



The specialist for industrial buildings.

**YPSOMED SELFCARE SOLUTIONS**

**INSIGHT**



**There is rapidly growing global demand for Ypsomed's products, which are designed for the self-treatment of diseases such as diabetes. To meet this demand now and in the future, the Swiss medtech company has built a production plant in Schwerin, the capacity of which can be doubled at the appropriate time. For IE Plast, this presented an opportunity to plan and build the ideal factory for Ypsomed on a greenfield site.**

Ypsomed established itself in the injection and infusion systems market over 30 years ago. Today, the company is one of the world's leading manufacturers in this product segment. In view of its sustained dynamic growth, Ypsomed has continuously expanded its production capacities in Switzerland in recent years. Once the potential at its Swiss sites had been exhausted, the company looked abroad for a suitable location for the manufacture of pens and insulin pumps. The decision was made in favor of Schwerin, the state capital of Mecklenburg-Western Pomerania in northern Germany. Schwerin offers excellent conditions for industrial production and has abundant reserves of building land. This provided the ideal conditions for Ypsomed's growth plans.

# GROWTH SCENARIOS PLANNED FROM THE OUTSET.

PLANNING AND  
CONSTRUCTION OF THE  
**IDEAL FACTORY** FOR  
**YPSOMED AG.**



*« We wanted to build a flexible factory that could change over the years. The required flexibility was the guiding principle for the overall and detailed planning of our new plant in Schwerin.»*

*Simon Michel,  
Ypsomed Gruppe*

# SUCCESS FACTORS

## 1

TO DOUBLE PRODUCTION CAPACITIES

### **ALL GROWTH OPTIONS AT A GLANCE.**

---

The new production plant was not only intended to meet current production requirements, but also to anticipate future demand. In the first phase, Ypsomed planned to operate 60 injection molding machines. In the second phase of expansion, 30 more machines were to be added. The idea of doubling production capacity at the same location in the foreseeable future was highly ambitious and a major planning challenge. Cleanroom capacities, material logistics, media supply, assembly and packaging lines, and storage capacities would have to grow accordingly.

Ypsomed decided to appoint IE Plast as the general contractor for the overall planning and execution of the project. The decisive factors were the industry knowledge of the IE planners, the IE planning approach "from the inside out," the cleanroom expertise, the success factor "everything from a single source," and the guarantees for quality, deadlines, function, and costs. The collaboration began with the joint development of a master plan. This was based entirely on the model of the flexibly expandable ideal factory designed by IE.

## 2

THE MODEL OF THE IDEAL FACTORY AS A BENCHMARK AND GUIDING PRINCIPLE

### **CONSISTENTLY FLEXIBLE INFRASTRUCTURE.**

---

The ideal factory sets the highest standards for process efficiency, cleanliness, production reliability, profitability, and expandability. A backbone runs through the entire facility like a corridor, connecting the associated production, processing, supply, and storage areas. The material, personnel, and media flows running through the backbone are arranged one above the other and strictly separated from each other. The backbone approach enables a high degree of automation and subsequent expansion of production during ongoing operations without having to adjust the zone concept. The IE planners do not assign the media supply to the building. Instead, they treat these systems as movable elements that can be adapted to any changes in the machine layout. The supply is provided from top to bottom and can be flexibly adapted to the configuration of the production equipment.

## 3

ALIGNING THE BUILDING CONCEPT WITH THE ZONE CONCEPT

### **MEANINGFUL DIMENSIONING OF THE CLEANROOM.**

---

To develop a zoning concept suitable for the production of injection and infusion systems, the planners at IE Plast were able to rely on their many years of experience in production in a regulated GMP environment and their specific cleanroom expertise. They found a solution that minimizes the size of the critical cleanroom zone, which requires high investment. To ensure efficient operation in compliance with GMP, the zone concept extends across the entire production building, including the associated zone transitions and airlocks.

# 4 ADVANCE CONSTRUCTION OF FOUNDATIONS AND ROUTES

## A FORWARD-THINKING APPROACH TO CONSTRUCTION.

The construction of the new Ypsomed production plant on a greenfield site gave the planners and their client the freedom to execute the ideal factory model without any restrictive conditions. From the outset, the future development steps outlined in the master plan had to be taken into account. The first stage comprised a building area of around 24,000 m<sup>2</sup> with a backbone, production hall, assembly, packaging area, warehouse, and raw material supply. Production was distributed across three halls, with one hall serving as a reserve that can be made ready for production at short notice and equipped with an additional cleanroom if required.

# 5 TRANSPARENT AND TRUST-BASED COOPERATION ON EYE LEVEL

## PLANNING RELIABILITY THANKS TO PARTNERSHIP.

Ypsomed's new production facility in Schwerin is a showcase project that sets new standards in factory construction. The close cooperation between the client and the IE planning teams, the pooling of expert knowledge, industry and process know-how, and mutual trust in the competencies of the partners involved were crucial to the success of the project. The first major step into the future has been taken. The interfaces for the next step have already been implemented: mirroring the current production plant across the warehouse axis, which will double production capacity.



**36 MONTHS**

› Planning and construction period



**24.000 m<sup>2</sup>**

› Building area

**100.000 m<sup>2</sup>**

› Area



**EUR 100 MILLION**

› Investment volume



**SERVICES**

› Overall responsibility as general contractor



# IE PLAST

The specialist for industrial buildings.

## We are the IE Group: Your specialist for industrial buildings.

We plan, design, and construct industrial buildings. Our goal is to maximize the efficiency of your production - with the help of industrial buildings that are perfectly tailored to your manufacturing processes. We work in manageable and therefore effective teams of industry experts whose motivation and initiative you can rely on. Because at our company, all employees are involved in the business. It goes without saying that we also give you guarantees on costs, deadlines, and quality. **IE Plast, IE Food, IE Life Science** and **IE Technology** are part of the IE Group, which has been on the market since 1966 and offers the necessary financial backing - even for large construction projects.



AT HOME IN YOUR INDUSTRY



ENTREPRENEURIAL THINKING AND ACTION



ALL EXPERTS UNDER ONE ROOF



SECURITY THROUGH GUARANTEES

## CONTACTS

### IE Life Science Zurich

Wiesenstrasse 7  
8008 Zurich | Switzerland  
T +41 44 389 86 00  
zuerich@ie-group.com

### IE Life Science Munich

Paul-Gerhardt-Allee 48  
81245 Munich | Germany  
T +49 89 82 99 39 0  
muenchen@ie-group.com