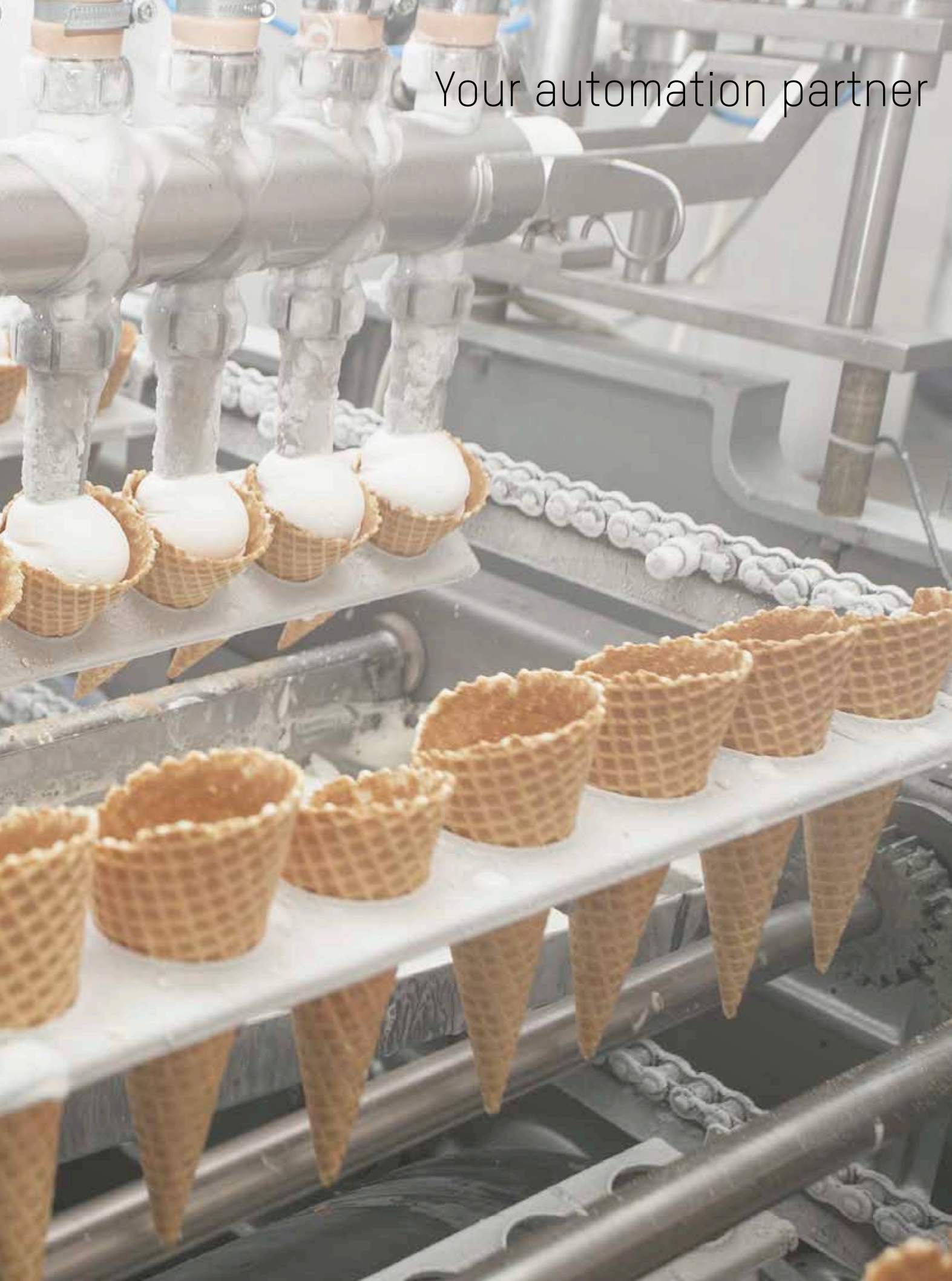# Innovative technology and products for consumer goods industry

PERFECTION IN AUTOMATION
A MEMBER OF THE ABB GROUP

B&R

Your automation partner

for the consumer goods industry

Food production

Beverages production

Home and personal care production

Tissue and non-woven production

Tobacco production

Process Control

Optimized process control and system efficiency requires innovative strategies that go beyond conventional PID controllers. Automating complex production processes efficiently and safely is now even easier with the B&R APROL process control system. Advanced Process Control (APC) makes it possible to control production even more precisely and make even better use of processing resources. This goes hand in hand with increased **O**verall **E**quipment **E**ffectiveness due to

→ Increased output
→ Significant reduction of manual intervention (increased automatic operation)
→ Reduced maintenance costs

Process Optimization

Thriving global competition, end-users have been turning to process improvements as a way to maximize operating effectiveness without compromising quality and safety. The perishable nature of the products, heightens the demand for reduced waste and shorter lead time.

→ Increased performance while maintaining product quality
→ Reduced energy consumption and use of raw materials

B&R technology offer end-users new opportunities for streamlining manufacturing and processing operations, integrating this technology seamlessly with the latest advancements in automation in a flexible, highly available and efficient way.

Your automation partner

Safety and Quality

Increasingly strict regulatory requirements demand integrated control across the entire value chain, from the raw materials to the end of the line. Trends taken from the pharmaceutical market, such as track-and-trace concepts, are making their way into all the consumer goods categories. Highly automated analytics are needed to facilitate high-performance quality control even in high speed lines.

B&R solutions allow offering customers more safety and more flexibility in their production lines.

→ Integrated vision inspection
→ Powerful image processing
→ Marking and waste detection with microsecond precision

Service and Support

Proactive support means much more than simply recover from equipment failures. It results in better performances and higher availability. Thus reducing your costs and building your competitive advantage.

B&R Partnership from start to finish and beyond:

→ Design and development
→ Training
→ Local support

for the consumer goods industry

Food grade components

The consumer goods industry relies on safe and sanitary proven parts and components as a way to produce in their harsh environments. In an industry as regulated as the consumer goods production, the highest standard of hygiene, easy cleaning and dust proof characteristics are expected. B&R wash-down stainless steel products fully comply with "food-grade" standards to ensure maximum hygiene and allow CIP cleaning.

→ HMI and PPCs
→ Motors
→ I/O modules

Brown-field Connectivity, The Orange Box

Upgrade brown field-installations to become "SMART" collecting and analyzing production performances of the already installed base with the possibility of sharing data with other production lines and with upper information layers as per the IoT or Indutry 4.0 concept.

→ Connectivity to all brown-field installations
→ No hardware or software changes to existing equipment
→ Based on the mapp technology application concept

Advanced approach to diagnostic: SDM

Until now, machine maintenance has been either performed when failure occurs or based on some heuristic periodic operations. With B&R technology, it is possible to stream functional status directly from machines so their health can be monitored in real time. This results in more efficient service concepts, reducing down-times and costs significantly.

→ Dynamically generated Web-based and
   with no programming required
→ Available on every line controller,
   built-in into the PLC operating system
→ Accessible from any device through Internet/Intranet
→ Operating System independent

Mapp. Application based software technology

Mapp Technology enables faster application development by 67% using already developed basic functions. The software engineers can then focus more on the innovations of the core process by leaving to the mapp already ready blocks the basic software functions. This results in quality of software is increased while the cost of its maintenance is significantly reduced.

→ User and Alarm Management
→ Parameter handling
→ Data recorder for instant views and analisys
→ Service functions like OEE, Energy measurement, PackML

Integrated automation
Global presence
Solid partnership

ETHERNET
POWERLINK

open
SAFETY