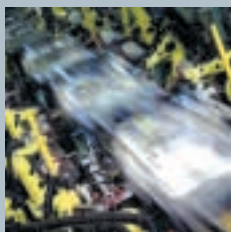


Driven by your success

automotive SOLUTIONS

SIEMENS



Strong competition, increasing cost pressure, and a growing variety of models in the automotive industry make it essential to detect and consequently take advantage of all areas with optimization potential. This is the only way to fulfill the universal demand for continuously increasing productivity and flexibility.

Beating the competition

We want to help you achieve your goals. Our systems and facilities optimize process, quality, and availability. Our Totally Integrated Automation concept makes Siemens the only supplier of a universal automation solution platform in all industries. Using Totally Integrated Automation, we achieve solutions which feature integrated process optimization, high reliability, optimal efficiency, flexibility, and total quality management.





Take advantage of valuable **synergy effects**

We rise to the challenge of complete projects. And we have the extensive process planning and implementation experience to deliver complex, single-source solutions. The advantage is yours: minimal expenditure and risks, optimal overall functionality, and on-time completion.

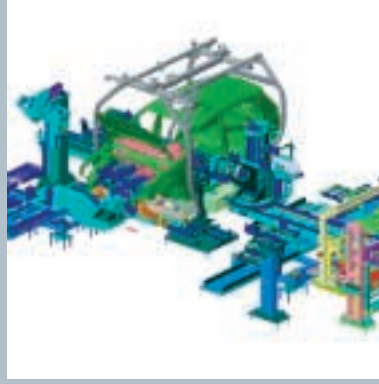
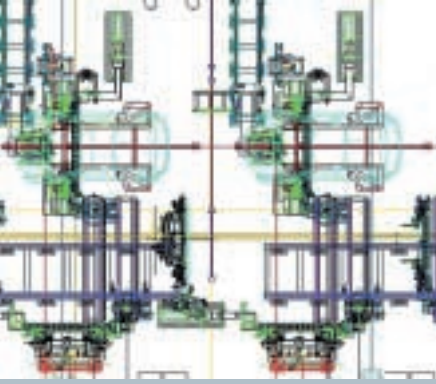
Complete Projects

The economic success

of a complete assembly system greatly depends on the interplay of the installed components – optimized flow, minimized interfaces, and intelligent integration. The key here is a single-source solution to your complete project. And it's our unique know-how that delivers this. Whether modernizing or building from scratch, you profit every time from valuable synergy effects, guaranteed quality, and on-time delivery. And you can be sure that all components operate collectively from the start. We are with you at every phase of the process – from planning and project development to process integration, and from automation to information technology.







Success is planned in virtual mode

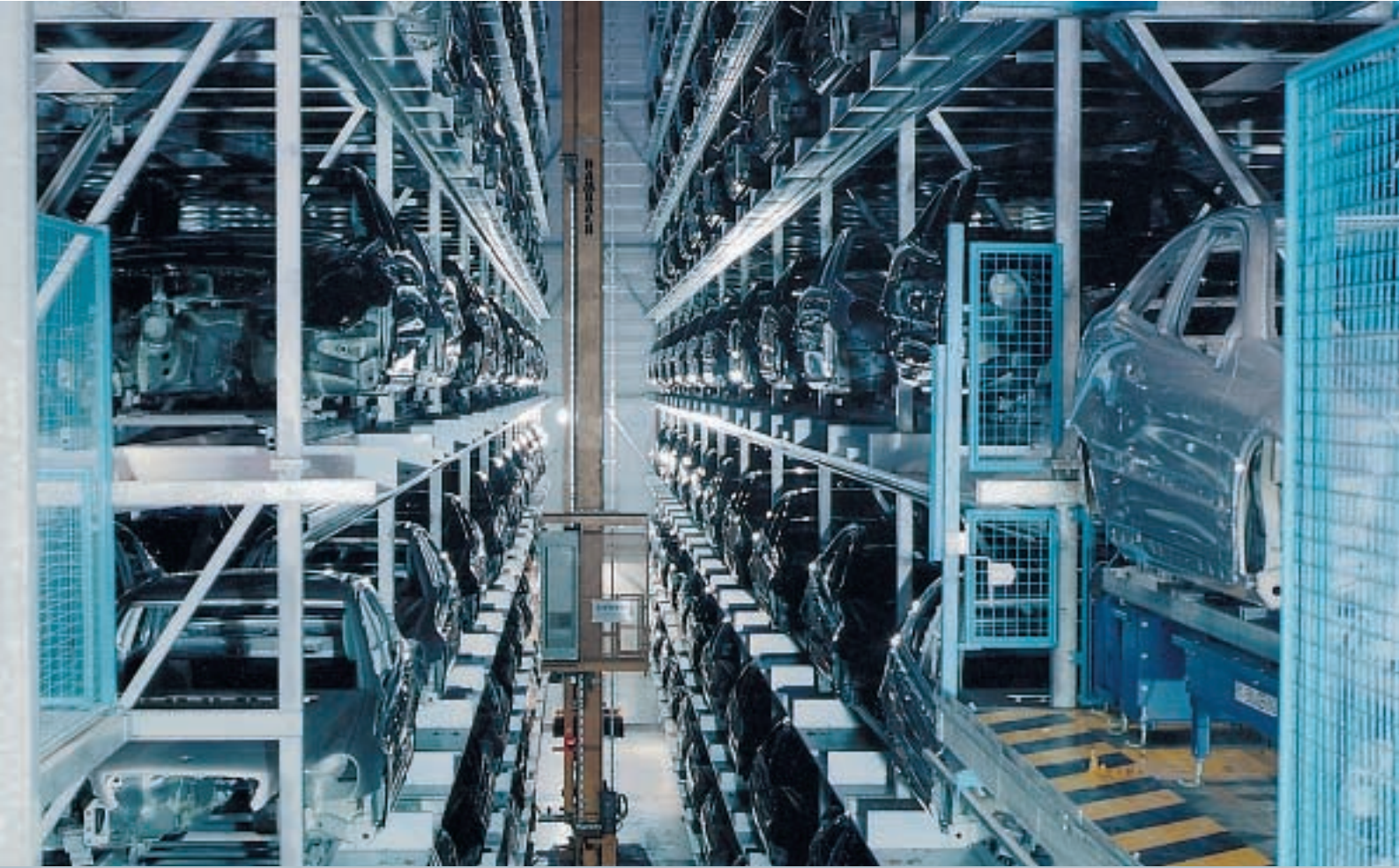
Automotive production is an extremely complex system of integrated processes and components. Specialization has reached a point today in which every facility is virtually its own plant inside a plant.



Planning

Innovative and functional planning plays a crucial role in the success of the complete system. Here, the future is in the "digital factory," which allows us to produce systems faster and more economically. Our work in the field of simulation contributes to considerably higher safety and helps us prevent errors in advance. And simply viewing the system allows possible weaknesses in planning to be recognized long before actual production begins. This process is economical and makes fast solutions possible. Our process also includes inspecting the design virtually at an early phase of the project with Digital Mockup, a computer-based construction tool using 3-D CAD data.





Use your **optimization** potential

A u t o m a t i o n / M E S

The demand for continuously increasing productivity runs through all production and assembly plants like a red thread. This means fast and continuous flow of operations and material, which requires compiling all the data and compounding it with reliable information. Our MES solutions ensure a uniform information flow at all levels. With this system you can have the transparent plant that the automotive industry demands – production without capacity constraints, capital-intensive buffer storage, and losses in quality.

Based on our extensive process know-how, we deliver customized automation solutions for body shops, paint shops, assembly, and logistics. Our solutions not only optimize flow rates, precision, and availability of existing systems, they also enable continuously advancing integration to a universal IT world – an essential requirement to take advantage of existing areas with optimization potential.

The latest automotive technology requires efficient **testing and diagnostic technology**

Innovative automotive concepts are based more and more on networked, intelligent electronic systems and components – a requirement limited by traditional methods of error diagnostics.



Test Systems

Development

Peak performance in the automotive industry is the result of intense research and development and high production quality standards. Thus, it is essential to use test systems that simulate the diverse demands as near to reality as possible, at the same time collecting and assessing the results as rapidly as possible.



Production

The demands on modern automobiles and, therefore, their associated test systems have risen dramatically in recent years. Sharpened product liability laws require more thorough testing during production. Our test engineering solutions have stayed abreast of these developments and the more stringent requirements that resulted. We offer the highest performance with maximum flexibility and adaptability for the widest range of test situations and vehicle models – an optimal price-performance ratio. And this includes extremely ergonomic controls for efficient and fatigue-resistant operation.



Service Center

Future-oriented automobiles are completely high tech. When the vehicle has left production, the technology must continue to satisfy on a daily basis. Innovative and modular diagnostic and information systems are needed for efficient maintenance and repair. The common denominator: intelligent vehicle systems require intelligent diagnostic systems. We design our concepts and products for the future.



Total solutions

Competition in the automotive industry and the ensuing demands make it essential to examine the entire process and its logistics in order to determine and exploit all areas where there is potential for optimization. This is the only way to fulfill the universal demand for continuously increasing productivity and quality.

Our solutions are based on innovations, which meet the needs of the automotive industry.

From digital factory planning through implementation to turn-key completion, our total approach to creating solutions results in optimal functionality, quality, and availability.

Combined with our automation technology, we complete your projects with our standardized and highly integrated assembly and test systems.

You will find your personal contact in the Internet at:

www.siemens.com/automotive-solutions/partners

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