



Modular facilities including process equipment, clean utilities and automation



Predictability,
Speed,
Quality



Portable,
Scalable,
Flexible



Modular Facilities

Selected Project References



Galderma

Sweden, Uppsala

New facility for manufacturing of products in aesthetic treatment.

Center of Excellence for Injectable Aesthetic products - the largest Life Science facility ever built in Europe using modular offsite manufacturing

Scope

KeyPlants is responsible for the complete project including detailed design, ground works and construction on-site, offsite manufacturing, installation of all equipment, as well as qualification to ensure all process equipment works as planned.

“- Modular build enables a better speed to market and ensures a controlled and predictable project schedule.

- Modular gives us flexibility towards future market dynamics. We can add modular parts at a later stage.”

Kim Sandell, Head of Operations at Galderma, Uppsala



Delivery

Construction for the new facility started in the autumn of 2022. The new building has a floor area of around 13 000 m² and is located in direct connection to Galderma's current Uppsala plant.

By June 2024 the last of the 94 modules has been positioned and connected to other modules and the stick-built part of the project—just 2.5 months since the first module arrived on site. Installation of the process equipment and critical utilities is ongoing.



Scan this code to watch a video about the development of this project



MSD (Merck & Co.)

Switzerland

Modular expansion of a biotech high containment bulk facility.

The first facility designed and built using the innovative indoor modules system.

Scope

Basic design, fabrication, integration of process equipment, and turnkey supply of a modular facility for weighing and dispensing of high containment products.

Delivery

Turnkey delivery of the facility through offsite construction within 6 months, starting with Basic design in December 2012 and completed installation and qualification at the clients site in June 2013.



Stragen Pharma

Switzerland

Modular high containment oral solid dosage facility.

Scope

Design, offsite fabrication, on-site installation and qualification of a modular oral solid dosage facility for production of high containment products (hormone in tablets).

Delivery

Facility consists of 20 outdoor modules with the total process and mechanical installation area of 1,200 m², docked to a conventionally built warehouse. Turnkey delivery of a qualified oral solid dosage facility within 15 months (2011 - 2013).



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India

Modular process plant for production of glass fiber.

Scope

Customized designed indoor modular facility, footprint 1,070 m².
Turnkey delivery of a off-site manufactured modular glass fiber forming area and installation between two conventionally constructed structures.

Delivery

The modular facility was designed in Sweden, constructed in a workshop in China and then moved and installed on a brownfield site in India.
The project was executed in 2016 - 2017.



MSD (Merck & Co.)

The Netherlands

Modular Ammonia Plant

Scope

Turnkey delivery, including design, offsite construction, on-site installation and integration of a modular process unit for production of ammonia for expansion of a brownfield site.

Delivery

Turnkey delivery of the ammonia plant on a congested site within 6 months in 2015.



Confidential Big Pharma

Austria

Modular pharmaceutical packaging facility

Modular OEB5 containment facility designed & delivered in 12 months!

Scope

Design, offsite fabrication and turnkey supply of a outdoor modular pharmaceutical facility with cleanroom for the packaging line.

Delivery

Turnkey delivery of the facility through offsite construction with a very tight timeline: just 12 months from a blank sheet of paper to an operational 600-sqm modular facility on site. KeyPlants' modular manufacturing made it possible to meet the specifications and deliver on time.



Confidential, Global CDMO

Switzerland

A new modular thawing room facility was delivered to support increased capacity in vaccine production.

Scope

The facility consisted of four outdoor modules, including a controlled process room for the thawing of substances used in vaccine manufacturing, and a technical room. To support the client's environmental objectives, all modules were equipped with green roofs featuring vegetation, contributing to improved insulation, reduced rainwater runoff, and enhanced sustainability.

Delivery

The scope included the design, engineering, and fabrication of the modules in Sweden, followed by transport, on-site installation, site acceptance testing, and commissioning. The modules were delivered to site in February 2024, with mechanical completion and handover finalized in May 2024.



The Winner the Lean Construction Institute (LCI)
Engineering Design Award 2024!

Modular expansion of the capacity of pre-filled syringes production
on an existing site in the USA.

Scope

KeyPlants provided the client with internal modules (2,800 m²)
to support vaccine filling operation. The scope included an aseptic
filling line suite, buffer preparation, formulation, CIP, VHP, material
staging, and inspection.



Delivery

Facility consists of 68 modules with process and mechanical
installation area, supporting vaccine filling operation. Construction
started in January 2022 and the facility was delivered by KeyPlants
in just 13 months from the start of Detail Design.

*“- This is one of the great advantages of offsite fabrication. It removes significant
risks, reducing some timelines by up to 50%. It also removes other risks such as
cost-of-capital risk, production risk and revenue risk.”*

Johan Hallberg, KeyPlants' Head of Project Management

*“The LCI Engineering Design Award celebrates project teams—architects,
engineers, designers, clients, and constructors—who excel in improving
the design and construction process while creating value in the built
environment. Winners are chosen based on their implementation of lean
principles (50%) and the generation of value/fit for use (50%).”*



Renasys

Norway

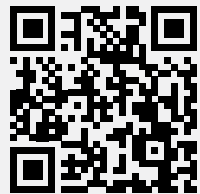
A new modular full-scale water purification plant in Førde, Norway

Sustainability through Modular Design

Scope

Basic design, offsite fabrication and turnkey supply of Renasys' facility for chemical-free technology treats wastewater and removes particles as small as 5 microns; KeyPlants' modular design enable turnkey connection to existing wastewater treatment facilities, immediately increasing treatment capacity.

Scan this code to watch the video to see how it all came together!



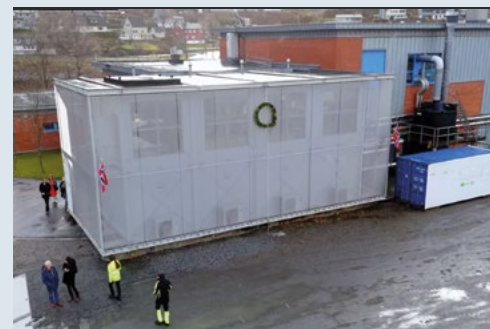
Delivery

In September 2024, 8 prefabricated modules designed and manufactured by KeyPlants were successfully delivered and installed. These modules now support Renasys' advanced, chemical-free wastewater treatment technology.

“Thanks to our modular approach, the facility was seamlessly connected to existing infrastructure—immediately increasing treatment capacity and minimizing environmental impact.”

This project is a milestone in advancing sustainable water treatment solutions and underscores the power of modular technology to deliver efficient, scalable, and sustainable infrastructure where it matters most.”

Graham Kirn, KeyPlants' Sustainability Controller



Batavia Biomanufacturing

The Netherlands, Leiden

New state-of-the-art biologics manufacturing facility in indoor modules.

Facility is designed & prefabricated in Sweden, shipped to Leiden, lifted 20 meters onto a platform, and installed on the third floor of the new constructed facility — all within just 10 months.

Scope

KeyPlants executed the design prefabrication in Sweden, transported the facility to the site in Leiden and completed the installation and commissioning on site. The project required significant technical innovation, particularly in the design of the module floors. To ensure seamless integration with the existing building floor, KeyPlants developed an unusually thin floor system of just 4 centimeters, ensuring that no ramp would be required to roll in material and mobile equipment from the corridors into the facility.



Delivery

KeyPlants' sister company VILS was contracted to provide a turnkey technical fit-out of the production suites, advanced labs, and cleanrooms within the new building. To meet tight deadlines while ensuring quality, a hybrid delivery model was devised for project implementation. KeyPlants delivered indoor cleanroom modules, prefabricated in Sweden, shipped to Leiden, lifted and installed on the third floor of the locally constructed building and commissioned on site. The project was completed and handed over to the client in January 2025.



Scan this code
to watch how this
groundbreaking project
takes shape!



Institut Pasteur de Dakar

Senegal

Modular aseptic filling facility for COVID19 vaccine.

First-Of-Its-Kind Vaccine Manufacturing Facility to Africa.

Scope

Turnkey delivery of a modular aseptic filling facility (indoor modules) to Institut Pasteur de Dakar (IPD) in Senegal, Africa. The first target will be COVID-19 vaccine production, with the flexibility to adapt to future needs.

Delivery

Design, procurement, offsite fabrication and commissioning of the complete facility. This fully customized facility has been delivered during 2021 - 2022 in less than a year after the start of the design work.



Confidential Big Pharma

Europe

Modular expansion of the capacity of a Vaccine Filling Facility. Complex design meeting the requirements according to BSL2, Air tightness VDI class 1 and FM global requirements on safety systems.

Scope

Turnkey delivery of two story BSL2 class modular facility for vaccine formulation and filling. Design, procurement and offsite fabrication of the complete production building with all process equipment and automation. Indoor and outdoor modules.

Delivery

The modular facility has an area of 1,800 m². Site installation and commissioning on client existing site including integration to existing production facility. Delivery time from Basic Design to finalized offsite fabrication of the building – 13 months. Site Installation 3 months.



Confidential Big Pharma

USA

Modular extension of an existing vaccine bulk manufacturing facility.

Scope

Turnkey delivery of a modular 4-story extension (1,500 m² = 16,150 SF) to an existing building with integrated cold rooms and buffer preparation process areas.

Façade and roof installed on site to match the adjacent building.

Delivery

13 months including Basic Design. Design, procurement, offsite fabrication and commissioning were performed in Sweden during the COVID19 pandemic restrictions in 2020 - 2021, all review meetings with the client were held via digital technology.



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Latin America

Two modular facilities for bulk manufacturing and aseptic filling of mAb and therapeutic proteins, based on KeyPlants design platform Modular Bio Solutions (MBS™).

Scope

Turnkey delivery of two integrated process buildings in outdoor modules. Bacterial fermentation with UF and chromatography purification. Liquid and lyo vials, powder-filling in vials and two-chamber syringes.

Delivery

Complete modular buildings with a total floor area of 6,300 m² including all process equipment and clean utilities. Construction started in 2018. Delivered to a greenfield site in 2019 - 2021.



Your Solution-Orientated Partner

KeyPlants is the leading provider of engineering technologies, standardized pods and customized process-integrated modular prefabricated facility solutions, with experience from having supplied over 4,500 high-specification modules worldwide.

We have successfully executed complex projects on a global scale. Additionally, we offer our customers an unmatched understanding of pharmaceutical process engineering, biomanufacturing, aseptic filling, containment, and manufacturing of APIs and oral solids. This combination makes KeyPlants your ideal partner.

We deliver high-quality modular offsite construction projects to accelerate your project development with speed, flexibility and predictability.

We serve a global customer base ranging from emerging biotech to big pharma.



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