



**PLAST**

The specialist for industrial buildings.

**Weidmann Medical Technology AG**

**INSIGHT**



**A healthy order situation is extremely gratifying. However, it also poses a challenge if a company falls behind with production. Injection molding specialist Weidmann Medical Technology took action before this happened: the company decided to expand its cleanroom capacity as quickly as possible. IE Plast successfully delivered the project on schedule as the total contractor.**

Weidmann Medical Technology is one of the leading independent Swiss injection-moulding system suppliers. The long-established company enjoys an excellent reputation worldwide in the medical technology and pharmaceutical industries. Since 2000, Weidmann Medical Technology has been operating at its Bad Ragaz site, which was expanded in 2008, doubling the cleanroom production area in the process. The current range of services essentially includes primary packaging, closures, and safety components for the pharmaceutical industry; consumable components for in-vitro diagnostics applications; lancing devices using insert-moulding and two-component technology for diabetes care; as well as customised laboratory products. Due to the continuously increasing demand for these high-quality precision products, an expansion and upgrade of the cleanroom to ISO 7 became unavoidable after 17 years.

# CLEANROOM RENEWAL DURING ONGOING OPERATIONS.

**CONVERSION AND  
EXPANSION IN RECORD TIME  
AT WEIDMANN MEDICAL  
TECHNOLOGY AG**



*“ We were particularly impressed by the performance record, references, and industry expertise of IE Plast's planners and engineers. Another important factor was that IE Plast was able to handle our project as a total contractor. ”*

*Gerhard Marchon,  
Head of Technology at Weidmann Medical Technology*

# SUCCESS FACTORS

# 1

AMBITIOUS SCHEDULE FOR A DEMANDING PROJECT

## **EFFICIENCY FROM A SINGLE SOURCE**

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In May 2018, the decision was made to proceed with the renewal and expansion project, which had an ambitious schedule. A planning and construction partner had to be found who was capable of dealing with time pressure without compromising on execution and quality. After a brief evaluation process, the contract was awarded to IE Plast. For scheduling reasons alone, the principle of “planning and execution from a single source” made sense, as continuous project management with a single partner significantly supports the efficiency of the collaboration and reduces interfaces.

# 2

ONGOING PRODUCTION UNDER CLEAN ROOM REQUIREMENTS

## **CONVERSION WITHOUT PITFALLS**

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The criteria for awarding the contract were clearly defined: a guarantee was expected for adherence to cost, schedule, and quality. A key requirement was that the conversion had to be carried out without exception during ongoing operations. This directly addressed one of IE Plast’s core competencies: thanks to many years of experience with numerous construction projects in the medical technology and life-science sectors, as well as in-depth knowledge of processes in plastics manufacturing, the IE planners are highly familiar with the challenges of building during ongoing operations while maintaining clean production.

The planning had to take various factors into account: not only must the machines continue running under cleanroom conditions, but the inflow and outflow of materials, the handling processes, and the overall goods flow in the vicinity of the production equipment must be protected from contamination caused by construction activities.

# 3

STRICT SEPARATION OF MATERIAL AND PERSONNEL FLOWS

## **LOGISTICS PLANNED WITH COMPLETE PRECISION**

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To avoid any risk, the strict separation of material and personnel flows is essential. This applies both to operational processes and to construction activities. Planning expertise is equally required with regard to building services: the supply of production-relevant media such as power, process cooling, and compressed air, as well as raw-material feeding, ventilation, and air-conditioning, must be ensured without interruption.

In connection with clean production, any changes and adjustments to the production layout required by the conversion are particularly critical. For new machines and machines that need to be relocated, hygienisation is required before installation. In principle, cleanroom hygiene protection must be maintained continuously throughout the conversion of the machinery. This naturally also applies to building access points outside the cleanroom, as these represent a contamination risk and thus a potential safety hazard.

# 4

COST, SCHEDULE AND QUALITY COMMITMENTS FULLY MET

## QUALITY YOU CAN RELY ON

The careful planning and the prudent construction management by IE Plast ensured a smooth project execution. Clean production was not impaired at any point during the entire construction period. Additional time was saved because the client also commissioned IE with the qualification process. Here, a planning-oriented and risk-based qualification approach was applied - one that begins already during the design phase and accompanies all subsequent project stages.

By meeting the ambitious schedule and the stringent quality requirements, IE Plast once again demonstrated its reliability and proved itself to be a dependable planning and construction partner.

# 5

TOGETHER TOWARDS THE GOAL

## TEAMWORK

Construction during ongoing operations requires close collaboration and continuous communication between the client, planners, construction management, and contractors. With a tight schedule, cooperation and coordination become key factors for the project's success. Crucial to this is the precise alignment of operational, production, and construction planning.

In the expansion and renewal of the cleanrooms at Weidmann Medical Technology, the interaction between all parties involved was exemplary. After nearly six months of planning and five months of construction, the project was completed on schedule.



### 11 MONTHS

> Planning and construction



### 500

> Cleanroom Produktion area



### 3,2 Mil. CHF

> Investment volume



### Services

- > Concept planning
- > System planning
- > Execution as total contractor
- > Qualification



### Success Recipe

- > Designed „from the inside out“
- > Close collaboration between IE and the client
- > Extensive Industry Expertise



# 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**

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## CONTACTS

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