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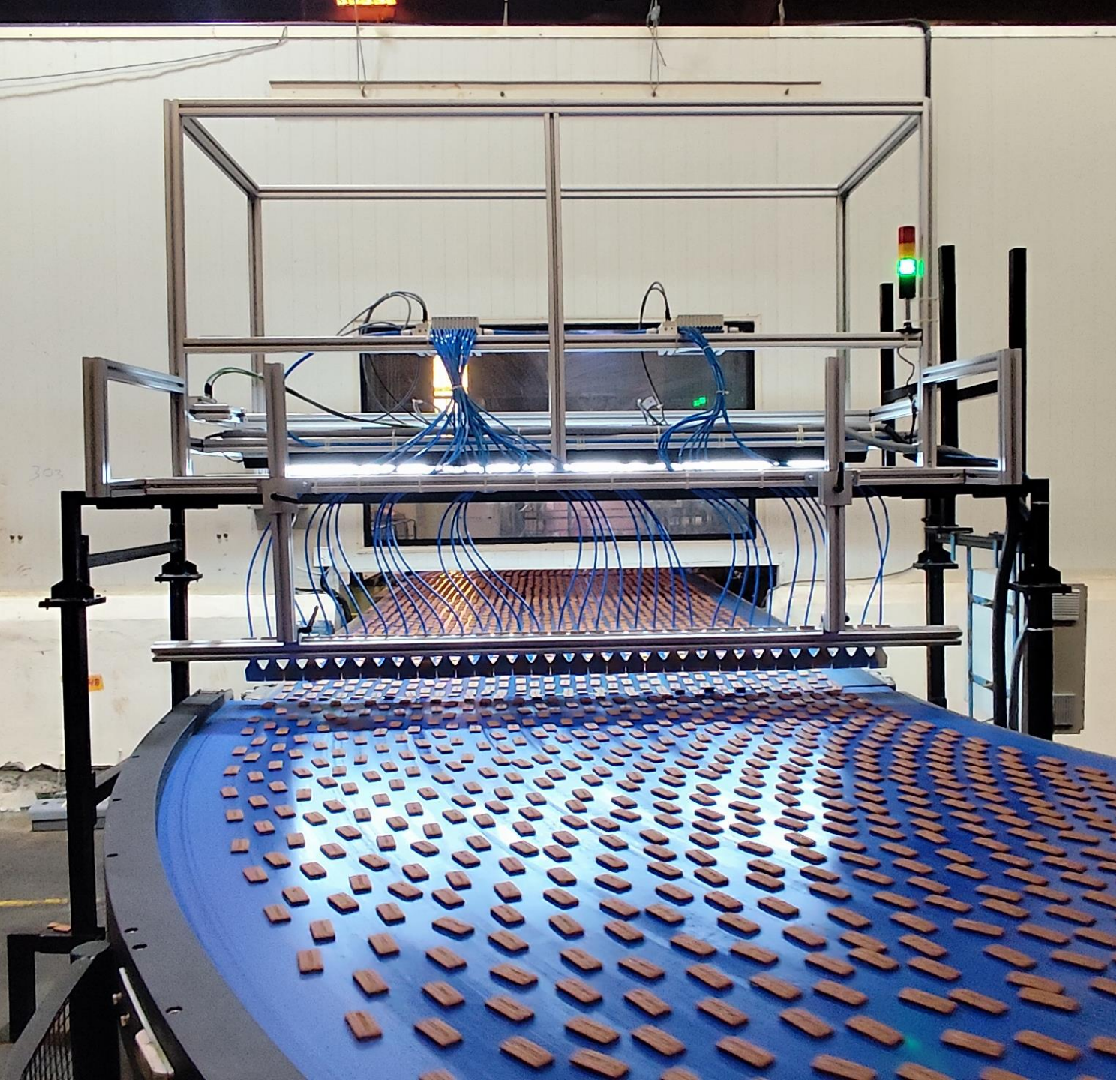
TECHASOFT PVT LTD

ML Based Ejection System

Leveraging advanced machine learning models to identify and segregate defective biscuits is a groundbreaking aspect of our innovative ejection system project.



Project Overview

The ejection system project aims to revolutionize quality control in biscuit production by utilizing machine learning algorithms for the precise detection and separation of defective biscuits in real-time.

Importance of Detecting Defected biscuits

Accurate detection of defective biscuits is paramount for maintaining product quality, reducing waste, and ensuring consumer satisfaction in the food industry. By implementing our advanced defect detection system, we guarantee that every biscuit meets the highest production standards, thereby reinforcing brand reputation and fostering customer trust. Additionally, our automated system eliminates the need for manual inspection and removal of defective biscuits, streamlining operations and allowing your workforce to focus on more value-added tasks. This technological advancement not only boosts efficiency but also significantly cuts labor costs, ensuring a more sustainable and profitable production process.

Efficient separation process.

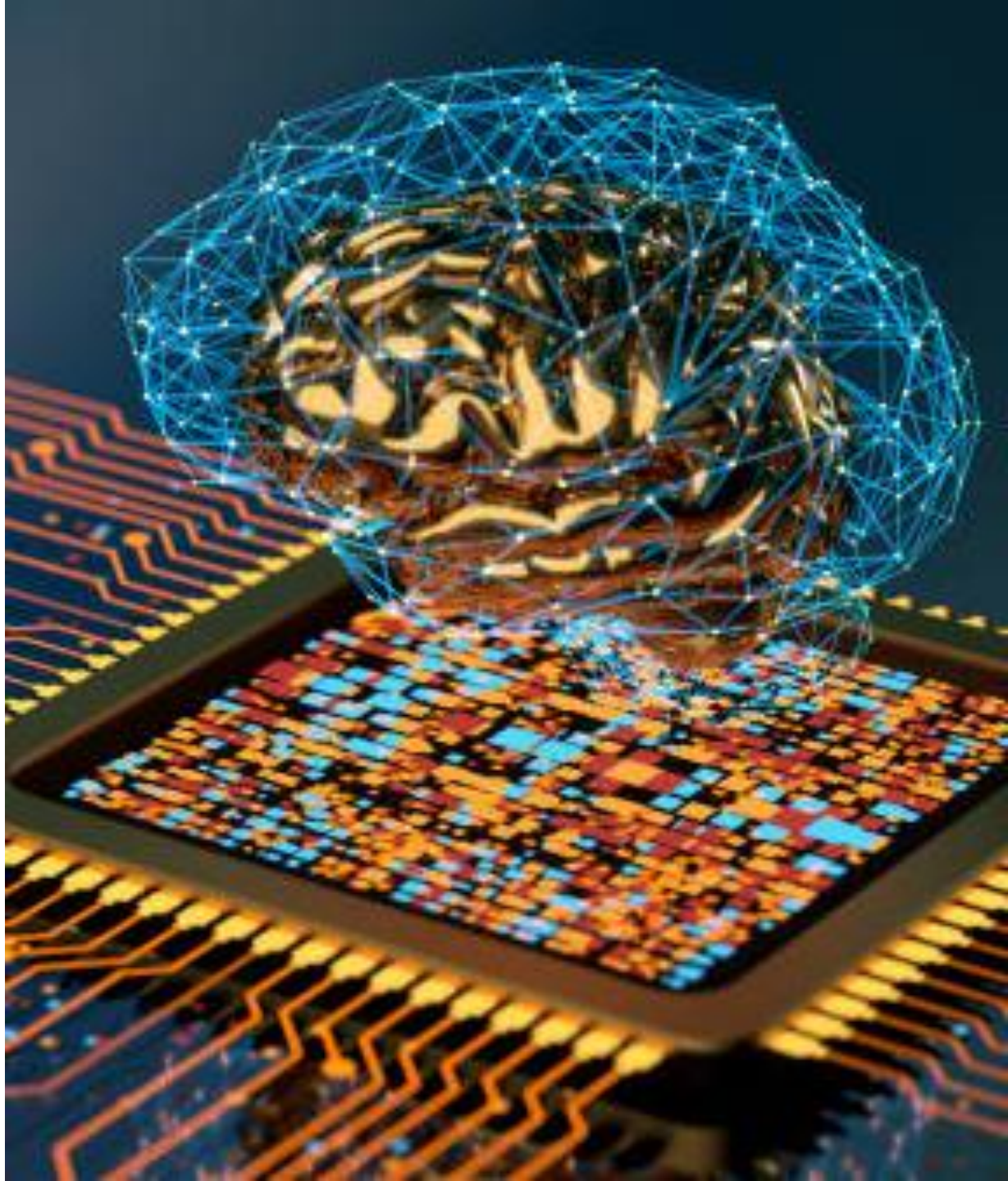
Implementing an air ejection system enables the rapid and efficient separation of identified defective biscuits, there by optimizing the production line.

Machine Learning for Ejection System: Achieving Precision

In our ejection system, we leverage advanced machine learning techniques to ensure exceptional performance. Our model, trained to detect specific features in various contexts, boasts a remarkable 99% detection accuracy. This high level of precision is achieved in two critical scenarios

- **Bourbon Detection:** The model accurately identifies and processes bourbon-related features with outstanding precision, ensuring reliable operation in environments where bourbon is present..
- **Pure Magic Detection:** Similarly, our system demonstrates flawless performance in detecting pure magic elements, maintaining the same high standard of accuracy and reliability.

This accuracy not only enhances the efficiency of the ejection system but also guarantees superior performance in diverse operational contexts. Our machine learning approach enables precise detection, minimizing errors and optimizing the system's overall effectiveness.



Our Promises: Excellence in Detection & Rejection

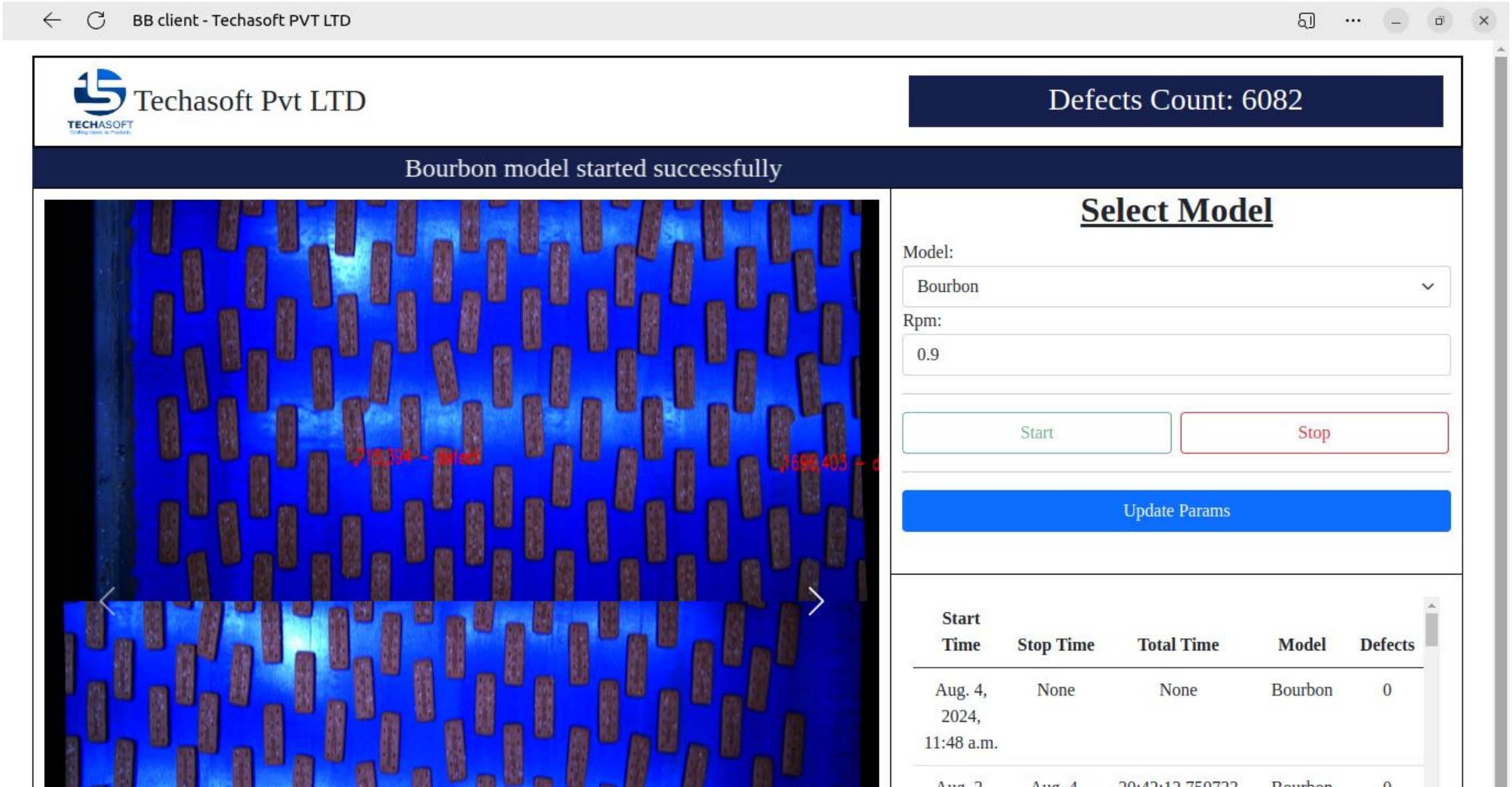
At the core of our ejection system is a commitment to quality, precision, and reliability. We promise to deliver the following

- Our machine learning model achieves a 99% detection accuracy in bourbon and pure magic scenarios, ensuring reliable and precise operation.
- The ejection system operates with high efficiency, processing items quickly without compromising on accuracy. This ensures a smooth and uninterrupted workflow.
- Designed to withstand various operational conditions, our system maintains its high performance and reliability, reducing downtime and maintenance needs.
- We are dedicated to ongoing research and development to further enhance our detection capabilities and adapt to new challenges, ensuring our technology remains at the cutting edge.
- Our team provides comprehensive support to ensure your system is always running optimally. We are committed to addressing any concerns promptly and effectively.

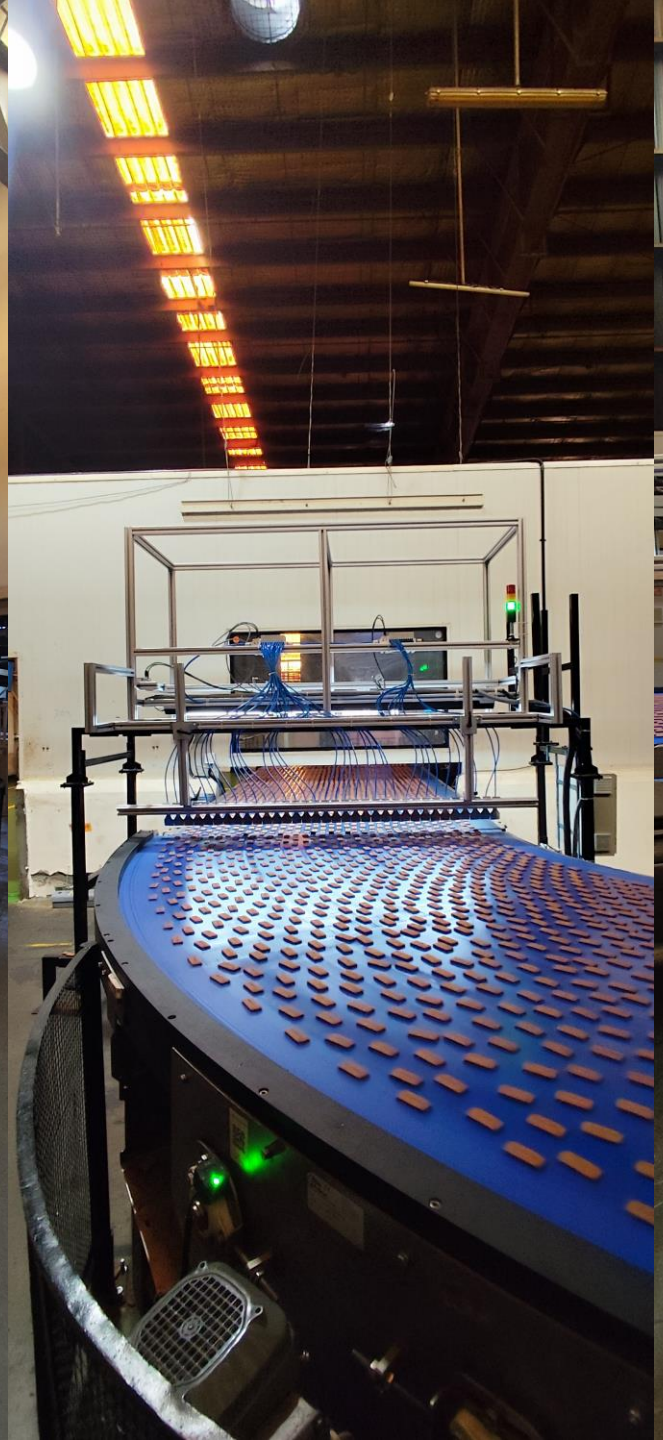
About Software Interface

- **User-Friendly Interface:** Our software is designed for ease of use, allowing even non-technical personnel to operate it effortlessly.
- **Automated Operations:** The entire process is automated, requiring minimal user intervention.
- **Single Interface Management:** A single desktop application interface manages all machine operations, simplifying the user experience.
- **Product Selection:** Easily select the product variant and set the RPM with just a few clicks.
- **Simple Start/Stop Controls:** Start the machine by clicking the start button and stop it by clicking the stop button.
- **Live Monitoring:** View live images of the production process to monitor real-time operations.
- **Defect Count Display:** See live defect counts to stay informed about the number of defective items being detected and ejected.
- **Comprehensive Logs:** Access detailed information about machine operations, including start/stop times, total running time, and product variants processed.
- **Defect Rejection Data:** Track the number of defects rejected during specific time periods on which product variants.
- **Enhanced Efficiency:** The software streamlines machine operation, reduces manual labor, and improves overall production efficiency.

Product Images along with Software Interface





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Thank You

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