



## WinCos® plant control system

**Smooth processing of cocoa beans  
and nuts for perfect products.**

### WinCos® for cocoa and nuts: The solution for successful automation

Optimize the cost of processing the raw materials and protect valuable ingredients. Therefore efficient production processes are needed to successfully process cocoa beans and nuts. The production processes adapt flexibly to new requirements and can be controlled at any time. WinCos® is the intelligent plant control system (MES) for reliable and high-quality cocoa and nuts production that has been successfully tried and tested worldwide. With its modular design, it can be flexibly adapted to the size of the line and its functional requirements.

#### Operational excellence and top product quality

WinCos® offers the option of a seamless interface with the ERP system. Once orders and recipes have been created and processed in the system, they are transferred directly to the plant control system.

In addition, WinCos® helps with the planning of production and provides support for improving utilization. Comprehensive recipe management ensures optimum reproducibility and hence consistent product quality at the highest level.

Automatic production adjustments in combination with the scales helps to achieve intelligent optimization of the use of raw materials, and hence reductions in operating costs.

#### Top production reliability and traceability

If required, WinCos® will document the process steps and changes to parameters and settings, including a time stamp and operator name.

Production steps can be consistently traced – from the raw material to the finished product. A clear graphic visualization shows the production details of completed processing steps of every lot. This assures traceability and maximizes food safety.

Detailed job and batch reports including customer-specific parameters provide valuable support for the early detection and elimination of production problems. This improves the efficiency and availability of the plant in a sustainable way.

#### Advantages

- Complete, integrated plant control solutions
- Efficient production planning and maximum product quality
- Highest production reliability and traceability
- Easy-to-use and intuitive operation

## Full control of processes and parameters. For top production reliability.



WinCos® combines Bühler's comprehensive competence in cocoa and nuts processing and automation.

### The optimal roasting of cocoa beans and nuts

Whether cocoa beans or nuts, the optimal roasting is fundamental for both products. WinCos® plant control saves energy costs and increases performance. The overview of the most important parameters hot air and moisture ensure a controlled roasting process. Changes in recipes are saved in order to achieve constant quality with optimal use of resources.

### Convenient operation and monitoring integration

WinCos® provides intuitive control of all functions and settings via an easy-to-use and intuitive graphic interface. As a result, operators can quickly intervene in production processes if required. This helps to minimize operating errors and increases the availability of the plant.

Furthermore, with the PocketPlant service, remote monitoring of the production lines becomes an easy task. The service can be used to monitor the status via a mobile app and provides active notifications of line errors to operators. This significantly reduces the time it takes to respond and to solve the error.

### Energy efficiency and management

If desired, WinCos® monitors energy consumption and supports operators in their effort to efficiently balance plant loads in order to sustainably reduce operating costs.

### Process experience and service for your success

Bühler is continually developing WinCos® and its related services in order to allow customers to benefit from new technologies such as the «Internet of Things».

As market leader and process specialist, Bühler has comprehensive practical experience in the design, commissioning and support of efficient automation solutions. In order to ensure that plants operate reliably and efficiently, Bühler maintains a competent service team to provide a fast and direct local service – round the clock and worldwide.

#### Bühler Service

We keep your production running and ensure maximum plant availability: our automation specialists are familiar with your processes and are available for you 24/7 worldwide.

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