



Well planned is better built

After decades at the same location, the time had come for Swiss extrusion company **profilsager** to build a new facility on a greenfield site. The aim was to create sufficient opportunities for future growth. In addition, **profilsager** wanted to increase the efficiency of its production facility, which was spread across several buildings at the old location. The initial ideas and sketches from **profilsager** therefore envisaged a new building that would combine all functions under one roof. However, it soon became clear to the company that a detailed concept for the interior of the new hall was needed first.

profilsager commissioned IE to develop the operating concept, thereby avoiding a birth defect that many companies later regret. After all, industrial construction without a precisely defined operating concept is like a tailor-made suit where, unfortunately, the exact measurements of the future owner were forgotten.

PLANNING AND CONSTRUCTION PERIOD

- › 2,5 years

CONSTRUCTION SCOPE

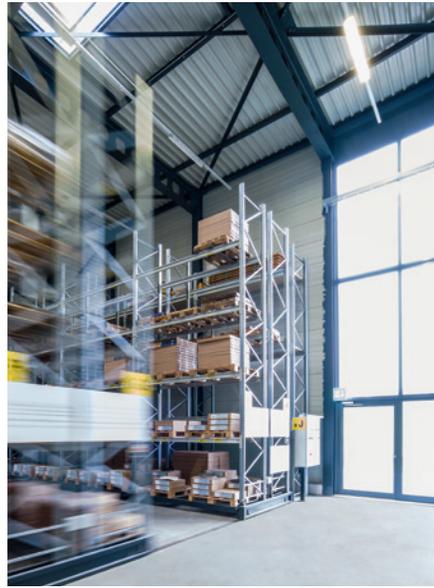
- › Floor space: 7.300 m²
- › Storey height from the ground floor: 10,25 m

INVESTMENT TOTAL

- › CHF 15 million (construction and installations)

IE SERVICES

- › Master plan
- › General planning
- › New building
- › General contractor for the building execution



Operations planning: all the facts on the table

Starting from the core of production - the extrusion machines - IE engineers developed the optimal operating layout: How are the machines supplied? What steps does production involve? What product groups are there and what functions? How do they relate to each other? Who therefore needs to work near whom?

A glance at profilsager's products shows just how important it is to answer these fundamental questions: the company manufactures plastic profiles that are up to twelve meters long. This results in very specific requirements for intralogistics and the storage system. Only once a complete picture of all materials, functions, and processes was available could the machines be optimally arranged and the flow of materials and people planned as efficiently as possible.

IE developed the architecture based on this operating concept – true to the motto: always plan from the inside out.

Extruder: ideally supplied and flexibly expandable

IE Plast's experience in the plastics industry is evident in its suggestions for the layout and supply of the extruders. IE implemented a flexible platform system: a steel platform was built at the rear of the extruders to supply the machines with electricity, water, compressed air, and raw materials. With the help of the platform system, additional extruders can be easily added and connected during ongoing production. IE thus ensured that the space is used particularly effectively and that production capacity can be expanded without any problems. This also applies to the building services, which can be flexibly adapted. The first stage of expansion involves compacting the existing machines, while the second stage involves a building extension.

After around 18 months of planning and a construction period of 14 months, profilsager began operating the factory in January 2013. As the general contractor, IE guaranteed that this deadline would be met, as well as the costs, functionality, and quality of the new building. Thanks to efficient processes, operating costs have fallen significantly compared to the old location, also thanks to IE's resource-saving implementation: Where possible, waste heat is used for heating - from production to compressed air generators to refrigeration machines.

„The new building creates optimal conditions for securing the long-term future and development of our company.“

Owner Rudolf Sager

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