

Detergent line solution

Delivering high-quality tablets with maximum reliability, safety and efficiency

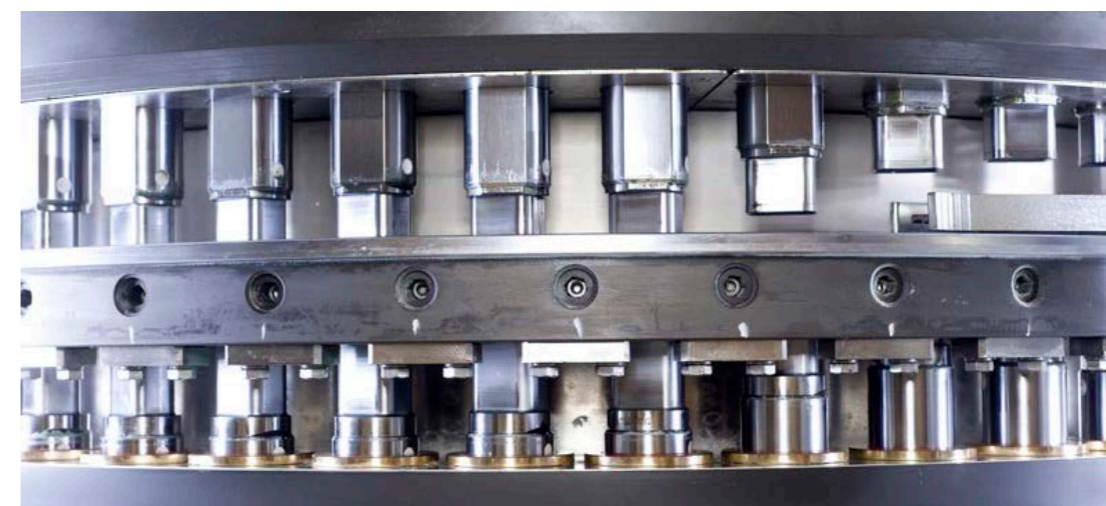
Helping you design, deploy and operate the complete detergent line

To a greater degree than other compacting and packaging processes, a successful detergent line is driven by a deep understanding of the interactions between powder formulation, compacting, and packaging.

Successful detergent compacting and packaging requires a broad range of technologies, expertise and services that Bonals Technologies and its partners uniquely offer.

Our comprehensive turnkey solution for compressing and packaging detergent tablets promises to address your main concerns:

- Offer an ecological concept to your customers : waterless and plastic free solutions
- An optimum risk mitigation for a high OEE of your line
- An overall synchronized process.



Technology is at the core of our business.

For over 110 years we have invested a significant proportion of our turnover in research and development.

As a result, we and our partners offer you one of the most advanced range of medium and high-speed detergent solutions on the market.



High performance

Overall equipment effectiveness (OEE) rate of 98% even in challenging conditions, and reduced maintenance cost by 30%



Innovative configurations

Optimized solutions combined with versatile range of equipment and accessories to match line speed, and packaging format.



Interoperability

Easy integration with third party production equipment and accessories within the primary and secondary packaging



User-friendly experience

Intuitive touch screen interfaces to minimize operator training and human errors



Innovative formulation expertise

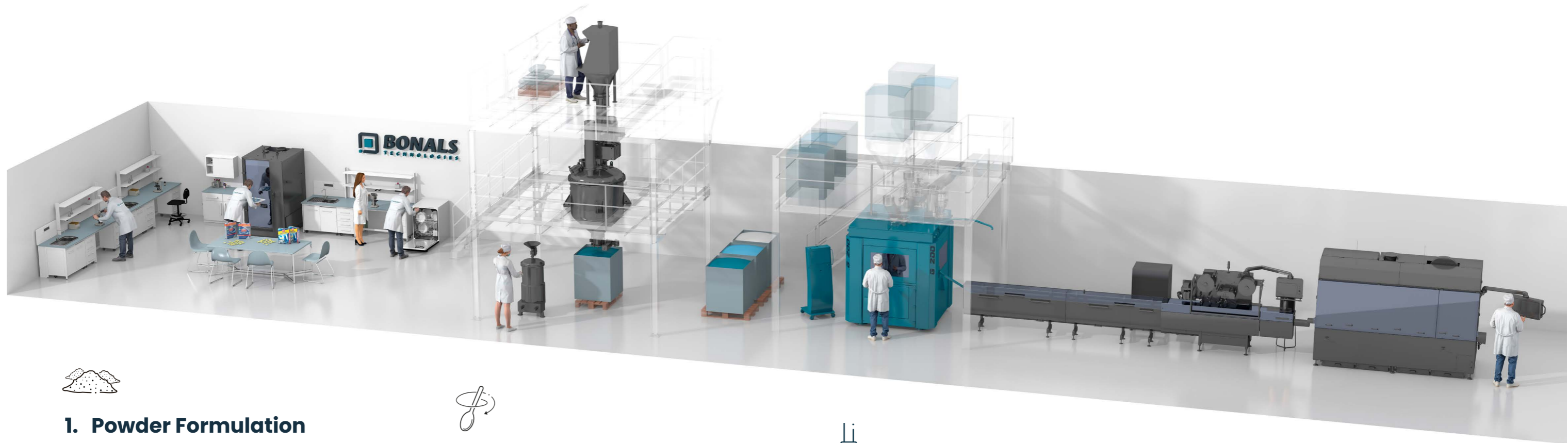
Inventive powder formulation, preparation and mixing to maximize cost efficiency and final customer satisfaction



Extended worldwide service

Quick, easy and consistent service throughout the entire solution life cycle, wherever you need it

Offering reduced footprint, optimal throughput and maximum return on investment



1. Powder Formulation

We support you in developing the best detergent formula to maximize your equipment efficiency, optimize your cost, and overall satisfy your end-consumer expectations and needs.



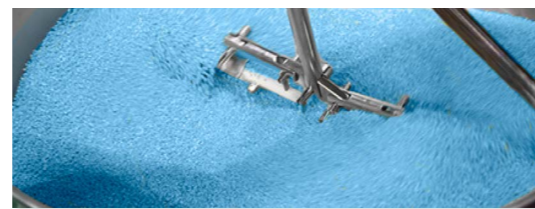
YOUR CHALLENGES

- High cleaning performance of the tablets
- Unique customer experience
- Profitable business plan



2. Powder Mixing

We adapt the mixing solution to your powder specificities and provide optimal connection with the tableting machine.



YOUR CHALLENGES

- Mixing process
- Powder flowability and granulometry
- Formulation efficiency



3. Compacting

We offer rotative press solutions adapted to your powder and production rate target, including CAPEX and OPEX optimization, from medium-to-high speed processing capacity.



YOUR CHALLENGES

- Press area temperature
- Press condition and maintenance
- Raw material cost optimisation



4. Wrapping

We help you select the most suitable wrapping and packaging solution, thanks to our long-lasting partnerships with world-class wrapping and packing equipment suppliers.



YOUR CHALLENGES

- Connection with press machine
- Wrapping material cost
- OEE of the line

Best-in-class equipment performance across the range, from medium-to-high speed bouillon lines



1. Powder formulation

From concept explorations to producing commercial tablets, our Innovation Center helps you develop your own detergent formulation, find the best raw materials, and test it to address the needs of more and more demanding customers for plastic free solution and natural materials. A performing powder formulation highly reduces your time-to-market and contributes to your overall line efficiency of your powder highly reduces your time-to-market and contributes to your overall line efficiency. In fact, apart from the temperature and humidity, the quality of raw materials and good interaction with the press are key.



2. Powder Mixing

We adapt the mixing solution to your powder specificities and optimal connection to the compacting machine. The complete range of supramix mixers is designed to mix solids and liquid together. For better flowing the screw conveyor combined with the G-series granulators turn heterogenous solid product into homogenous granules.

MIXING, GRANULATING, AND FEEDING EQUIPMENT

SUPRAMIX



Designed to mix solids and liquid together, this ribbon mixer is especially suitable for the mixing and industrial homogenisation in short time of detergent powders.

Output
From 1 to 10 Tons/h*

G-SERIE



Designed to turn heterogenous solid product into homogenous granules for better flowing and direct use or compaction.

Output
From 200 kg to 1,800 kg/h*

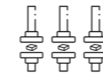
SCREW CONVEYOR



Vertical or horizontal press feeding for continuous dosing applications of powders and granules with absolute safety.

Output
Up to 600 kg/h*

*output depends on powder and operation conditions



3. Compacting

Our innovative rotary press range, from medium-to-high speed, helps you deliver high quality tablets with maximum efficiency from any challenging powders. Thanks to the adapted compression load, reduced powder waste and optimal connection to any wrapping machines enabling a gentle product handling. The HMI offers simple and intuitive control to ease operations, minimize human errors while optimizing maintenance and operator training.

LOW SPEED

BE40 | 1 Station



High-compression capabilities for easy and reliable operations of small and medium batches.

Output
Up to 350 tabs/min*

MEDIUM SPEED

M150 | 29 or 33 Stations



Efficient and reliable operations while keeping your investment low.

Output
Up to 900 tabs/min*

HIGH SPEED

G200 | 50 Stations



Fast, safe and reliable operations for large batches with maximum equipment availability.

Output
Up to 1,500 tabs/min*



4. Wrapping & Shrinking

We partner with Synchronpack and Theegarten-Pactec wrapping solutions to complete the full detergent line. Combined with our M150 press, Synchronpack offers the Pack 9000, particularly adapted for tablet wrapping at medium speed. For higher wrapping output rates, we enable direct connection with the Theegarten-Pactec FPC5 for an optimum process integration. Suitable shrinking solutions can be proposed as an option.

MEDIUM SPEED

PACK 9000



SynchroPACK
Tailor-made Flow-wrappers

Output
Up to 900 tabs/min*

HIGH SPEED

FPC5



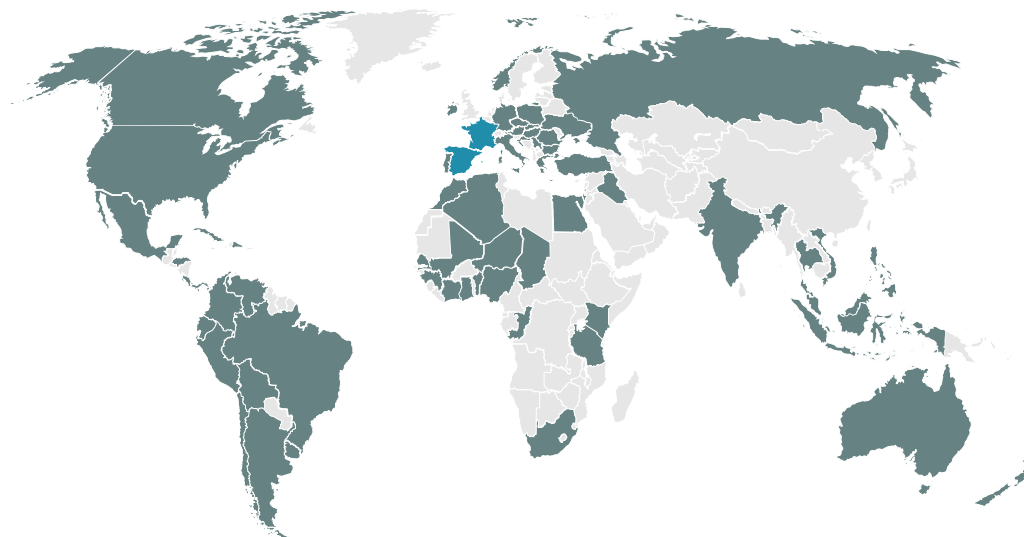
THEEGARTENPAC
TEC
smarter packaging

Output
Up to 1500 tabs/min*

*output depends on powder and operation conditions

About Bonals Technologies

Bonals Technologies is a compacting technology leader serving customers globally in Food & Beverage, Homecare, and Chemicals. With more than a 110-year history of innovation, Bonals Technologies provides sustainable and comprehensive solutions for manufacturing and packing powders, granulates, pellets, and tablets. Bonals Technologies operates in more than 50 countries world-wide with more than 50 employees.



International Sales

90%

Turnover in R&D

10%

Installed Base

5,000+

Country Reach

50+

When acquiring a complete bouillon line solutions from Bonals Technologies and its partners, you gain access to an extensive range of after-sales services. From a single spare part to complete service packages, tailored to your specific needs, Bonals Technologies and its partners can assist you in achieving maximum output and minimum downtime.

For more information, please contact us



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