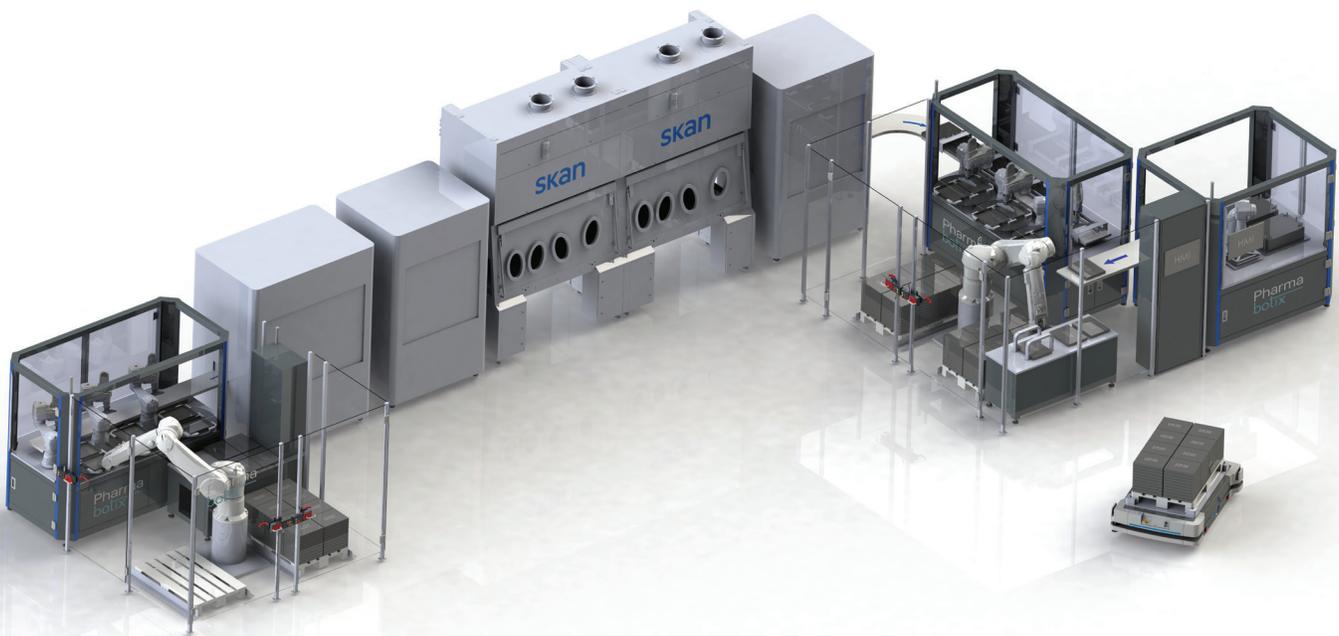


# PHARMABOTIX AG INNOVATING PHARMACEUTICAL AUTOMATION SYSTEMS WITH 3DEXPERIENCE WORKS SOLUTIONS

Case Study



Pharmabotix leveraged the design, collaboration, communication, and data management solutions from the **3DEXPERIENCE** Works portfolio to quickly develop its VialPro product family, which was specifically designed for liquid or solid vial-filling lines, providing a robust, end-to-end, automation solution to challenges surrounding the handling of primary containers.

### Challenge:

Quickly develop innovative, automated pharmaceutical filling and packaging systems to secure a market position as a startup company in the pharmaceutical industry.

### Solution:

Implement SOLIDWORKS for Entrepreneurs design software and collaboration, communication, and data management solutions from the 3DEXPERIENCE Works portfolio—including Collaborative Designer for SOLIDWORKS, Collaborative Industry Innovator, and Collaborative Business Innovator—leveraging the cloud-based 3DEXPERIENCE platform.

### Results:

- Realized design time savings of 20 to 30 percent
- Satisfied regulatory requirements for secure, traceable data and document control
- Increased customer collaboration
- Launched innovative VialPro vial-filling system

Pharmabotix AG was founded in Switzerland in 2021 with the goal of providing innovative, advanced automation solutions to the pharmaceutical industry. Staffed by professionals with more than 20 years of industry experience in automation, robotics, and mechanical engineering, Pharmabotix's years of experience and the combined knowledge and expertise of its employees have enabled the young company to set new standards in the fields of engineering, software, and consulting, while offering innovative automation solutions to the pharmaceutical industry.

Pharmaceutical companies need to leverage automation and robotics technology to streamline production, and Pharmabotix was established to meet this growing demand. The startup aims to become a leading technology partner in the fields of robotics and automation for the pharmaceutical industry, so pharmaceutical companies can bring products to market more quickly and safely, thereby contributing to the well-being and health of society.

When Co-founder and CEO Fabian Stutz established Pharmabotix in 2021, he realized that choosing the right design and engineering tools was a critically important decision for ensuring the company's success. Stutz says he made the right choice in selecting SOLIDWORKS® for Entrepreneurs design software and collaboration, communication, and data management solutions from the 3DEXPERIENCE® Works portfolio—including Collaborative Designer for SOLIDWORKS, Collaborative Industry Innovator, and Collaborative Business Innovator—because the solutions accelerate development

and help the company satisfy regulatory requirements in the pharmaceutical industry for secure, traceable data and document control. The innovation portfolio, purpose-built for the mainstream market, leverages the cloud-based 3DEXPERIENCE platform to connect a business' ecosystem in a single, unified, collaborative environment.

"The pharmaceutical industry is subject to a strict obligation to provide evidence of revision and document control on the design of all production facilities used to make and package prescription and over-the-counter drugs," Stutz explains. "It was therefore essential for us to create a process that combines design and engineering with secure data management and the required documentation.

"Traditional PDM [product data management] systems have their limits," Stutz points out. "But with the 3DEXPERIENCE platform, we now have a central, scalable portal in the cloud, where all parts and assemblies, including data sheets, are stored securely and accessible to all project participants at any time and from any device. And the security of our data is assured by two-factor authentication and data encryption."



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— Fabian Stutz, Co-founder and CEO

### SAVING TIME USING CERTIFIED STANDARD COMPONENTS

Pharmabotix's initial product development effort involved the VialPro product family, which was specifically designed for liquid or solid vial-filling lines, providing a robust, end-to-end, automation solution to challenges surrounding the handling of primary containers. "We used the 3DEXPERIENCE platform and its applications for the entire development process, as well as for assembling and commissioning new products," Stutz notes.

"The rapid discovery and reuse of standardized and already certified components [during the development of the VialPro line] will significantly accelerate future product development," Stutz continues. "I expect time savings of 20 to 30 percent here. The time saved can then contribute directly to the brainstorming and development of our products and thus increase our innovative strength."

## SATISFYING REGULATORY REQUIREMENTS FOR DOCUMENT CONTROL

Using SOLIDWORKS in conjunction with product development solutions from the **3DEXPERIENCE** Works portfolio, Pharmabotix easily and transparently satisfies regulatory requirements in the pharmaceutical industry for secure, traceable data and document control. “The use of faulty, outdated, or unreleased models and data in development and downstream processes is a risk for any company, especially in the pharmaceutical industry,” Stutz stresses.

“The version of the component or assembly to be installed in each system must be verified,” Stutz adds. “This is why we are very pleased to have implemented data management solutions from the **3DEXPERIENCE** Works portfolio. The **3DEXPERIENCE** platform is an absolutely secure system that gives us full control over our development data and enables full traceability of the documentation.”

## IMPROVING PRODUCTS VIA BETTER WORKFLOWS, COLLABORATION

Pharmabotix also values the **3DEXPERIENCE** platform because it formalizes product development workflows and increases collaboration and communication among the development team and with customers, resulting in better products. “The predefined workflows allow tasks to be assigned, while project progress can be viewed at any time via the customizable dashboards,” Stutz explains.

“Once the development team has completed a part or assembly, the supervisor is automatically informed and can review and approve the work,” Stutz says. “If changes are necessary, the model with the corresponding information goes back to development team. The automatic versioning of the 3D models on the **3DEXPERIENCE** platform also supports the team throughout the entire value creation process. This promotes interdisciplinary cooperation, accelerates processes and therefore boosts productivity, as all project participants are informed about all processes clearly and in real time.

“The **3DEXPERIENCE** platform has also opened up completely new possibilities for collaboration and communication with our customers,” Stutz notes. “Developing products in close collaboration with our customers and reacting with agility to customer wishes and requirements will help the design and

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the functionality of our systems must stand out from the competition. With the **3DEXPERIENCE** platform, we have a development environment that scales with business growth at a predictable cost. The cloud-based platform does not require any additional IT investment or costs for backups, updates, or other administrative tasks, because they are done automatically on the platform.”



In addition to enabling Pharmabotix to satisfy regulatory requirements for data and document control, the transparent, automated data management solution on the **3DEXPERIENCE** platform helped the company formalize its development workflows, resulting in increased collaboration, improved communication, and the development of better products.

## Our **3DEXPERIENCE**® platform powers our brand applications, serving 11 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the **3DEXPERIENCE** Company, is a catalyst for human progress. We provide business and people with collaborative virtual environments to imagine sustainable innovations. By creating ‘virtual experience twins’ of the real world with our **3DEXPERIENCE** platform and applications, our customers push the boundaries of innovation, learning and production.

Dassault Systèmes’ 20,000 employees are bringing value to more than 270,000 customers of all sizes, in all industries, in more than 140 countries. For more information, visit [www.3ds.com](http://www.3ds.com).

