

In the global automotive business arena design complexity, speed, manufacturing precision, cost, quality and overall manufacturing performance are paramount to **SUCCESS**. Elsyca provides **innovative** "virtual" process simulation using **unique process modelling software**. Software and expert engineering services are offered to **automotive industries** for a broad range of electrolytic process applications. These provide automotive industry suppliers a **unique advantage** - The electrochemical intelligence to overtake and lead in the field of automotive electrochemical engineering - with **foreseeable and exceptional results**.



Let Elsyca steer your electrochemical processes to new horizons.
For more information, a business consultation or even a test-drive, contact us today:

AUTOMOTIVE SOLUTIONS

Depict, predict and realise the future
with unique electrochemical intelligence.

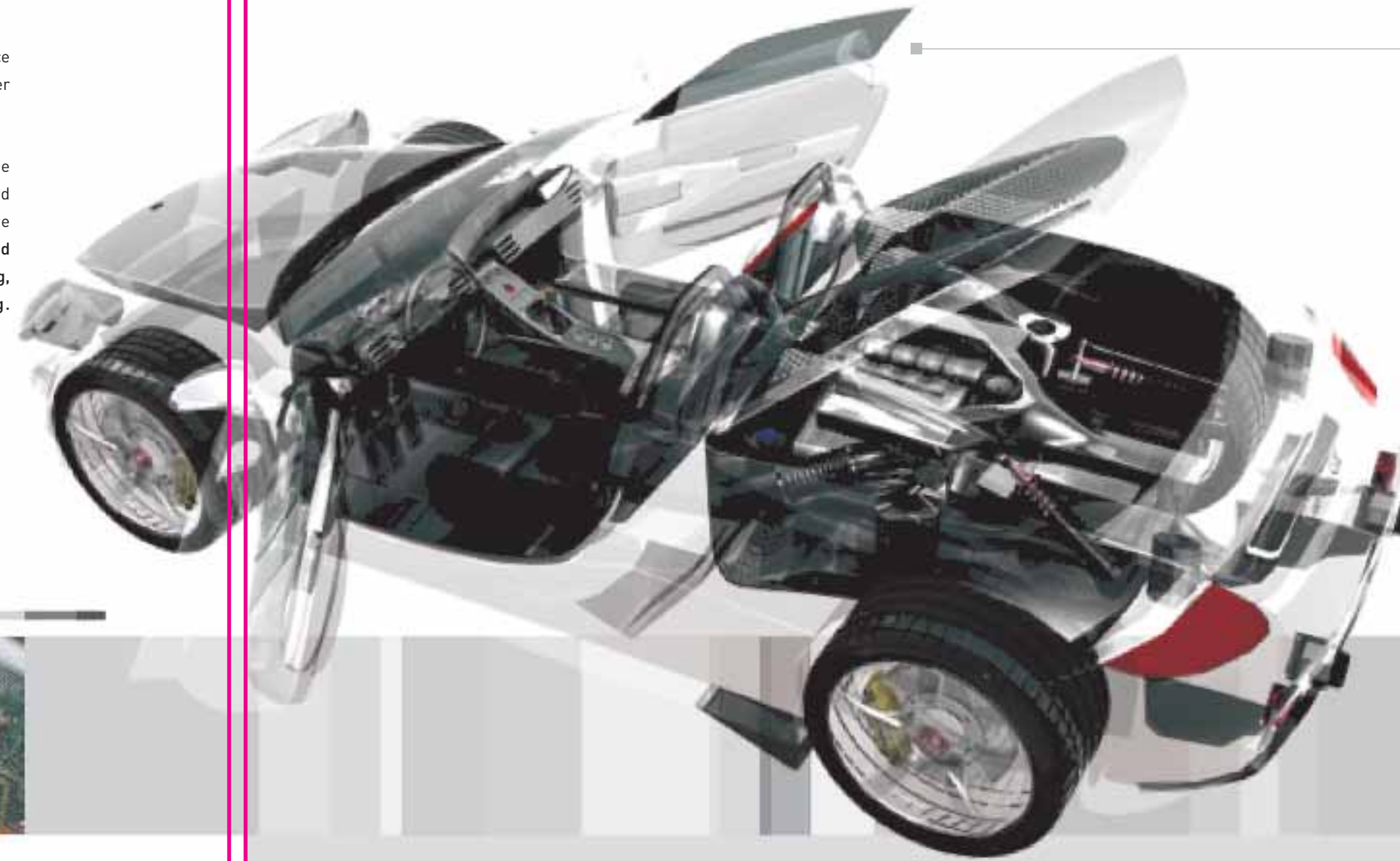


Meeting the Automotive Challenge

■ Globally, automotive industries are under growing pressure to meet market challenges. New product models, built for both new and existing markets often have innovative designs. The leading OEMs are seeking new ways to shorten product development time and manufacture innovative products all while managing costs and the associated risks of new product runs. More and more automotive OEMs look to their suppliers for better engineering solutions to produce better products.

As an industry player who sees this shift in the balance of engineering responsibility as an opportunity, rather than a burden, you are not alone.

Today, Elsycy is fully geared to help you meet the challenge with automotive solutions and dedicated expertise across the full range of automotive electrochemical processes including; **decorative and functional electroplating, electrochemical machining, electroforming and electrophoresis coating.**



Electrochemical Process Simulation - The Electrochemical Engineering Vehicle of the Future

■ DECORATIVE ELECTROPLATING

Exteriors: front grill, trims, wheels, wing mirrors, logo, door handles, etc.
Interiors: dashboard trims, trunk finisher, door handles, etc.

■ FUNCTIONAL ELECTROPLATING

Brake caliper, shock absorber, piston rod, crank shaft, electronics, chassis, cooling unit, heating system, suspension system, etc.

■ ELECTROCHEMICAL MACHINING

Diesel injection system, transmission system, crown wheel, gear box, etc.
Deburring of several engine parts

■ ELECTROFORMING

Head light reflectors; Moulds for plastic components such as dashboard, trims, etc.

■ ELECTROPHORESIS COATING

Car body sheet



Driving Electrochemical Intelligence

■ Elsycy has grown from its roots as a high-tech spin-off from the University of Brussels (VUB, Belgium) and the von Karman Institute of Fluid Dynamics (VKI, Belgium) to become a global leader of electrochemical engineering software and manufacturing services. In the increasingly

competitive arena of automotive process engineering Elsycy helps manufacturers focus on exceeding those critical performance indicators found in good electrolytic process manufacturing efficiency. "Virtual" electrochemical process simulations are turned into solid process engineering solutions.

Race with a Winning Team

■ Working with you as a team, Elsycy can help you adopt a more fully integrated approach to optimising your management of electrochemical processes; involving your people, systems and your resources. We provide consultation with innovative, flexible, CAD-based process modelling and simulation software. Elsycy simulation software and engineering services enable you to pro-actively develop the most efficient

electrochemical processes needed to meet new product introductions. It's possible to achieve in hours what previously would take days or weeks of costly trial and error electrolytic process improvement.

The advantages overall are increased production efficiencies. Major cost savings are both significant and immediate.

Overtake the Competition

■ Beyond accelerating your production and financial potential, working with Elsycy can also turn greater process efficiency to your strategic competitive advantage: With tools that allow you to visualise and assess complex designs for production feasibility, you can dramatically speed up the time-to-market of new products. And whilst showing a simulated, fully processed "prototype" to a client is in itself a superior marketing tool, the ability to provide fast and accurate cost quotations always helps to seal a deal.

Secure your know-how and take the lead in electrochemical process innovation. Elsycy's solutions provide across the board in-depth insight into your electrochemical processes, helping you to positively direct your technological development.

By capturing, accumulating and distributing your implicit process knowledge, you are not only reinforcing the abilities of your existing knowledge source, but are ensuring continuity and availability of that knowledge for your business.

The Road Ahead

■ What Elsycy does best is look to the future. We remain committed to innovation and electrolytic process improvement. Our team of developers and engineers are continually exploring ways to increase the electrolytic process intelligence and potential of our

offering. But as an Elsycy client you can rest assured that you will always be first to benefit from the many advances in electrochemical intelligence that we foresee. With Elsycy you will be on the cutting edge of electrochemical technology well into the future.