



SHORT PORTRAIT

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CORE COMPETENCES

Since 1990, ESORO has been a successful development contractor and offers innovations, engineering, prototyping and series-production preparation as an all-in service. ESORO operates only in the civilian sector.

ESORO's core competences focus on the sectors of fiber-reinforced plastic, concept vehicles, product development and system integration. Thanks to the broadly diversified experience from a range of technology sectors, ESORO avails of an extensive and well-founded know-how. This makes it possible for us to efficiently familiarize ourselves with and solve interdisciplinary problems in an innovative way.

The ESORO AG company is independent. It is owned by management and staff.

CONCEPT CARS

Concept vehicles by ESORO - we consider the extraordinary ordinary. ESORO designs, develops and implements high-quality concept vehicles from the initial idea through to the "ready-to-show" vehicles. Prototypes are fully operable and homologated so that the concept can also be experienced and driven. An innovative and experienced team is able to handle complex projects very efficiently and in a very short time by the appointed deadline. When doing this, ESORO can fall back on state-of-the-art development tools, an excellent prototype workshop, experience from over twenty vehicle projects and a choice network of component suppliers. In its capacity as prime contractor, ESORO is the direct contact for customers and assumes responsibility for the overall project.



DRIVE TRAINS

ESORO's roots lie in sustainable mobility. Since the company was founded, ESORO has been working intensively in the field of conception, implementation and tests of alternative and optimized vehicle concepts and drive systems. Electric-powered racing vehicles, various passenger cars suitable for everyday use with electric propulsion system, a very efficient IC-engine propelled vehicle, the TwinTrak hybrid system and the HyCar fuel cell vehicle have been designed and developed by ESORO. ESORO is thus one of the few companies in the world with well-founded experience in development and operation of electric, hybrid and fuel cell drives.

And all this is certainly not just an academic exercise. We have implemented all drive trains in concept vehicles and tested them in everyday use. Good design and perfect workmanship are also part of our commitment of our vision.



PRODUCT DEVELOPMENT

From the initial idea through to the product ready for series production - ESORO supplies the entire scope of services for this or partial aspects of it.

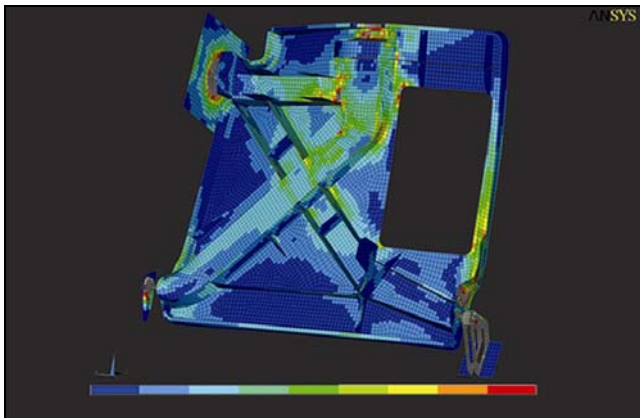
Complex problems are considered integrally and implemented in solution concepts. In this process, design, simulation and engineering come into being as the result of constant, mutual interaction, thus leading to efficient and customer-orientated elaboration and assessment of the concepts.

The solutions elaborated are implemented to form "hardware" in our workshop - the possibilities extend from the simple function specimen through to the high-quality prototype, almost ready for series production.



COMPONENT DEVELOPMENT

As a competent partner to various customers, ESORO develops components from initial conception through to pre-production samples. In-house specialists optimize the component properties and characteristics throughout the entire development process. The ESORO know-how is based on many years of experience in the composite sector. The use of modern software tools for modeling component, process and material allows efficient and reliable component design.



NEW PRODUCTION PROCESSES

ESORO develops innovative production processes on behalf of its customers. One example of this is development of the novel E-LFT process which was presented to the public for the first time in late 2002. Based on the need for low-cost, environment-friendly, lightweight components with a high structural loading strength, this new process was developed, patented and made ready for series production on behalf of the Albert Weber GmbH company. The close links between component development and process development and broad knowledge in the sector of material technology form the pillars for efficient handling of a development process of this order of magnitude.

