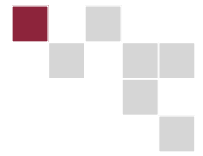


# ABB drives

## Low voltage AC drives - the perfect recipe for food and beverage





Competitiveness in the food and beverage sector is highly dependent on the efficiency of the entire value chain, with the primary focus being on the performance of the production processes. Examples of today's increasing challenges are high process uptime, permanent traceability, uncompromising hygiene and unbroken cold chain. Additional requirements include lowering energy consumption and minimizing maintenance costs. This leads to increased demand for ways to boost process control throughout the supply chain.

As the world's number one supplier of AC drives, ABB's products bring superior process control, savings in energy consumption as well as in operational and maintenance costs. Modern AC drives can help offset the squeeze on profits caused by changes in buying behaviour and increased quality demands, whether in processing, packing, transportation or storage.

## Automating the future

Recent years have seen a dramatic increase in the level of automation and, in particular, the use of variable speed drives – specifically AC drives. Automation leads to less errors in production, while optimizing processes and making them easier and faster. In addition, automation products can help solve challenges, such as:

- the demand for increased reliability, process uptime and productivity
- the requirement for higher quality of final products as well as production machinery



- increasing energy price
- replacing existing machinery with equipment that provides better control and flexibility
- ever stricter regulations on food hygiene and safety
- growing public concern for both health and lifestyle
- the need to improve traceability of ingredients and shipped consignments

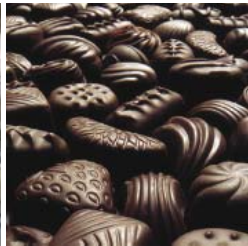
## ABB drives – highly reliable, energy and cost efficient

AC drives are primarily used to adjust the speed and/or torque of AC motors. AC drives replace many traditional techniques of controlling complete production lines or individual machines used throughout the food and beverage sector.

For over 30 years ABB has been supplying AC drives to the food and beverage industry. Today, AC drives are used widely in all kinds of processes from the raw material handling to pumping and mixing of ingredients; from processing to conveyor and fan control; as well as during packing and storage. The benefits of AC drives are considerable improvements in plant efficiency, energy savings and reduced wear on moving equipment. In addition, ABB drives bring:



# Profile



- higher quality of final products through more precise control of conveyors, pumps and other machines, achieving optimum flow rates, pressures, temperatures and volumes
- increased level of automation leading to better control of the entire processes
- minimized energy consumption
- additional energy savings thanks to the high efficiency of ABB drives
- accurate dosage of ingredients
- permanent traceability via versatile communications capabilities, enabling real-time data collection
- improved electro-magnetic compatibility and low harmonic emissions

All this has a major impact on the financial running of the plant and can help to:

- increase plant throughput
- reduce energy costs
- maximize process up-time
- minimize maintenance costs
- comply with legislation and regulations

## How ABB can help

Throughout all stages of various production processes in the food and beverage sector ABB offers:

- wide product range from pushbuttons to complete automation systems
- versatile services from technical support to plant engineering and energy audits
- global presence and local support in over 100 countries
- extensive channel partner network
- tailor-made customer training



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