COMPETENCE IN THE SIMULATION OF
FLUID-TECHNICAL MECHATRONICAL SYSTEMS

DSH*plus*

FLUIDON
Gesellschaft für Fluidtechnik mbH

SIMULATION – AN INDISPENSABLE INSTRUMENT IN TODAY'S COMPETITION ON THE MARKET

To stay competitive new products have to be developed in the shortest possible time. For that reason errors have to be determined in an early state of the development process, so that cost-consuming iteration loops in the product development are avoided.

With the help of a simulation-based design in the beginning of the product conception it is possible to get new products faster to the market - with a benefit in quality and at lower costs.

But the computer-based simulation not only shortens the expense for prototypes and testing cycles. With the usage of simulation the development process for the whole product life cycle can be optimized.

Simulation offers innovative possibilities for e. g.:

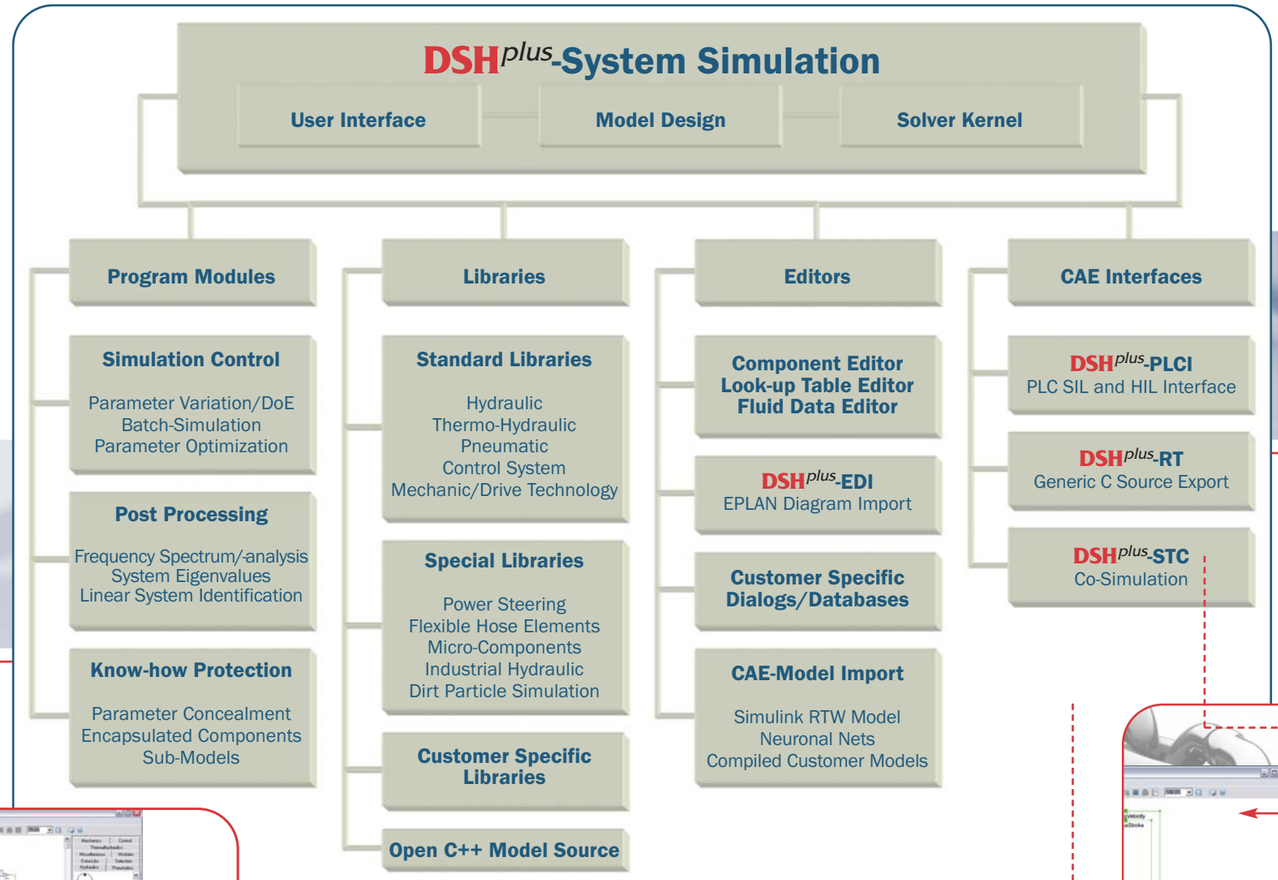
- pre-design of dynamic systems
- virtual initial operation of plants and components
- optimization of existing components and systems
- analysis and elimination of problems in already operating systems (e. g. abrasion, vibration or energie consumption)
- feasibility analysis of new innovations

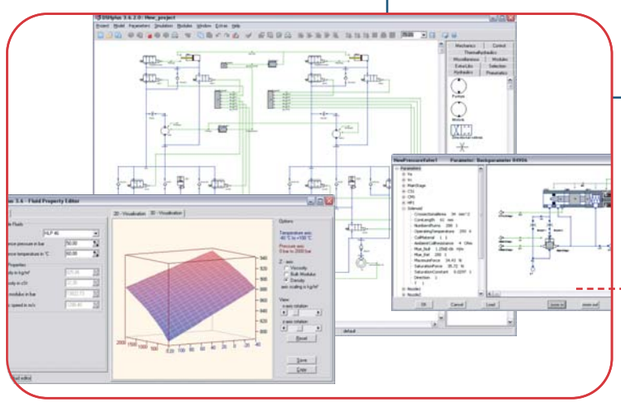
SIMULATE – BUT PROPERLY

In the calculation of complex fluid power-mechatronical systems leading companies from different technology areas and all over the world bank on DSH*plus* today.

Apart from a great amount of different technical libraries (for e. g. hydraulic, pneumatic, thermo-hydraulic, mechanical, control, electrical, or magnetic components) DSH*plus* provides a lot of different modules for pre- and post-processing. DSH*plus* models base upon an open C++ source code, which allows the user a better understanding of the system behaviour and which, of course, can be locked for the purpose of sharing the models with a third party.

The DSH*plus* Simulation Tool Chain (STC) allows different ways of model im- and export. Besides the different interfaces to other software programs there exist a lot of hardware interfaces for hardware-in-the-loop simulation or for coupled simulation with programmable logic controllers respectively.





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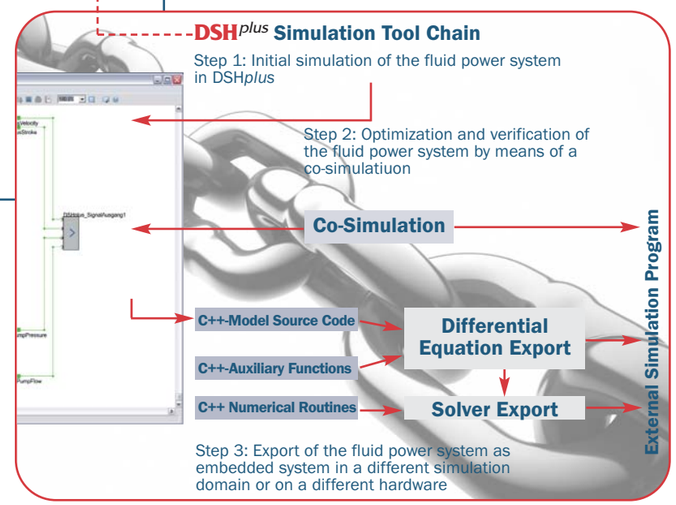

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