



KeyPlants Introduction



Solutions that make a difference

Our Mission and Vision

KeyPlants provides fast track, high quality facility design and construction, as well as turnkey modular solutions for the life science and advanced technology industries.

We deliver modular off-site manufactured facilities globally, and professional services and traditional installation projects in the Nordic countries.



Our History

1976

First module delivered from Emtunga workshop to the offshore industry.



1990-2010

KeyPlants' founders pioneer modular facility concepts in the pharmaceutical industry.



2013

First Big Pharma order; indoor modular facility delivered to Switzerland in just 6 months.



2020-2021

New offices established in Malmö and Gothenburg.



2021

Acquisition of partner workshop in Emtunga, now part of KeyPlants.



2022

US organization established



2025

New production site established in Götene, doubling modular prefabrication capacity



1986

First modular facility for the life sciences industry delivered from Emtunga workshop.



2010

KeyPlants founded

2013-2020

International expansion with projects delivered across Europe, the US, Asia, and other global markets.

2020-2022

KeyPlants Automation established; becomes Siemens' only Pharma Partner in the Nordic region (2022).

2021

KeyPlants becomes part of the Masco Group.



2022

Consulting launched as a new business area.

2024-2025

Awarded EcoVadis Gold rating for sustainability performance.



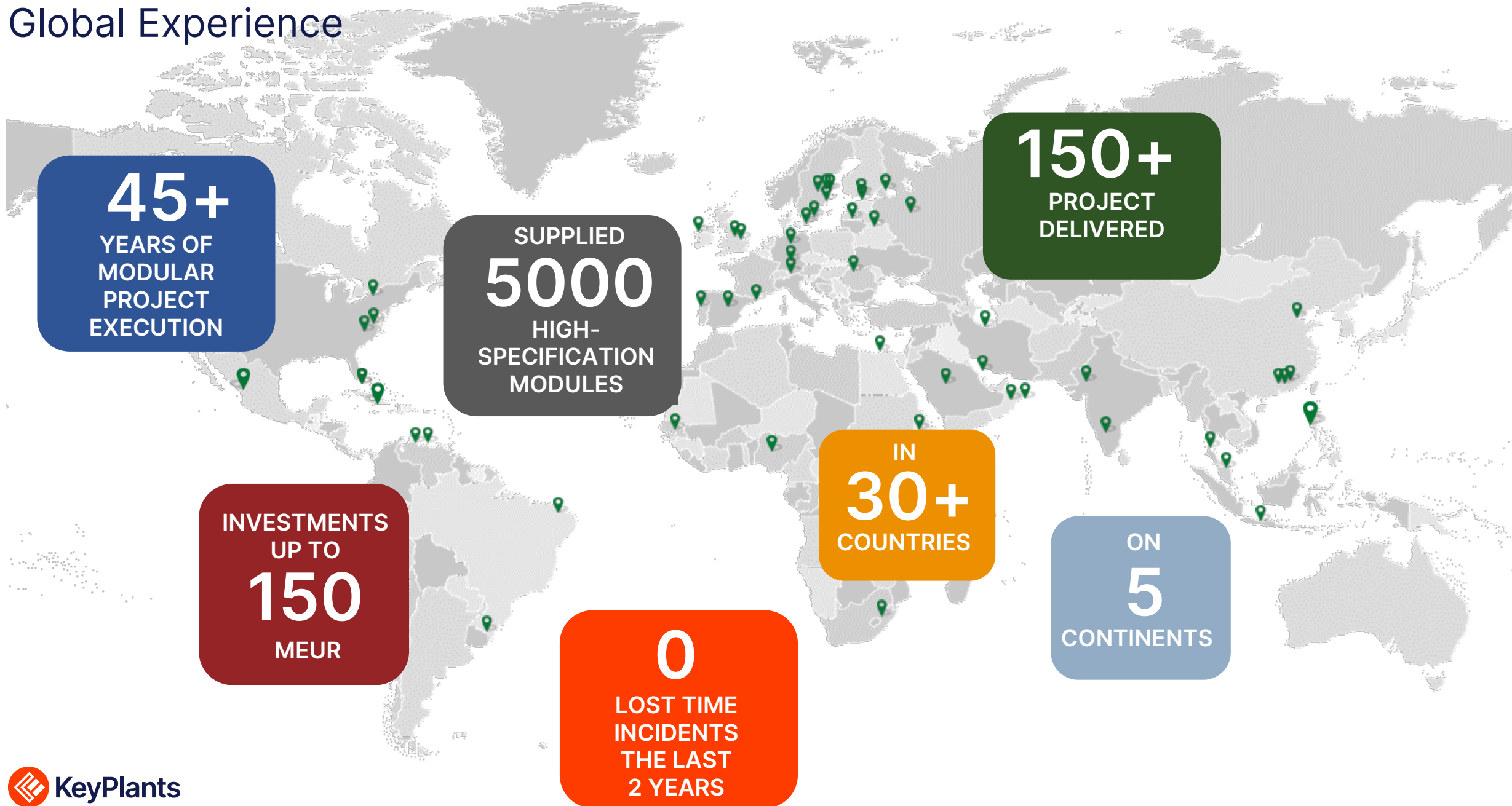
KeyPlants is Part of Masco Group

We are a **global group** connecting five continents.

-  **9**
Companies
-  **6000**
Active clients
-  **80**
Countries with 70+ Agents and service partners
-  **1000+**
Dedicated professionals



Global Experience



Experience and Trust

Based on the tradition of industrial innovation in **Sweden**, KeyPlants became pioneers bringing the modular facility concept to the life science industry. We have developed our ideas and solutions over the years, in close collaboration with leading Big Pharma companies. Today, we partner with several of **the top 10 Big Pharma** and many regional companies in the world.



KeyPlants: Company Sustainability



EcoVadis

- An ESG (environmental, social, & corporate governance) performance assessment platform
- KeyPlants: Third consecutive gold medal received April 2026: top 5% of companies



United Nations Global Compact

- A voluntary initiative to implement universal sustainability principles and support the UN Sustainable Development Goals
- KeyPlants: UNGC supporter since 2024



SBTi (Science-Based Targets initiative)

- A platform supporting the creation and verification of environmental targets which align with the 1.5°C Paris agreement
- KeyPlants: Targets verified by SBTi in 2023



Annual Reporting

- KeyPlants sustainability report published annually since 2023
- 2025 report aligned with Voluntary Standard for Small & Medium Enterprises (VSME)

KeyPlants always put safety first

Highwire certified



The Highwire score is based on injury and illness data, our management system and our review of safety procedures.

95

of 100
Highwire Score

OSHA reporting



Our reporting is based on OSHA (Occupational Safety and Health Administration)

0,0

TRIR
Total Recordable Incident Rate 2025

ISO9001, ISO14001 & ISO45001 Certified Workshop



We follow our EHS system for safety procedures.

Workshop & Field Activities

	2023	2024	2025
# Lost Time Incident (LTI)	0	1	0
# First aid cases	4	3	3
Total Record-able Incident Rate (TRIR)	0	0,4	0

KeyPlants Simplifies Project Execution with Speed, Flexibility and Predictability

KeyPlants Capabilities

Process Engineering

Automation

Manufacturing and
Site Installation



**Global
End-to-end Project
Delivery**

Project Management

GMP Facility Design

Commissioning
and Qualification



**Full-Service Turn-Key
Projects**

In-house Design and Fabrication as well as subject matter expertise in biologics, aseptic filling, containment and manufacturing of APIs and oral solids.



Global Modular Off-Site Construction Leader

Pods

- Portable on demand clean rooms
- Standard Sizes



Internal Modules "Box-in-Box"

- Process integrated and self-contained
- Installed within a shell building



Modular Buildings

- Process integrated and self-contained
- Environmental closure



Advantages of Modular Offsite Construction



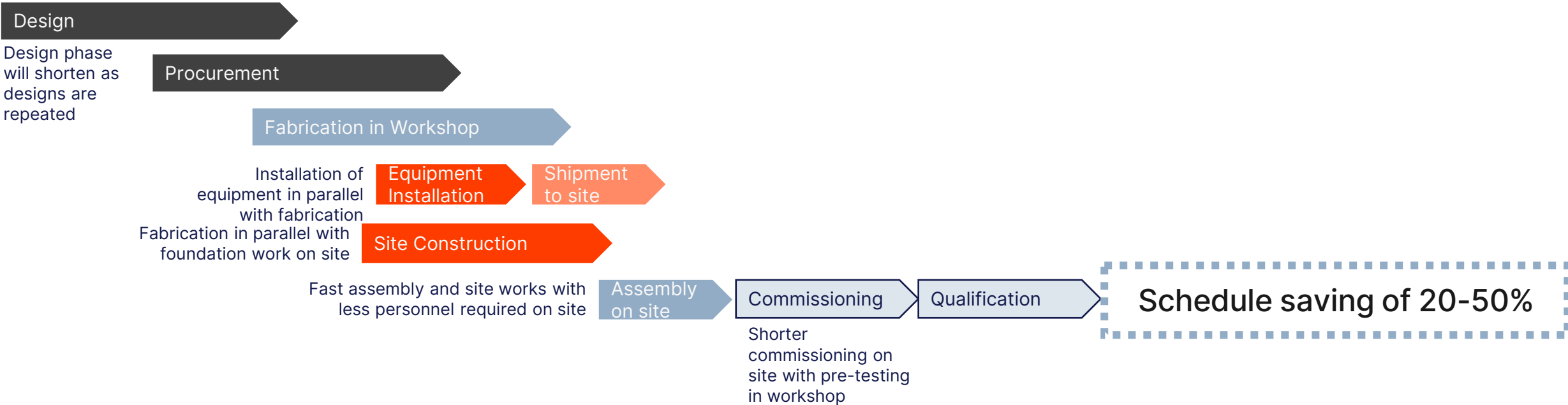
- # Shorter time to market
- # Manufacturing under controlled conditions
- # Increased predictability in cost, schedule and quality
- # Increased safety and sustainability
- # Less disturbance of site operations
- # The facility can easily be expanded and moved

Modular Offsite Construction - Shorter Time to Market

Time Schedule Conventional Stick Built Project

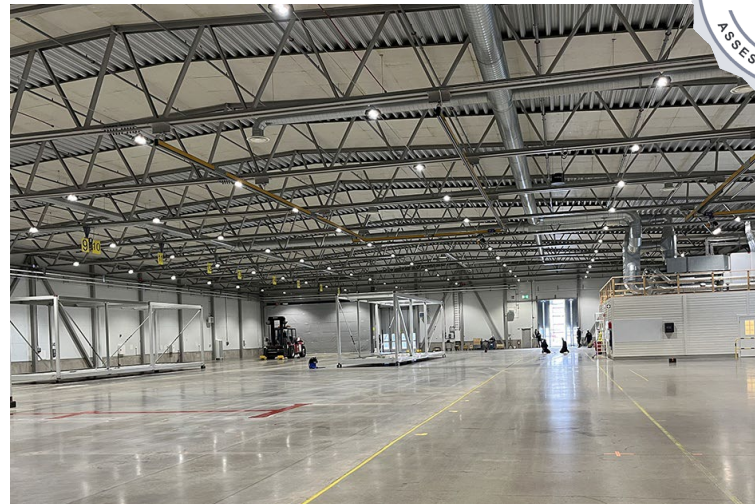


Time Schedule Offsite Construction Project



Fabrication Workshops

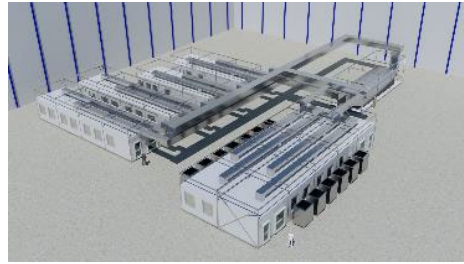
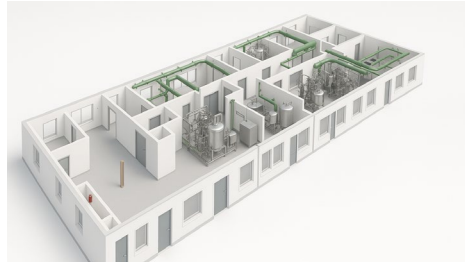
- Two workshops: Emtunga and Götene
~1 hour from Gothenburg
- Annual capacity: 20,000+ m² of complex processing facilities
- Turnkey prefabrication: process equipment installation, clean piping, HVAC, cleanrooms, and critical infrastructure
- Proven track record and strong safety culture:
 - Specialized facility for steel structure fabrication and offsite modular construction since 1976
 - Annual Highwire safety assessment since 2021
 - Certified to international standards
- 2027: Workshop Capabilities US East Coast



Two workshop sites: 70.000+ m² total area

Design and Execution Model for Modular Projects

From Business Case Definition to Operations



Concept Design

- Develop concept that addresses the client technical requirements, budget and schedule according to the client's business case

Basic Design

- Develop the scope for the selected concept
- Prepare and plan the project for execution

Detailed Design & Fabrication

- Complete the Detailed Design and procure materials
- Pre-fabricate modular facility in workshop
- Pre-install process equipment and utilities

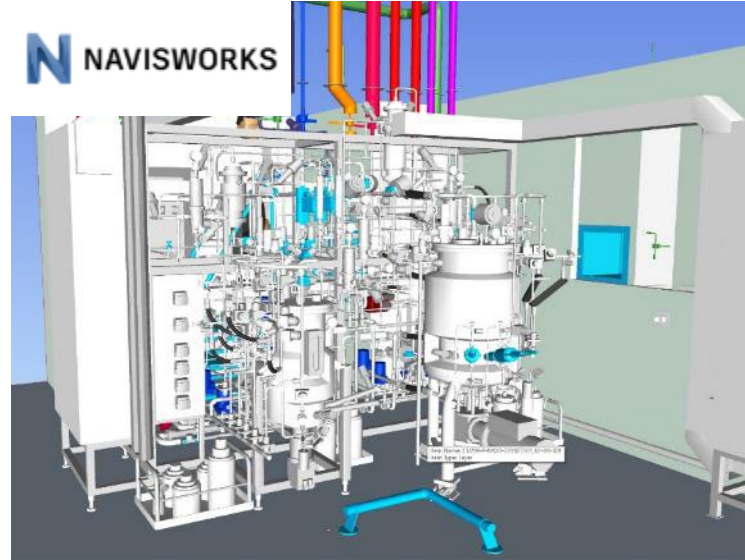
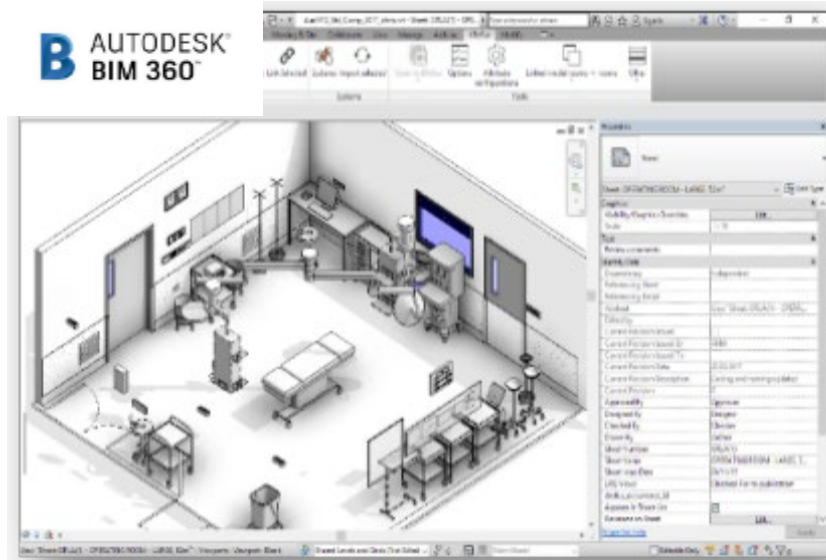
Delivery & Site Assembly

- Deliver the modular facility to the client's site
- Reassembly of the modular facility and site installations

Installation, C&Q

- Verify and record all agreed requirements
- Hand over to the client's operations organization

Design and Engineering



State of the art data-based design and design management tools for efficient design and communication with client and project partners:

- BIM Model with one source of data
- Navisworks as coordination and client review tool
- Design Integration of process equipment with vendors

Recent Reference Projects



Confidential, Global CMDO

Modular Turnkey Facility Expanding Peptide Manufacturing Capacity



Scope:

Modular facility designed and delivered by KeyPlants to expand peptide production capacity. The facility includes GMP production areas with highly complex process equipment, demonstrated by more than 5,000 meters of clean piping and cabling. The scope also included a new state-of-the-art automation system for both process and facility controls.

Delivery:

Design and engineering; modular offsite construction with installation of process equipment and piping; transport and on-site installation; site acceptance testing; and commissioning.

Drivers and Success Factors:

KeyPlants' modular approach minimized on-site work by delivering a fully equipped facility with critical equipment and utility systems preinstalled and pretested before arrival. Accelerated delivery enabled faster startup while ensuring GMP quality from day one.

Offsite construction reduced schedule risk, enhanced safety, and shortened time on the constrained site.

Confidential, Global CMDO, Switzerland

A new modular thawing room facility aimed to increase the capacity of vaccine production



Scope:

A modular building for thawing of drug substances used in vaccine manufacturing. This GMP facility was designed and built by KeyPlants as a stand-alone building with GMP production area as well as technical areas included.

Delivery:

Design, engineering, and fabrication of the modules in Sweden, followed by transport, on-site installation, site acceptance testing, and commissioning.

Drivers and Success Factors:

Time driven: the modules were delivered to site in February 2024, with mechanical completion and handover finalized in May 2024.

Compliance: 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.

Galderma, Sweden, Uppsala

The largest Life Science facility ever built in Europe using modular off-site manufacturing



Scope:

KeyPlants is responsible for the complete project, including design, ground works and construction on-site, installation of all equipment, as well as qualification.

The new facility comprises 13,000 sqm of floor area and is directly connected to Galderma's existing Uppsala plant.

Delivery:

Starting with Site Master Planning, KeyPlants has delivered design and build covering process equipment, automation, facility, supporting systems and buildings.

Installation of equipment, commissioning and qualification has also been part of KeyPlants delivery.

Drivers and Success Factors:

Time to market and the ability to phase the project were the main reasons for selecting offsite construction and KeyPlants.

Batavia Biosciences, Leiden, the Netherlands

Cleanroom modules are lifted 20 meters onto a platform and installed on the third floor of the stick-built building



Scope:

KeyPlants delivered a state-of-the-art biologics manufacturing facility in Leiden through off-site construction and installation of 27 fully equipped cleanroom modules. These were seamlessly lifted into place on the third floor of an existing stick-built building, creating 1,500 sqm of production space. KeyPlants engineered an unusually thin 4 cm floor system, eliminating the need for ramps and enabling smooth movement of materials and mobile equipment.

Delivery:

Design, Offsite Construction, Delivery, Installation and Commissioning.

Drivers and Success Factors:

KeyPlants' prefabricated approach enabled the project to meet an ambitious timeline that conventional construction methods could not match. KeyPlants were also able to reduce space and handling need on site during construction.

Detail design started in August 2023, and the modular facility left KeyPlants' workshop beginning of April 2024. In that period the pre-commissioning work was also finalized.

Packaging Facility Expansion, Big Pharma, Austria

Three-storey modular extension enabling high-containment pharmaceutical packaging



Scope:

Modular extension to an existing pharmaceutical production facility in Austria, designed for packaging operations. The facility comprises 600 sqm, including a 200 sqm OEB5 containment cleanroom, as well as cleanroom and technical areas for packaging equipment.

Delivery:

Design and engineering; offsite modular construction; transport and storage; and on-site installation. Delivered on an accelerated timeline, with parallel design, prefabrication, and site preparation, enabling completion from concept to commissioning within 12 months.

Drivers and Success Factors:

- Tight project timeline required a fast-track, predictable delivery model.
- Offsite construction enabled parallel activities, significantly reducing overall schedule.
- Seamless integration with an existing facility ensured alignment of structure and interfaces.

Confidential, Big Pharma, Sweden

Newly developed spray dryer, with integrated utility systems, automation, and supporting facility infrastructure



Scope:

Adapt existing production premises to a newly developed spray dryer production platform. Including significant element of built environment design development and supporting process system development (CIP, N2, PFOB, and wastewater). Built against OEB4.

Delivery:

From Conceptual, Basic, through Detailed Design and installation, to Commissioning and Qualification.

Drivers and Success Factors:

Success factors were KeyPlants' vast experience in process design, project management and the good cooperation with the customer's global engineering.

Expansion of Merck's pre-filled syringe production, USA

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



Scope:

Filling line suite, buffer preparation, formulation, CIP, VHP, material staging, and inspection.

This 2,800 sqm box-in-box modular facility supports vaccine filling operations and with the expansion, the project will support the production of 70 million pre-filled syringes annually.

Delivery:

Design, offsite manufacturing, transportation, site installation and commissioning by KeyPlants.

Drivers and Success Factors:

The rapid timeline, with its schedule certainty and predictable operational start-up were crucial elements both for Merck and the KeyPlants project team.

Confidential, Big Pharma, USA

Modular extension of an existing vaccine bulk manufacturing facility



Scope:

A 4-story modular building to expand vaccine manufacturing capacity, with integrated cold rooms and buffer preparation areas. Façade and roof were installed on-site to seamlessly match the existing building.

Delivery:

Design, procurement, off-site fabrication and commissioning were performed offsite in Sweden. The project was delivered within 13 months from start Basic Design.

Drivers and Success Factors:

Speed of project execution, reduced total project cost and optimal operability and capacity.

Confidential, Big Pharma, Europe

Site with limited space close to residential district: just 20 m away from the neighboring buildings



Scope:	Expansion of vaccine filling facility. Complex design meeting BSL2 requirements, air tightness VDI class 1 and FM global. The biggest challenge was the development and implementation of an advanced automated Vapor Hydrogen Peroxide (VHP) decontamination system.		
Delivery:	Design, procurement and off-site fabrication of the complete production building with process equipment and automation. Site installation and commissioning on site including integration to existing production facility.		
Drivers and Success Factors:	Safety:	Zero critical incidents	
	Cost control:	Very few change orders	
	Time driven:	Time to production was critical	
	Compliance:	Aseptic processing, BSL2, VDI class 1 air	
	tightness, FM global		

Confidential, Big Pharma, Sweden

Multi-product biomanufacturing facility extension for column packing



Scope:

Design and build of a new building adjacent to existing biologics production facility. Cleanrooms in Grade D with ATEX-classification.

Installation of process equipment and clean utilities with tie-ins to existing systems. Automation solutions for the new area as well as connecting the new facility and equipment to existing surveillance systems.

Delivery:

Conceptual-, Basic-, through Detailed Design and installation to Commissioning and Qualification.

Drivers and Success Factors:

KeyPlants expertise in process- and automation design, ability to deliver turnkey projects and the close collaboration with the customer were main success factors in this project.

COVID-19 Vaccine Facility, Senegal, Africa

First-Of-Its-Kind Vaccine Manufacturing Facility in Africa



Scope:

KeyPlants designed and delivered this modular aseptic formulation and filling facility to Institut Pasteur de Dakar, the first vaccine manufacturing facility ever built in sub-Saharan Africa outside of South Africa. The two-storey, 800 sqm box-in-box modular building houses manufacturing on the ground floor and mechanical systems, including clean utilities, on the upper level.

Delivery:

Design, procurement, off-site fabrication and commissioning of a complete facility.

Drivers and Success Factors:

Reduced time schedule, meeting high quality requirements, and ensuring easy maintenance and scalability were important for the customer. KeyPlants delivered this fully customized facility in less than a year after starting the design work.

Ferring, Germany and Indonesia

Modular Movable Facility



Scope:

This filling facility was designed and manufactured by KeyPlants in Sweden, shipped to Kiel (Germany) for tech transfer, production trials and process validation and finally shipped to Indonesia for validation batches, commercial production and launch. The newly formed production team from Indonesia travelled to Kiel for training, to take over and qualify the new modular units.

Delivery:

A complete manufacturing facility built in one location, further equipped, tested and qualified in another location and then moved again to a final site to begin production.

Drivers and Success Factors:

- Reduced risk through off-site design and prefabrication
- Shortened schedule by executing facility design and build in parallel with site search and preparations
- Knowledge transfer by leveraging the expertise of Ferring's staff at the existing manufacturing site

Confidential, Latin America

Greenfield drug substance manufacturing and aseptic filling facility



Scope:

A turnkey greenfield facility with two modular buildings for bulk manufacturing and aseptic filling, based on our Modular Bio Solutions (MBS™) and Modular Aseptic Solutions (MAS™) platforms. The equipment scope covered bacterial fermentation with ultrafiltration and chromatography purification, aseptic filling lines, lyophilization, powder filling in vials, and a two-chamber syringe line as well as clean utilities.

Delivery:

Complete modular buildings including process equipment, clean utilities and automation. All design stages as well as procurement, construction, installation, commissioning and qualification were delivered by KeyPlants. Groundworks and foundations were provided by the client.

Drivers and Success Factors:

Predictability, speed and quality were the main drivers for the customer.

Confidential, Sweden

Medical Device Facility



Scope:

Facility for coatings of medical devices (implantations). KeyPlants scope were installations on 6 different floors in this new building. More than 500 sqm C-class cleanrooms and more than 500 sqm technical areas.

Delivery:

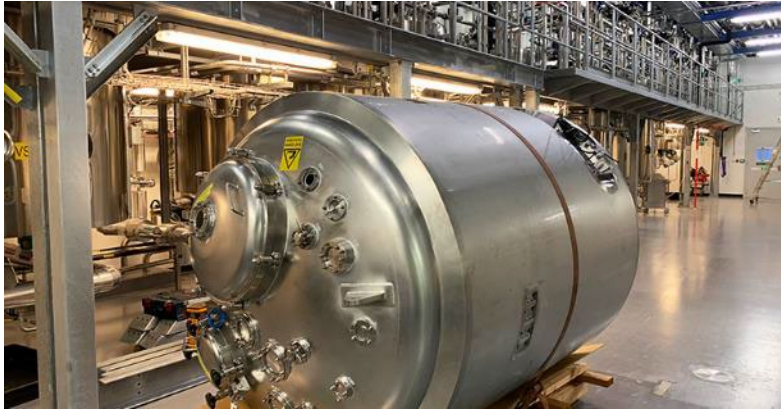
Turnkey delivery – from engineering to commissioning and qualification. Production space including support systems such as HVAC, compressed air, vacuum and medical gases. Equipment installation, automation and integration with building. Building monitoring system and environmental monitoring system.

Drivers and Success Factors:

- Cost- and time-efficiency tailored to the needs of a small company with limited resources
- Single-point responsibility provided by KeyPlants
- Optimized production flow designed by KeyPlants through the logical arrangement of process steps and equipment

Confidential, Big Pharma, Sweden

Biomanufacturing Facility



Scope:

Process simulation, design and project delivery including C&Q. Buffer hold, CIP, clean utility, change of process streams and upgrade of process automation system.

The installation by KeyPlants include more than 13,000 clean pipe welds.

Delivery:

Conceptual and basic design, followed by and project delivery including commissioning and qualification.

Drivers and Success Factors:

Major customer drivers: Predictability, quality and schedule

Project objective achieved: Near doubled the site production capacity

SaudiBio, part of Lifera, The Kingdom of Saudi Arabia

First-Of-Its-Kind Aseptic Filling Facility on the Arabian Peninsula



Scope:

KeyPlants delivered a turnkey modular aseptic fill-finish facility based on our Modular Aseptic Solutions (MAS™) platform. The scope included “Box-in-Box” integrated process buildings, a combi-filler for vials, syringes, and cartridges, pre-sterilized containers, and formulation capabilities using stainless steel tanks and disposables.

Delivery:

Turnkey delivery from concept design through to handover of a complete operational production facility including process equipment, utilities and automation.

Drivers and Success Factors:

Predictability, speed, quality, and flexibility were key priorities for the customer, and KeyPlants successfully delivered a turnkey qualified facility within 16 months including long lead items such as filling line.