **Domino BECCS**. Our system also reduces labour time spent on moving, emptying, and recycling, allowing your team to focus on what matters.



Domino Beverage Empty Can Coding Solution (BECCS) central module



CAN ID, our most advanced code validation system



Advanced performance in both **BECCS** and **BCCS**

Experience the superior coding precision of Domino **F-Series** lasers, integrated with advanced error detection and rejection systems.

High-Speed Precision Coding

Achieve unmatched performance with coding speeds of up to 100,000 cans per hour. Domino's laser system keeps up with the fastest production lines, delivering consistent, high-quality codes without compromising accuracy or line performance.

Improve uptime

Laser coders require almost no planned maintenance and are inherently more reliable than conventional coding technologies, reducing your planned and unplanned downtime.

Save on consumables

Domino lasers require no chemicals, solvents, or acids, so you don't need to deal with purchase, consumption, storage or packaging disposal for fluid consumables.

Automated Coding Compliance Confidence

Domino lasers create clean, crisp codes time after time, reducing defect waste from poor code quality. Our CAN ID code validation system checks every can to achieve compliant, accurate and ready-for-market codes.

Easy Can Format Changeovers

Easily adapt to different can sizes and formats with minimal downtime. Our solution allows for swift, efficient changeovers, keeping your production line running smoothly and reducing costly delays.

"We have seen improvements in our business results after coordinating with Domino for our coding needs. Domino has done a great job and exceeded expectations in our production environment: customers are satisfied, and our brand is protected."

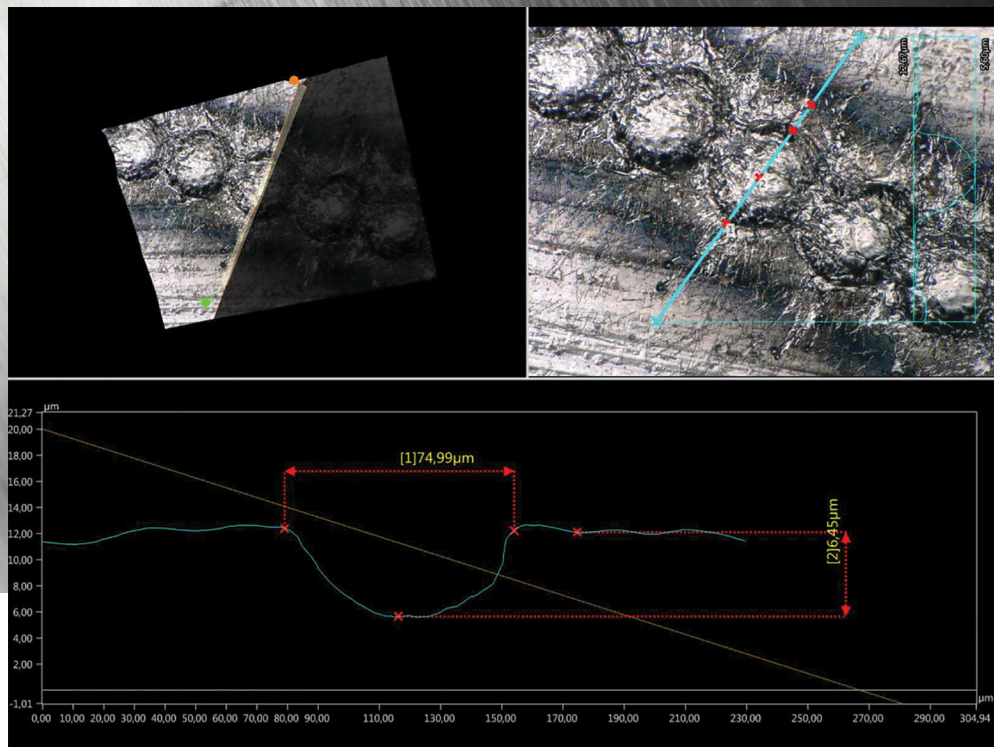


Sabri Kundakcioglu
Senior Vice President,
Operations & Supply Chain
at Pepsi Bottling Ventures Plant



**READ THE WHOLE
CASE STUDY HERE**





Accurate, indelible codes every time

We understand the importance of accuracy, reliability, and efficiency in your production line. **BECCS** and **BCCS** are designed to meet the highest standards, ensuring your products always stand out with clear, high-quality codes.

Superior Code Quality

Achieve clean, clear, and indelible markings with our laser coding solution. Whether you're working with smooth or concave surfaces, you can expect high-quality codes that enhance readability and product presentation.

Code through condensation

Codes provided by conventional coding technologies can be affected by condensation on the can surface. Domino lasers are designed to provide coding, even on wet surfaces, removing the need for can drying systems – this will save you money and energy, and reduce the overall footprint of your production line. What's more, you'll have crisp code quality on every can.

Durability and Longevity

Our laser-coded marks are permanent, designed to withstand the toughest environmental conditions. From moisture to physical wear, your codes will remain intact and legible throughout the product's lifecycle, ensuring long-lasting durability.

Easy on your substrate

Domino laser coders engrave substrate surfaces at a depth of 6 to 8 microns, which is 10 times shallower than the width of a human hair, ensuring your cans' integrity is never compromised. By following a scientific testing process Domino precisely tunes the laser to your substrate, so your product's properties remain totally unaffected.



Your safety, our commitment: a partnership in care

Efficiency you trust, safety you can rely on

At Domino, we believe safety is more than just a feature – it's a shared value. Knowing that behind every machine are people who matter, we are deeply committed to safeguarding their well-being at every step of their work. Safety was the driving inspiration behind the creation of **BCCS** and **BECCS**; every component has been thoughtfully designed to support you and your team, ensuring that work not only gets done but gets done with care and confidence.

Guarding

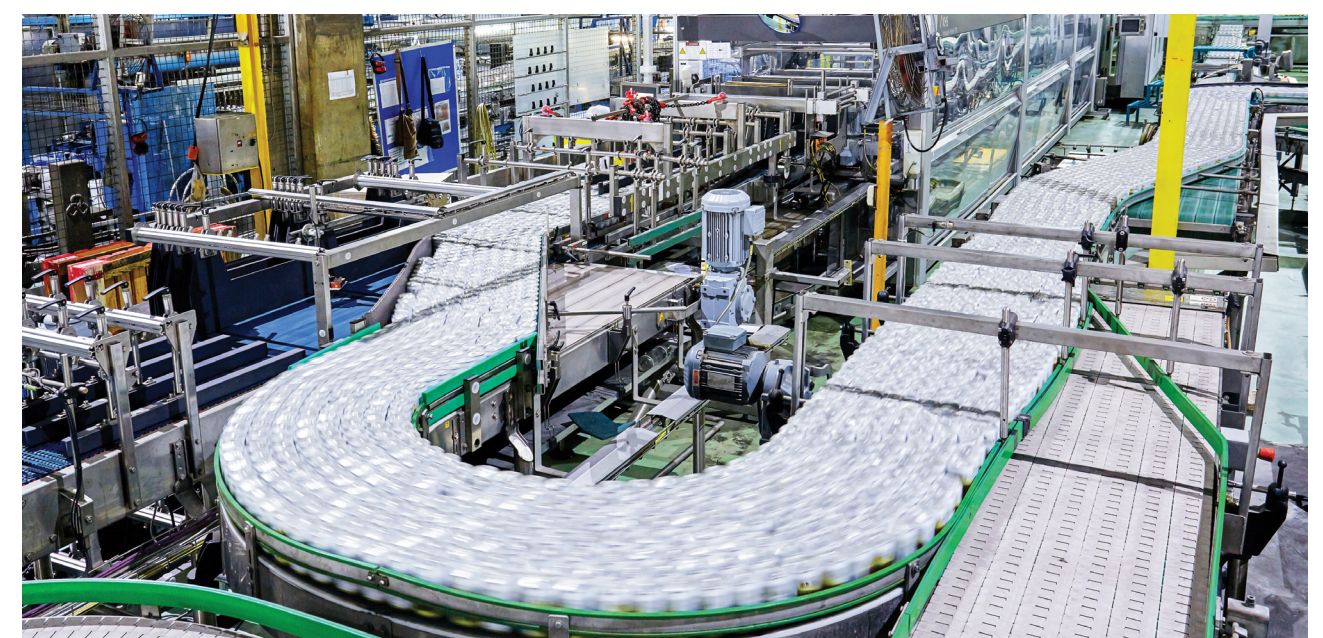
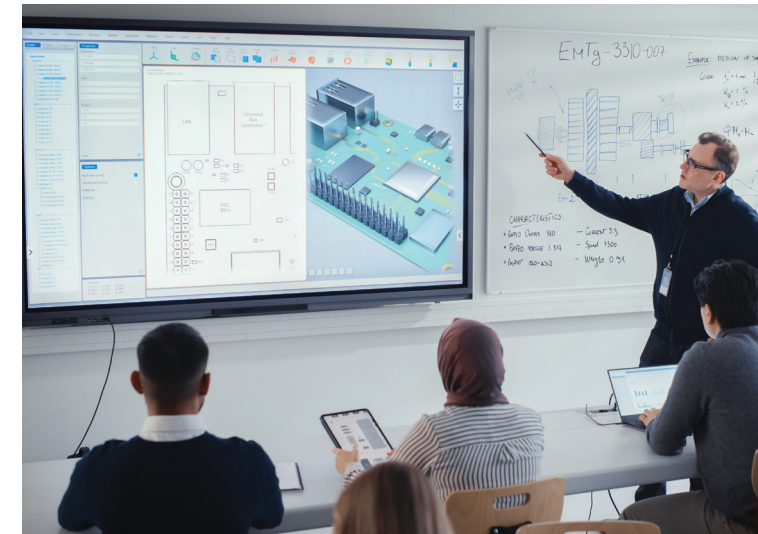
Our protective guard system for laser coders is designed to achieve Laser Class 1 safety compliance, the highest standard for safe laser operation. By enclosing the laser area, these guards create a controlled environment where laser emissions are effectively contained. This level of safety compliance is crucial in high-performance industrial environments, providing peace of mind that safety standards are rigorously upheld without impacting productivity.

Fume and particle extraction

The extraction unit is a high-performance system that removes harmful fumes and particles, using advanced recirculating filtration for air cleaning. Designed for heavy-duty use, it offers large filter capacity, powerful airflow, real-time monitoring, and automatic airflow adjustments. This intelligent system enhances safety and performance, and reduces maintenance costs.

Other safety measures

The laser is positioned to code the cans above the centre of the can bottom, effectively controlling laser emissions by minimising reflectivity and the impact of the can's shape. For added protection, the entire system is equipped with safety interlock switches, preventing any access until the system is safely stopped. Additionally, comprehensive training is provided to all operators, ensuring they are fully equipped to use the system correctly and safely, further enhancing overall workplace safety.



Pre-fill coding means more sustainable and cost-saving coding

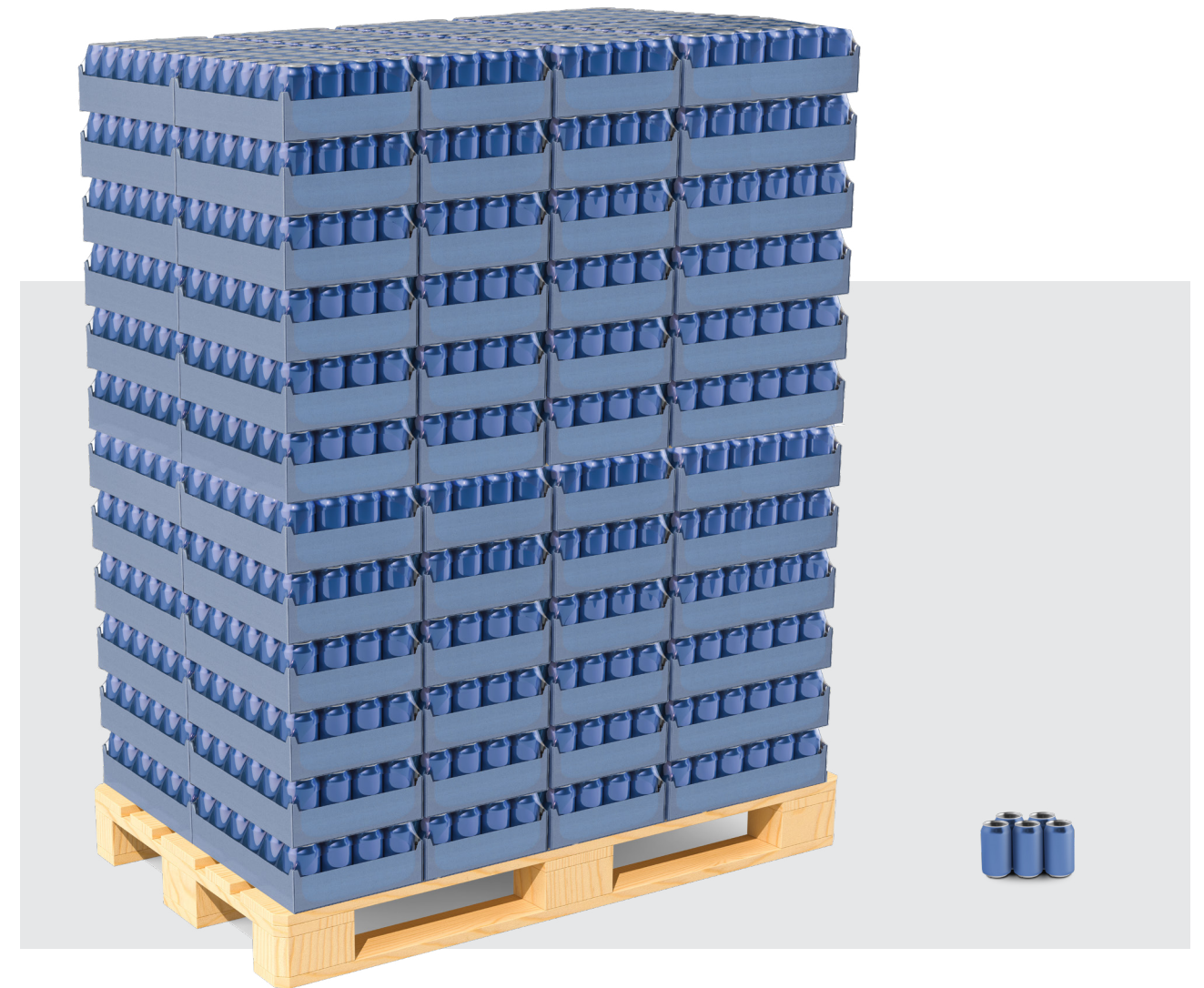
Reduce waste, cut costs, and save valuable labour time with **Domino BECCS**.

When operating at high speeds, even a few minutes of defective codes can result in hundreds of full cans that need to be managed. Handling, emptying, and recycling these heavy loads is not only wasteful and costly but also consumes valuable labour time; time that could be better spent on other tasks.

Combining pre-fill coding with our integrated CAN ID validation and rejection system ensures that only a few empty cans are discarded when errors occur. If the system detects a persisting issue, it will stop the line, warning the operator that something is wrong. This means you eliminate only what's necessary, drastically reducing waste of cans and product.

BECCS also frees up valuable labour by eliminating the need to handle, empty, and recycle full cans and eradicating periodical manual inspections. With fewer empty cans to manage, your operator's and maintenance team's time is optimised, and your processes are streamlined and more efficient.

More sustainable, more efficient – our solution is designed to enhance your workflow while protecting your bottom line.



A Real Example: From Tonnes of Waste to Grams of Prevention

It's striking how quickly undetected defects can escalate into significant waste. At a line speed of 90,000 cans per hour, just 104 seconds of defective production – only 1 minute and 44 seconds – results in a full pallet of 2,592 cans, weighing 894 kg and containing nearly 900 litres of wasted product. These cans would then need to be transported, emptied, and crushed to be recycled.

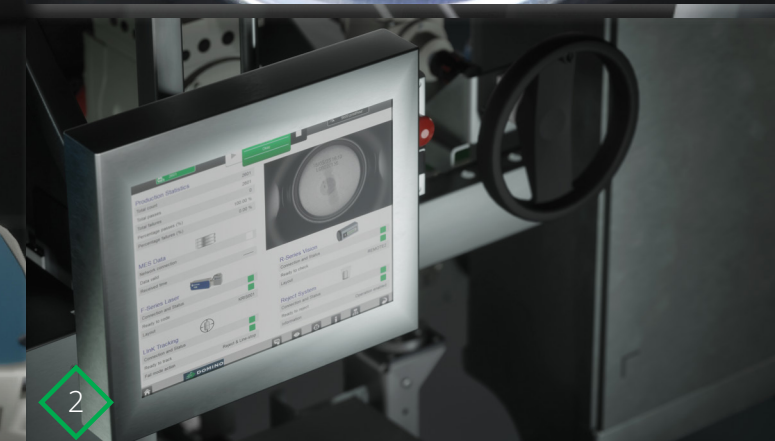
In contrast, Domino Beverage Can Coding Systems can be programmed to stop the line after a certain number of rejections. Five empty cans, for example, weigh only about 75 grams, and they can be easily processed without wasting any product.



Coding the cans from below

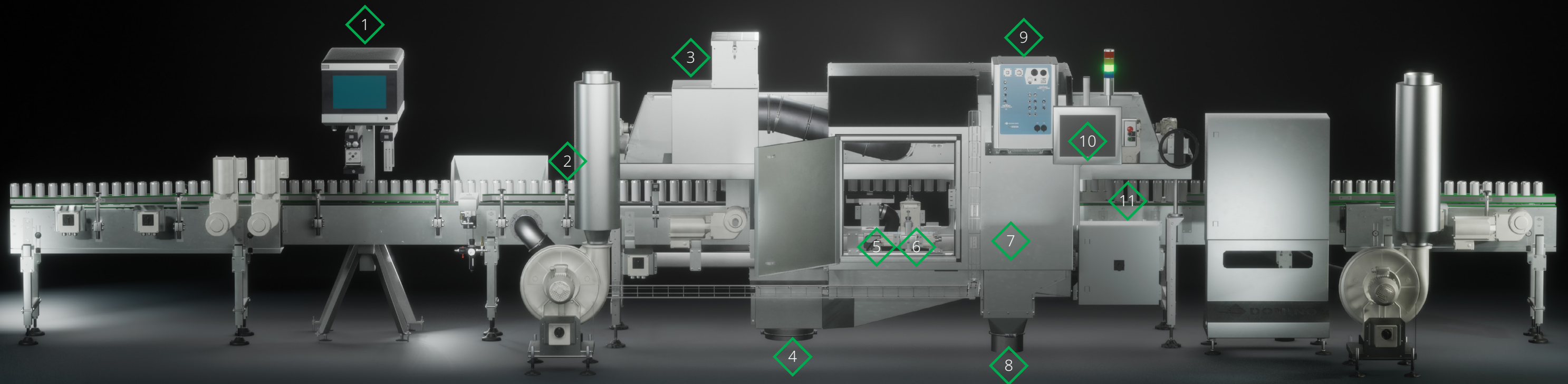
Cans are suspended by an innovative product handling system. The vacuum bridge takes cans from the conveyor and places them in the ideal position for coding, reducing the risk of faulty codes caused by conveyor vibrations and movements. This ensures accurate alignment and prevents errors, allowing for smooth and efficient coding.

1. Cans are coded pre-fill, eliminating the need for can twisters or additional guides. This not only simplifies the process but also enhances the integrity of the can.
2. CAN ID examines the cans immediately after they are coded, ensuring that only high-quality cans proceed further.
3. The integrated rejection system automatically discards sub-optimal cans, ensuring that only properly coded and inspected cans move forward in the production line. This system also eliminates manual inspections, freeing labour time.



Everything in one single system

BCCS and **BECCS** combine laser coding, validation, and rejection into one integrated solution, offering unmatched efficiency and simplicity on your production line. With a single installation, our coding systems eliminate the need for multiple suppliers, ensuring compatibility across all functions. This unified setup reduces complexity and ensures that all components work in perfect harmony, delivering consistent, high-quality results. Plus, with one point of contact for maintenance, troubleshooting, service, and support, **BCCS** and **BECCS** streamline operations and simplify management – helping you keep your production line running smoothly with minimal oversight.



Domino Beverage Empty Can Coding Solution (BECCS)

- 1. Space for can integrity validation and rejection system
- 2. Can Infeed
- 3. Vacuum Bridge

- 4. Fallen can reject chute
- 5. Laser coding
- 6. CAN ID – Validation System
- 7. Rejection system

- 8. Reject Pusher Chamber
- 9. Integrated Domino Controller
- 10. HMI
- 11. Can Out Feed

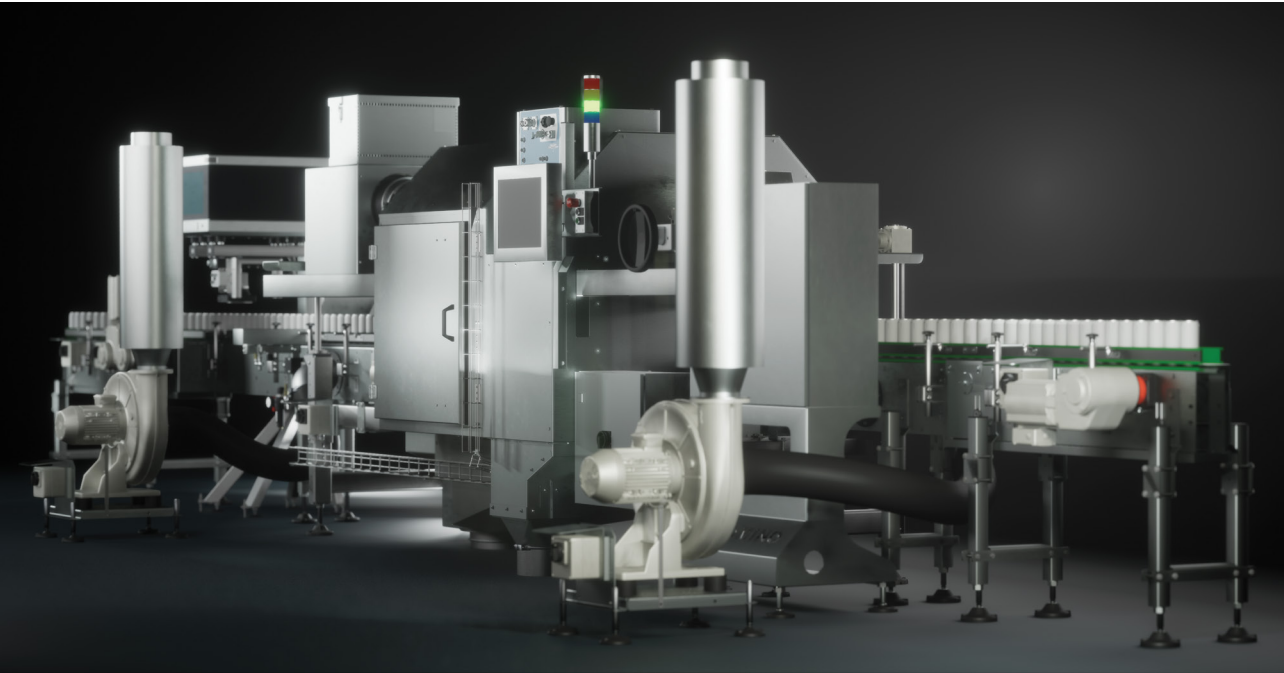
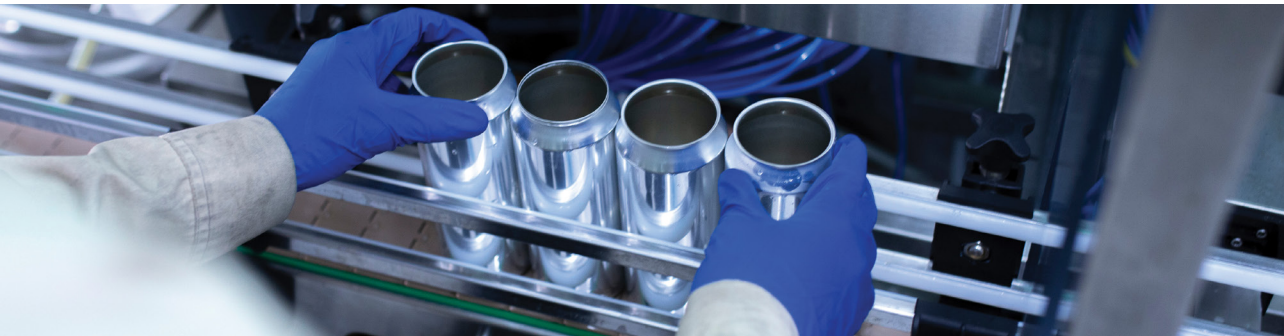
Extraction unit can be installed on the ground floor

Choosing the right solution for your line

BCCS or BECCS?

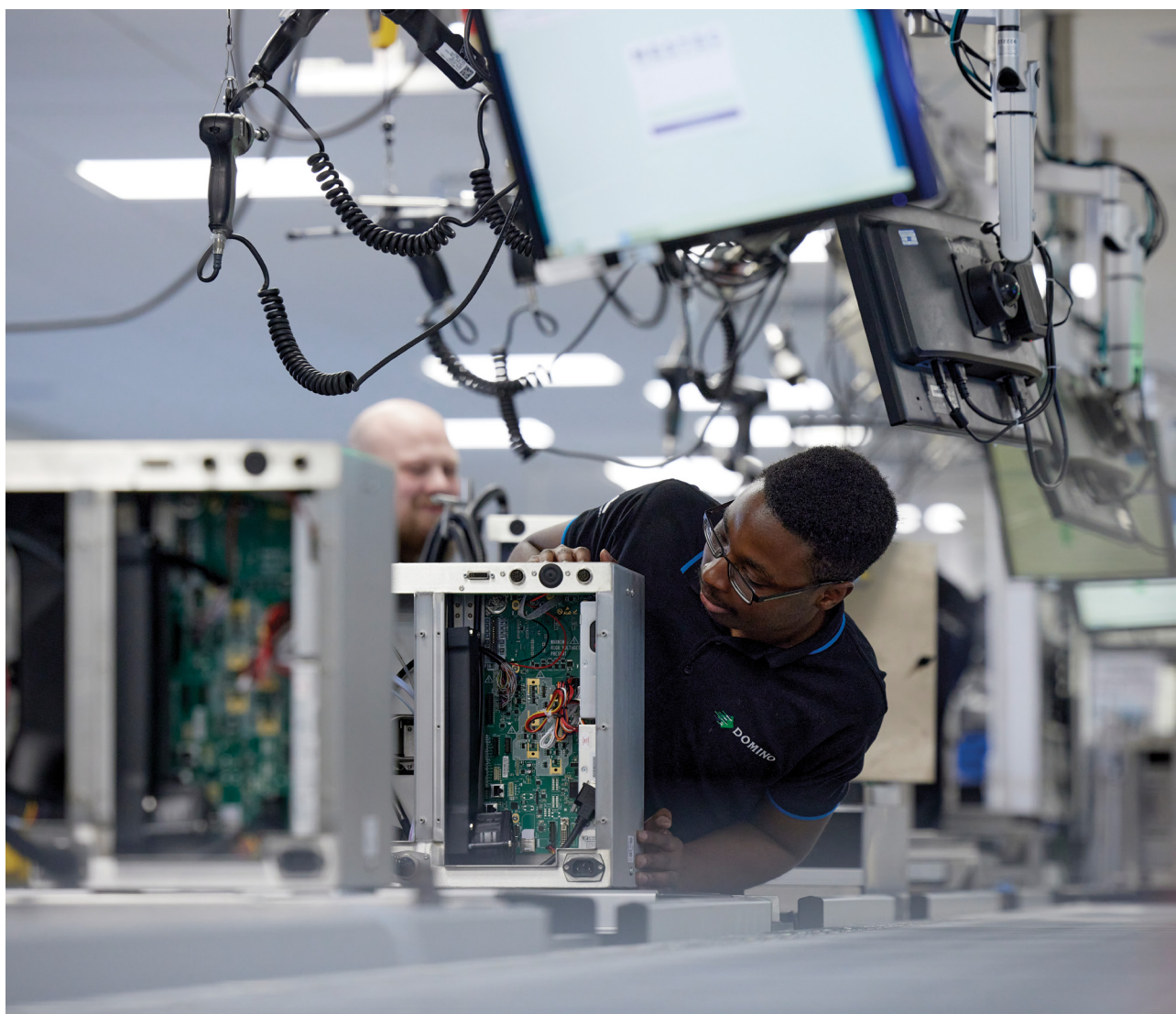
BCCS is ideal for companies with established production lines looking for a high-quality coding upgrade without major line modifications. Designed for easy integration into existing setups limited for space or with substantial product handling complexity. This solution offers reliable, consistent coding on filled cans, making it an excellent choice for businesses seeking to improve compliance and code quality with minimal disruption.

BECCS is perfect for companies looking to reduce waste, save costs, and enhance sustainability. Discarding only empty cans when errors occur, **BECCS** drastically cuts product loss and disposal costs. This approach minimises waste, conserves resources, and frees up valuable post-fill space on the production line. This solution is ideal for businesses focused on maximising efficiency while prioritising environmental impact.



Benefits	BCCS	BECCS
Consistent high-quality codes even at high speeds	✓	✓
Enhanced operational efficiency vs inkjet	✓	✓
No need to dry the cans	✓	✓
Tamper proof and moisture resistant	✓	✓
Code automation, validation, rejection, all from the same supplier	✓	✓
Higher safety standards than other laser solutions	✓	✓
Coding compliance confidence	✓	✓
Fully automated thorough code validation assurance	✗	✓
Cost saving from rejection of empty versus full cans	✗	✓
Enhanced can integrity	✗	✓
Free post-filling space that would have been dedicated to coding	✗	✓





Our Sustainability Commitment

We strongly believe that corporate responsibility is integral to business success, and we are firmly committed to the welfare of our stakeholders, including our communities, employees, environment, value chain, and partners. Domino acts on corporate social responsibility through four main pillars:



ENVIRONMENT

Domino is committed to protecting the environment by reducing its environmental impact.

PEOPLE

Domino is committed to ensuring compliance with human rights and working conditions, developing a great working environment for its employees to thrive and develop as well as promoting diversity across the organisation.

SOCIETY

Domino wants to give back and have a positive impact in the local communities in which it operates. Domino also supports the development of its current and future generations through education.

CUSTOMER

In parallel to making Domino a more sustainable organisation Domino aims to partner with its customers to develop and offer solutions that support its customers' sustainability ambitions.



Learn more about our commitment, goals, and approach to sustainability

What can you expect when working with us?

UNDERSTANDING OF YOUR NEEDS

- *You'll set up your goals and priorities, and we will review them together*
- *We'll carry out assessment visits to better understand your needs*
- *You'll always receive honest and transparent communication*

PROPOSAL & PLANNING

- *We'll use samples and information to find the best solution for your needs*
- *You'll receive a clear proposal with steps, timelines, and transparent cost breakdown*
- *We'll review and approve the solution together*

IMPLEMENTATION

- *We'll test each printer with your configuration in our labs before shipping*
- *Your team will be trained to maximise the efficiency of your new system*
- *We won't sign off the solution until we have fully implemented and tested it*

OPTIMISATION & AFTER-CARE

- *Our Customer Success teams will strive to make sure that the solution lives up to our commitments, and you maximise the return on your investment*
- *We'll monitor and service your solution to optimise its efficiency*
- *You'll be able choose the level of support you need*

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TALK TO AN EXPERT

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