

 **TECHNOLOGY**

The specialist for industrial buildings.

 **SSR**
PERFORMANCE

SSR PERFORMANCE

INSIGHT

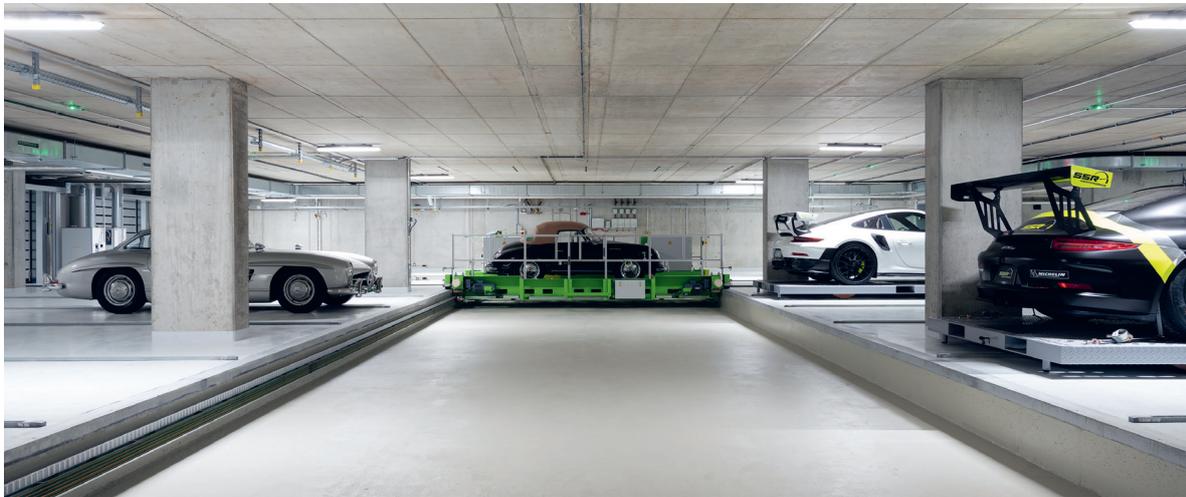


SSR Performance in Munich is passionately dedicated to high-class automobiles and motor racing. An exclusive circle of owners of historic vintage cars and classic automobiles shares this fascination. For them, the company has created a building in which these automotive treasures are maintained, cared for, and expertly stored with great care and attention. IE Technology acted as the general contractor and general planner for this special construction project.

Stefan Schlund, owner and managing director of SSR Performance GmbH in Munich, has motor racing in his blood. With a team of equally enthusiastic specialists, the company develops, optimizes, and maintains customized vehicles for motorsport as well as sports cars and super sports cars for the road. Stefan Schlund decided to provide motorsport enthusiasts and owners of vintage and classic cars with a range of services that is unique in Europe: a nitrogen garage for vintage cars and a performance test bench for sports cars were to be set up under one roof. This project posed special technical challenges that went far beyond the requirements of building services in conventional industrial buildings.

STORAGE OF CLASSIC CARS AND SPORTS CARS.

NEW BUILD WITH HIGH-TECH INTERIOR FOR SSR PERFORMANCE.



«We would build with IE Technology again anytime. We particularly appreciated the openness, straightforwardness, directness, and transparent approach of the IE planners. We found IE to be a partner that doesn't beat around the bush, but provides substantial support.»

*Stefan Schlund,
CEO SSR Performance*

SUCCESS FACTORS

1

INVOLVEMENT OF SPECIALISTS FROM VARIOUS DISCIPLINES

COORDINATION AS A SUCCESS FACTOR.

Two key technical requirements shaped the project: firstly, highly effective corrosion protection and a high degree of automation in the storage areas for classic cars. Secondly, the operator's ambitious performance targets for the test bench with simulations in the four-digit horsepower range. It was therefore clear from the outset that these complex functions would require the involvement of specialist companies. Expertise was required in the fields of oxygen reduction, robotics, ventilation technology, and fire protection, as well as other specialist areas.

2

IE TECHNOLOGY AS GENERAL CONTRACTOR AND GENERAL PLANNER

ONE CONTACT PERSON FOR EVERYTHING.

The client commissioned the renowned Munich-based architectural firm Boesel Hohberg Architekten (BHA) to plan the building concept. As it wanted to concentrate overall responsibility and, in particular, the coordination of the companies involved in a single point of contact, it also brought IE Technology on board. IE Technology accompanied the project as general contractor and general planner, working closely and cooperatively with BHA.

The planners had no comparable reference examples to draw on. Instead, they had to develop prototype concepts for both the nitrogen garage and the high-performance test bench. The result was a seven-story building with three upper and three lower floors. The second and third basement levels house the parking levels for the storage of high-value vehicles. The performance test bench and the workshop with eight lifting platforms were built at street level on the ground floor. The remaining floors house the technical centers, storage rooms, showroom, conference and office areas, and other functional rooms.

3

LOVED OBJECTS WELL PROTECTED

WITH A NITROGEN ATMOSPHERE AGAINST CORROSION.

The parking levels in the basement offer space for 141 vehicles. In the hermetically sealed nitrogen garage, the oxygen content can be reduced to as low as seven percent through nitrogen inerting. Humidity and temperature are continuously monitored. This creates ideal conditions for effectively protecting the classic cars stored there from corrosion and mold growth. In addition, the nitrogen atmosphere ensures highly effective fire protection. IE Technology is familiar with nitrogen technology from projects involving deep-freeze systems and was able to provide expert support to its specialist partner. The storage of the vehicles is fully automated: after professional cleaning and a comprehensive check by the experts at SSR Performance, a specially developed flat robot system transports the valuable objects to their parking space. Only the tires are gently touched during this process. Sophisticated security systems in accordance with VDS guidelines protect the vehicles from theft.

4

A PERFORMANCE TEST BENCH OF THE SUPERLATIVE

RECORD RESULTS IN THE SIMULATION.

The performance test bench is one of the most modern and powerful facilities of its kind in Europe. It measures power outputs of up to 2000 hp and speeds of up to 350 km/h. Two turbines, each with a diameter of 1.5 meters, installed on the third floor blow up to 130,000 m³ of air per hour into the system via the main nozzle and up to another 4000 m³ via two secondary nozzles. The air speed in the test bench can reach up to 200 km/h. The intake temperature remains constant at +20°C, regardless of whether it is freezing outside or hot in summer. IE Technology's technical expertise was also incorporated into the construction of the performance test bench by a specialist and was greatly appreciated by the designers.

5

HIGH CUSTOMER SATISFACTION

COMPLIANCE WITH COST AND QUALITY TARGETS.

As a general contractor for sophisticated industrial buildings, IE Technology guarantees that budgets, quality, and functionality are met. This was also the case for this project, even though it involved venturing into uncharted technical territory with the associated uncertainties. The client was more than satisfied with the work carried out by IE Technology. In particular, they praised the prudent and professional coordination, the openness and flexibility, and the rapid finding of solutions to unexpected problems. Additional services provided by IE Technology, such as business calculations to determine the monthly parking space costs, contributed to the customer's satisfaction.



CLIENTS

- › HW Bogen GmbH, Munich
- › SSR Performance GmbH, Munich

PLANNING

- › Boesel Hohberg Architekten, Munich

CONSTRUCTION EXECUTION

- › IE Technology, Munich



IE TECHNOLOGY SERVICES

- › Concept and system planning as general planner
- › Construction execution as general contractor



JULY 2017 - JUNE 2020

- › Planning and construction period



10.000 m²

- › Operating area



IE TECHNOLOGY

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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