



PLAST

The specialist for industrial buildings.

Aubry
Präzision in Spritzguss

AUBRY PRODUKTIONS AG

INSIGHT



Aubry Produktions AG manufactures highly precise injection-moulded parts and enjoys an excellent reputation among well-known customers in the industrial and consumer goods sectors. When the company was no longer able to keep up with the steadily increasing volume of orders, it began considering an expansion of its production. This was also intended as an opportunity to modernise operations and further strengthen its innovative capacity. In IE Plast, Aubry found a suitably qualified planning partner for the project.

For more than 50 years, the name Aubry has stood for the highest quality and precision in injection-moulding technology. The traditional family-owned company, based in Neuenhof near Baden, covers the entire value chain: from prototyping of injection-moulded parts to toolmaking, production, component finishing, and the assembly of sub-modules. The company is now managed by the third generation. With a new building constructed directly adjacent to the existing production facility and a process organisation aligned with state-of-the-art technology, the successors of André Aubry are ideally positioned to continue the SME's success story. For the planning and execution of the project, Aubry relied on IE Plast, which acted as the total contractor and proved to be the ideal planning partner thanks to its combined expertise in both construction and operations.

HIGH-TECH ENVIROMENT FOR INJECTION-MOULDING EXCELLENCE

PLANNING AND EXECUTION OF THE **NEW FACILITY** FOR **AUBRY PRODUKTIONS AG**

«Three factors convinced us to work with the specialists at IE Plast for the expansion of our production: their compelling inside-out planning approach, their strong industry expertise, and their many years of experience in industrial construction. It was a good decision.»

*Simon Aubry,
CEO and Head of Sales and Development*



SUCCESS FACTORS

1

EXPANSION UNDER FAVOURABLE CONDITIONS

EFFICIENT AND TARGETED PROJECT PLANNING.

The initial situation for expanding the production of the injection-moulding specialist Aubry was favourable: in 1980, the company relocated its site from Oberrieden (ZH) to a newly acquired plot in Neuenhof near Baden. In 2003, the production hall was extended with an additional storage level. Directly next to the production building, a second industrial structure had stood since the 1980s, which Aubry had rented out to a garage. Once the decision to expand production had been made, it was logical to utilise the full potential of the site for the company's own operations. Aubry commissioned IE Plast to develop a master plan for the production expansion, taking the existing infrastructure into account.

The IE planners recommended demolishing the ageing garage building and constructing a two-storey new building on the freed-up area. The ground floor was to house production with the injection-moulding machines, while the upper floor was designated for setting up the storage area. The existing building would remain in place and continue to be used.

2

PROVEN INSIDE-OUT PLANNING PRINCIPLE

OPTIMAL PROCESS DESIGN.

The planning concept, preliminary studies, cost estimate, and scheduling were convincing: Aubry commissioned IE Plast as the total contractor with overall responsibility for planning and execution, giving the IE planners the green light to begin the planning phase. They started with the operations planning and continued developing the project in accordance with the proven IE inside-out approach.

For the capacity expansion, IE developed the process layout in close collaboration with the Aubry team. Key focus points included the arrangement of 18 injection-moulding machines, the concept for the supply of technical media, and the logistics concept defining material and personnel flows. A crucial aspect was the operational integration of the production areas in both the existing building and the new facility through intelligent interface planning. Based on the operational workflows, the architectural concept was derived, connecting the two buildings into a coherent whole and enabling flexible use in the future.

3

"AS MUCH AS NECESSARY" PLANNING APPROACH

EVERY FRANC WELL INVESTED.

The cost framework defined by the client required pragmatic planning and a strong cost awareness during the construction phase. Investments were made consistently where they served the function best — with a clear focus on the production areas where Aubry AG generates its value creation. A demolition of the existing production hall and a complete new construction of the entire factory were never under consideration. The new building was constructed without a basement, as there was no operational need for one.

A simple construction method was chosen for the execution of the new facility: predominantly precast concrete elements were used. The interior fit-out corresponds to a well-executed shell construction that, in terms of lighting and acoustics, exceeds current labour legislation requirements.

4

SUSTAINABLE OPERATIONS AND BUILDING PLANNING

ENERGY-EFFICIENT, ENVIRONMENTALLY FRIENDLY PRODUCTION.

Aubry has always been committed to the economical use of energy and to sustainable production. This commitment is reflected both in the construction of the new building and in the concept for energy and media supply. The new facility features a ventilated facade that ensures optimal moisture protection and effective thermal insulation. The systems for utilising waste heat are designed to serve both properties.

Key elements of the overall system include a reversible chiller and a water-to-water heat pump to recover heat from process cooling, which is additionally supported by free cooling. Mechanical ventilation and air-conditioning of the production areas ensure high indoor air quality and maintain room conditions that contribute to consistent product quality. A photovoltaic system on the roof generates clean electricity and reduces the demand from the external grid.

5

KAPAZITÄTSSTEIGERUNG UM ÜBER 100 PROZENT

FREIE BAHN FÜR WACHSTUM UND INNOVATION.

The factory building planned and realised by IE Plast provided Aubry with a doubling of its production area and, thanks to a well-designed process organisation and a high degree of automation, a significant increase in productivity. A key contributor to this improvement is the intralogistics system, which is tailored to the company's production concept and the specific spatial conditions. The pallet warehouse on the upper floor of the new building is operated using conventional conveying equipment. Additional internal transports are supported by high-capacity overhead cranes and a goods lift. For raw material handling, the IE planners supplemented the system with an additional vacuum circuit, new raw-material lines, an extra raw-material station in the new building, and a new control system.

Aubry's new production infrastructure is designed for flexibility. For example, the upper floor can also be used for production if required in the future. There are likewise no obstacles to introducing an automated guided vehicle (AGV) system. Aubry is now perfectly equipped to strengthen and expand its market position as a precision leader in injection-moulding production.



28 MONTHS

› Planning and construction period

JULY 2024

› Construction beginn

SEPTEMBER 2025

› Completion of the new building and handover to Aubry Produktions AG



2170 m²

› Total floor area

15 800 m³

› Building volume



PERFORMED BY IE PLAST

› Project management as total contractor
› Feasibility study, concept design, building project / detailed design, tendering, and execution



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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