



Engineering Services

Co-operation from A to Z





We support our clients throughout the course of the entire product development cycle. Our main focus is on the process steps of digital development. Our company's highly qualified employees are able to achieve measurable additional benefits for our clients in all areas where complex products are designed, assembled, improved or repaired with the aid of virtual technology. The fundamental basis for engineering services are highly trained

mechanical engineers with well-founded experience in the development of products, experienced consultants with methodological know-how in the conceptual project business, and IT experts with years of long-standing experience in the setting-up of IT and software solutions. Depending on the given situation, additional potential can also result from the combination of the particular service with our company-own DMU software.

Engineering Services		
Consulting	Project work	DMU as a Service (DMUaaS)
Engineering Know-how	Methods and Concepts development	Solution Know-how

Engineers with both excellent systematic and technical qualifications **consult** with and **advise** our clients in respect of the customization, re-design, further development and implementation of their DMU processes. Our clients can furthermore also benefit from our comprehensive DMU software.

If external specialists are required, we transfer our know-how to **projects** to support our clients' long-term interests onsite. The consistent set objective is to achieve a sustained increase in the quality of the digital product.

If an investment in company-internal know-how and software is not worthwhile owing to the fact that this would only be employed on a sporadic basis, then **DMUaaS** is exactly what you need. With **DMUaaS** we address individual topics such as, for example, the calculation of disassembly simulations, and execute them directly for you in the form of a service. Our clients only need to supply the relevant information and data – we will then provide the processed results.

Where can Teraport Engineering Services be employed?

The following examples provide a representative overview of the overall spectrum of Teraport's engineering services. These examples will also serve to give you an idea of the areas of a company in which DMU services can be employed both effectively and in a profitable manner.



Life cycle product development

DEVELOPMENT

Virtual Vehicle / Package

A virtual vehicle is a "living entity", or rather it continually changes and must therefore be monitored. *Set task:* Quick and simple depiction of the development status and rapid identification of problem areas. *Benefits:* Status information

Geometric Verification

A large number of varied parts and assemblies, different construction engineers, locations at different stages of development. In other words; the components tend to be not consistent with each other. *Set task:* Evaluation of the respective problem areas by qualified engineers with technological software support. *Benefits:* Re-

duction of possible hardware modification at the stage of production. *Quality feature:* In addition to the attendant problem identification and determination of the solution, our engineers excel in the continual further development of the existing methods.

PRODUCTION PREPARATION

The manufacturing of complex products must be planned before the start of production. *Set task:* Set-up of virtual assembly planning and assembly sequence planning. *Ben-*

efits: Efficient planning possibilities due to the employment of experts, and hence the avoidance of unnecessary or expensive hardware tests.

MONITORING OF SERIES PRODUCTION / MODEL UPGRADING

Components continue to be developed and customized even after the launch of series production. The checking of geometric consistency must therefore also be continued. *Set task:* Continual checking for the manifestation of

changes and compensation of reduced capacities with the application of new methods and concepts. *Benefits:* Maintaining the quality of the product.

SERVICE / SALES

Graphic illustrations make technical documentation easier to use, and clearer and easier to understand. *Set task:* Optimal employment of resources when drawing up documentation. *Solution:* 3D and PDM know-how facilitates direct

access to development data. *Benefits:* Shorter processing times and an increase in the quality of the graphic illustration (2D/3D illustrations).

MAINTENANCE / REPAIR

Maintenance and repair work is defined by set work units. *Set task:* Optimization of work units with new procedures and methods. *Solution:* Qualified engineers develop solu-

tions by means of tests on the virtual product. *Benefits:* The manufacturers' warranty costs are reduced.

Set Objectives

We have set ourselves the task of supporting our clients in the development of their products; from the first design sketches, to the start of series production and beyond. Our aim is to be both a creative force and an innovator. In this way, we are able to help our clients to achieve their set objectives, to devise optimized processes, to achieve higher quality and to reduce costs.

This is only possible with extremely well-trained employees. We hence provide extensive training for our employees which is over and above the specialist know-how generally required in our field of business. This is the fundamental basis for innovative and interdisciplinary solutions geared to meet our clients' set tasks and problem areas.

Contact Information

Further details can be found in our comprehensive information material and on our website (<http://www.teraport->

[engineering.com](http://www.teraport-engineering.com)). You can also contact us direct at the following address:

Teraport GmbH

Aschauer Strasse 32a
81549 Munich

Tel.: +49 89 651086 700

Fax: +49 89 651086 701

Mail: info@teraport-engineering.de

www.teraport-engineering.com