

# COSMETIC & HYGIENE PROCESS

GLOBAL TURNKEY SOLUTIONS

**Health & Care**

Makeup • Skin Care • Hair Care • Dental Care • Lotions and Creams • Perfume • Gels and soap





**Boccard, global solutions**

Industrial integrator and imajor player in the design and construction of equipment and process lines for 100 years, Boccard has become a preferred partner for world leaders in the cosmetics and hygiene industries. From modular process skids to full scale plants, our team integrate turnkey solutions utilizing our worldwide network.

Boccard offers adapted and innovative process solutions for your production facilities for cosmetics and personal hygiene, dental and hair care products. Our Health & Care Excellence Center will design your projects with strict adherence to safety and hygiene. Our multidisciplinary teams ensure that the manufacturing processes are of the highest quality and in compliance with Good Manufacturing Practices as well as the User Requirement Specifications of our clients (cGMP and URS). We guarantee performance, productivity, and optimum maintenance requirements of all installations.

Product viability, guaranteed time-to-market, efficiency, and flexibility... Our principles ensure the best possible service and project experience.

**Design to Build & Maintain**  
for shared satisfaction

OUR  
MISSION:  
TO DESIGN  
AND BUILD  
TURNKEY  
PROCESS  
SOLUTIONS

- Makeup
- Hair  
Care
- Skin  
Care
- Personal  
Hygiene
- Perfumes and  
Fragrances
- Home  
Care



# DESIGN BUILD & MAINTAIN



## Global, high-performance solutions on all continents

For industrial pharmaceutical applications, we offer a partnership that provides the full expertise of process solutions. Boccard Health & Care is able to manage the full scale of your projects.

### We Design, Manufacture, Qualify, Install and Maintain your facilities

Successful project completion requires expert teams in process engineering, including engineers, automation experts, qualification specialists, technicians, boilermakers and welders to fully control the execution of the process and quality of the installation.

Boccard is your partner for all your projects :

- ✓ **MIXING TANKS & VESSELS**
- ✓ **MODULAR SKIDS**
- ✓ **UPGRADE TO GMP STANDARDS**
- ✓ **REVAMPINGS AND EXTENSION OF INSTALLATIONS**
- ✓ **FACTORY GREENFIELDS**

### Project Management

As an industrial integrator, we help you manage your projects more efficiently. As a partner, and thanks to our expertise in process intelligence and in project management, we deliver efficient turnkey process solutions. A single project manager drives your project from the conceptual phase through installation and commissioning. Technical expertise allows for the establishment of a realistic plan of action in accordance with your budget constraints and schedule.

« Safety first, On time, On spec, On budget »

Through the rigorous application of internationally-established best practices policies, Boccard guarantees responsive project management, in line with our PQP charter and manual : « Prevention, Quality, Productivity ».



### International scope

Thanks to our design offices and our 60 business units located throughout the world, we can help our clients wherever they are. Projects are designed with the support of the Excellence Center, then built and qualified by our teams who have expertise in most international codes and reference guides: ASME/BPE, DESP, GMP, FDA.





# ONE COMPANY ALL PROCESSES



**AUTOMATED TRANSFER / STORAGE**

**AGITATION / DISPERSION AND  
INCORPORATION OF POWDERS / EMULSIONS**

**IN LINE HOMOGENIZATION / FINAL  
PREPARATION / TRANSFER TO FILLING AND  
PACKAGING LINES**

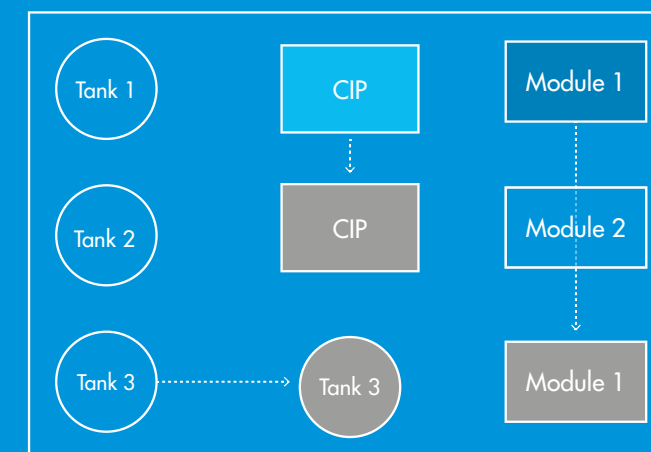
**CLEANING AND STERILIZATION IN PLACE**

## From independent modular skids to complete production plants

Based on our experience and the numerous cosmetic products we have dealt with, we offer modular skids, which are customized and adapted to your processes.

Modularisation consists in assembling prefabricated and customized modules according to the specific needs and constraints of your projects. These modules are adaptable to any production site. This standardized solution is not fixed in time, and evolves with your installations. Indeed, it is possible to add modules to existing installations and upgrade them, following the evolution of standards.

Modularisation allows a better understanding of your installation, thus optimizing batch production times and reducing product losses. It also enables more performant CIP cycles and a more efficient use of your utilities. Thanks to predefined modules, this solution also shortens the detailed study cycles and, consequently, the total project schedule.



- ✓ **FLEXIBILITY AND SCALABILITY**
- ✓ **PERFORMANCE GAINS**
- ✓ **REPEATABILITY OF RECIPES**
- ✓ **COST REDUCTION**



To solve your cleaning issues, our process engineers design and integrate efficient solutions in our equipment, as well as mobile or fixed CIP stations. Our technicians respect the regulatory and environmental constraints to optimize your consumption of water, energy and reduce waste.



To facilitate your transfer operations, Boccard has innovated in the field of transfer panels with BocLock, a smart, fast and secure connection, which has won a trophy at SIPEC 2013. Boccard has also innovated in pigging, with an intelligent scraping tool : Optilines +



# PROCESS VESSELS & AGITATION

## A tool for design and optimization of your processes

Thanks to our software **CFD** ("Computational Fluid Dynamics"), our experts simulate in real volume the agitation of a product in a tank.

This software simulates agitation design assumptions from the calculations performed and their interpretation, and our agitation experts can supply a visualization of results upon request.

## Your customized agitators

Boccard meets your stirring needs by designing and building your different agitators. Fluid agitation and mixing in tanks, are major steps in your processes, and are fundamental operations for the quality and integrity of the finished product. Galenic forms and highly variable viscosities (sticky, greasy or inflammable), non-Newtonian products with atypical rheological behavior, require a real know-how, which is held by Boccard.

Whether the product is blended, dispersed, emulsified, incorporated, scraped, homogenized or fermented, the proven performance of our agitators and homogenizers provide high quality products while optimizing production times.

## Specialist in process vessels and storage tanks

Our boilermaking factory (Boccard Process Vessels) and construction workshops around the world design and manufacture stainless steel process vessels. Over the last twenty years, Boccard has developed a service of expertise in agitation and mixing. Our tanks are resistant to pressure and vacuum, are sterilizable in place and can be equipped with double envelopes for heat exchange. Welding experts in stainless steel pressure vessels produce tailor-made equipment, from the 50 L pilot format to the industrial format of 30m<sup>3</sup>, and up to 15,000m<sup>3</sup> for the storage tanks.



**Anchor stirrer** for optimal heat transfer in viscous products



**Three-blade propeller stirrer** for multiple mixing applications or homogenization requiring large pumping



**Rotor / Stator** for the homogenization of the bottom of the tank to obtain a large shear necessary for the dispersion of powders or the realization of emulsions



**Dispersion turbine**, also known as defloculating turbine, creates a large shear for optimal dispersion of large quantities of powder

In cosmetic processes, contra-rotating devices are often used: it allows to combine the pumping efficiency of the propellers with the optimal wall thermal transfer due to the anchor





# ONE COMPANY ALL SKILLS

PROCESS  
ENGINEERING

AUTOMATION/  
ELECTRICITY

VESSEL  
FABRICATION/  
MIXING

WORKSHOP  
CONSTRUCTION

QUALIFICATION



## Process Control

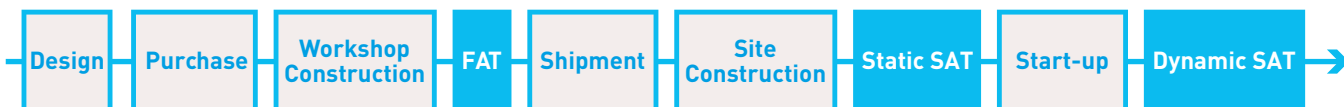
Simply and efficiently piloting your installations is essential: our automation engineers design customized and open automated control systems that communicate with your IT systems. They use the most reliable solutions on the market and work closely with your team to design ergonomic systems fully compliant with CFR21 (part 11), GAMP V and ANSI/ISA-88.



## Integrated Qualification

Whatever your installation project involves (production of complete workshops, tanks, skids, thawing vessels...), a qualification team will be assigned to your project. Capitalizing on our experience and respecting current GMP standards the team qualifies your equipment.

Experts in the field, the team will draw up the test protocols (FAT and SAT tests, DQ, IQ and OQ qualifications), manage any non-compliance. This ensures meeting deadlines and process reliability are optimised.



# INNOVATION & DIGITAL

Boccard develops innovative tools for optimizing the production and the sustainability of the installations, which offer numerous advantages: improvement of the cleaning parameters, reduction of the material waste and the energy consumption, as well as the guarantee of a clear follow-up of the operation of your facilities.

## BOCPREDICT

Predictive  
maintenance solution

A solution which allows to predict and prevent failures with reactive data

## TRACKADVANCE

Management and  
traceability software

Sharp control of plant operations, for more durable installations. Detailed real time data management (yield, occupancy rate).

## BOCLOCK

Safe and secure  
connection  
integrating RFID

A simple, hygienic and secure connection.

## OPTILINES

Intelligent pigging for  
optimized fluid transfer

System that improves the efficiency of your installations, facilitates cleaning, reduces material losses and waste.



## OUR VR AND AR SERVICES

**Virtual Reality (VR)** allows you to virtually visit your installation, verify its functionality and identify beforehand constraints related to maintenance and ergonomics. 100% of our models are reviewed in collaborative VR. **Augmented Reality (AR)** allows you to project your models in an existing environment and to check the compatibility of your installation in its environment. The AR is an added value during FAT / SAT tests to identify the potential differences between model and final installation.



# BOCCARD HEALTH & CARE



## CONTACT US

### Boccard Life Solutions

Health & Care

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We design, manufacture, assemble and install turnkey processing solutions for our customers worldwide who transform raw materials into products for people's direct consumption.

That is why our centers of excellence (Food&Beverage, Health&Care and Brewery) are committed to achieving the highest levels of quality and safety in over 100 countries, while ensuring optimal productivity to serve demanding markets.

Our experts in Process Intelligence and Project Management work on a partnership basis with companies of all sizes, including major global players, to build new facilities or upgrade existing systems to meet and surpass key performance indicators: product excellence and consistency, efficient time-to-market, responsiveness and flexibility.

In everything we do, our goal is to provide you with the best process experience, now and in the future.