TWT GmbH Information & Engineering Technologies

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COMPANY PROFILE

TWT was founded in 1986 at the Technology Center of Stuttgart University, by engineers who helped pioneer innovative computer aided applications in the field of automotive engineering analysis, product development and design.

Today, TWT is a high-tech engineering partner of

- Automotive industries (DaimlerChrysler, Porsche, Audi, VW, BMW)
- Product design and development industry
- Biomechanics and medical equipment companies.

TWT is satisfying their technological demands with a high degree of professionalism and creative collaboration and thus has been ranked by DaimlerChrysler AG as one of its top engineering partners worldwide.

Innovation is TWT's key driver of competitive advantage, growth, and profitability. Following a ***holistic and systematic approach***, the TWT's extended organizational network develop flexible strategies for converting scientific impulses and achievements into product and services for the industry and the global marketplace. The TWT's roadmap to a successful product includes the major parts of innovation: strategy innovation, new product development, creative approaches to problem solving, idea management, scientific consulting and market analysis.

Our process of innovation is a continuous and recursive rhythm of knowledge based search and selection, exploration and synthesis, concept cycles of divergent thinking, followed by convergence to a feasible and market promising solution.

The company's scientific and innovation activities mainly pertain to the automotive and vehicle industries, product development and engineering, but also covers other scientific fields with high technological demands, like biomechanics, bio-informatics and biosciences, cognitive and expert systems, micro and nano systems, physics and other related domains with synergies of engineering and information technologies.

All across Germany and Europe, the company employs a highly qualified staff of more than 100 scientists in different fields: mechanical engineers, aerospace engineers, electrical, information technologists, product designers, software engineers and economists.

TWT is participating in FP6-IST, FP6-NMP, FP6-SME, BMBF and GSRT funded research and innovation projects related to:

- Engineering, Product Development and Digital Factory
- Biomechanics, Bioinformatics and Medical Microdevices
- Micro and Nano Technologies in Manufacturing, new materials and robotics
- Information Technologies:
    - Cognitive Modeling
    - Knowledge Based Systems
    - Autonomous Agents and Mobile Ambients
    - Cooperative e-Business processes
    - E-Learning and e-Inclusion
    - Multimodal Interfaces
- Virtual Reality in Engineering and Medicine
- Basic research in engineering, medicine, physics, intelligent materials and nanostructures
- Basic research in Human Cognition and Adaptive Usability Engineering