

3D PROCESS

Design of a skid for filling and packaging an oral vaccine

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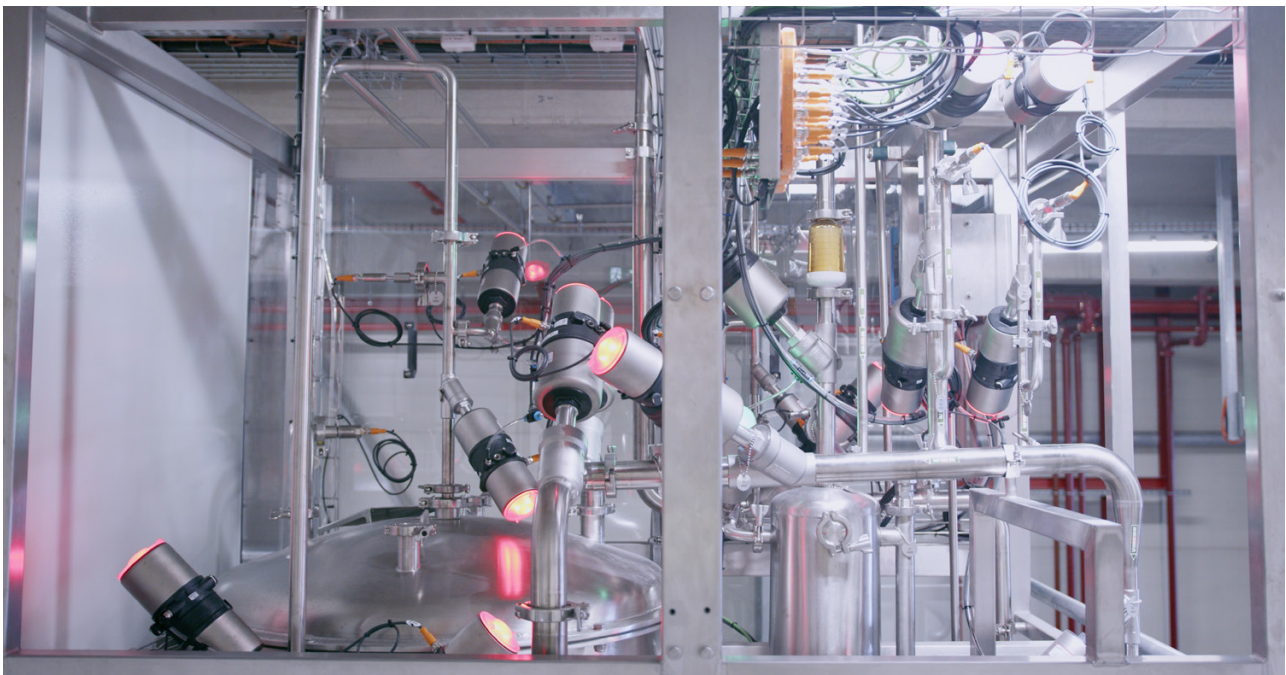
bürkert
FLUID CONTROL SYSTEMS

3D Process and Bürkert France collaborated to design a skid for Recipharm for filling and packaging an oral vaccine to combat a serious infectious disease that can affect children.

COLLABORATION WITH 3D PROCESS

3D Process, a designer and manufacturer of process solutions since 2013 based in Isère, specialises in the design and manufacture of process skids to meet a variety of industrial needs, including washing, water treatment, formulation, filtration, steam, and condensates. Their solutions are tailored to the various requirements of the pharmaceutical, cosmetic, and food industries.

To meet the needs of Recipharm, a company based in the Upper Rhine area of France specialising in the filling of ophthalmic single doses, 3D Process partnered with Bürkert France to develop aseptic packaging for an oral vaccine in single-use plastic containers, thereby opening the door to new high-value markets.



The contract manufacturer, also known as Kaysersberg Pharmaceuticals, owes its success to the mastery of the BFS (Blow-Fill-Seal) process, applied to ophthalmic single doses produced by the hundreds of millions every year. The plastic is blown and then moulded into a small container that is instantly filled and sealed. This innovative packaging method will facilitate the transportation and administration of the oral vaccine to patients, helping to combat a serious infectious disease that can affect children.

For this project, 3D Process, in collaboration with Bürkert France, designed a multifunctional, automated skid that enables the sterile filling of paediatric vaccines, as well as the transfer of the product. It also ensures that the entire installation can be decontaminated, cleaned in place (CIP), and, lastly, sterilised in place (SIP).



“Since we were already accustomed to collaborating with Bürkert France on numerous occasions before, we had confidence in their expertise and reliability. We worked together to design this skid to meet a very specific requirement, enabling the sequential operations of filling, decontamination, cleaning, and sterilisation. We modelled over 90% of the piping, and initiated a detailed study to address the functional complexity and uniqueness of this system.

We felt listened to and supported, even when it came to difficult matters such as the integration of new technologies, specific supplies, etc., which was so important in allowing us to achieve the desired standard for this comprehensive solution.”

Thierry Jakymiw, Technical Director of 3D Process

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