



Supporting your vision

*Having the edge – with precise, efficient and safe machinery designed in SimulationX*

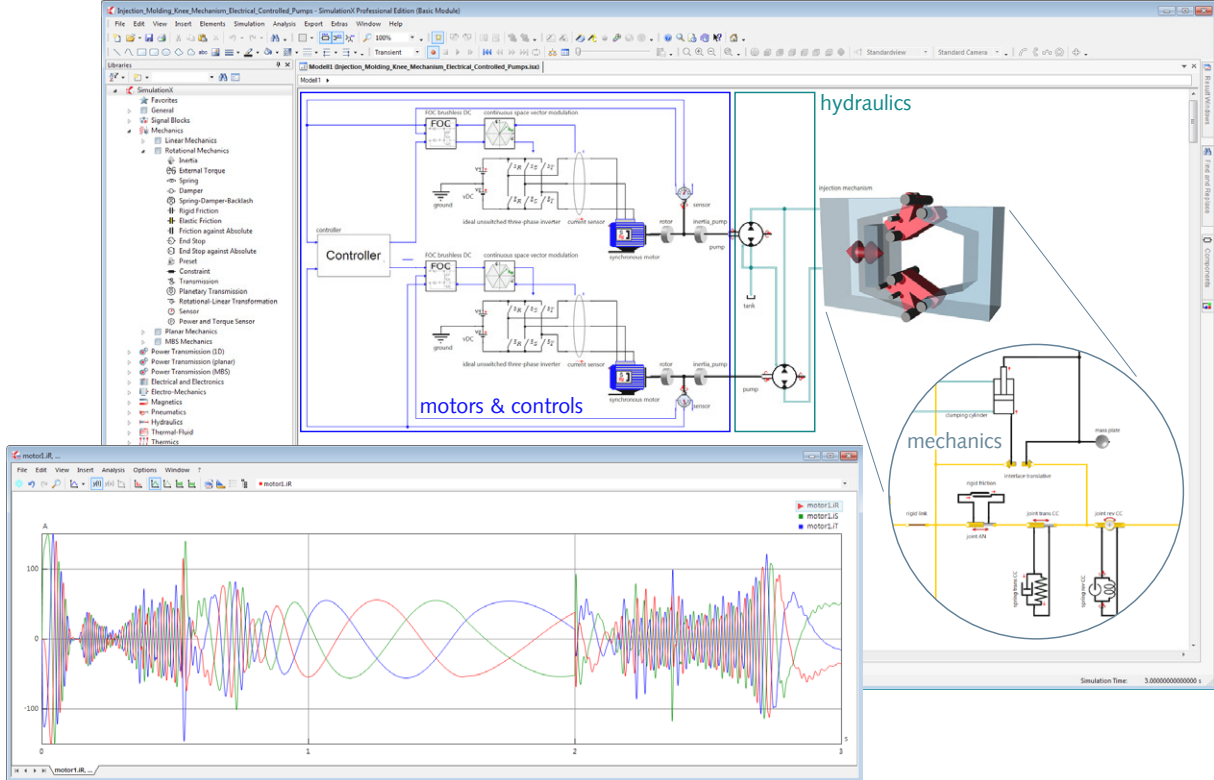
*Industrial Machinery*



Increase durability, operating times and processing speed of your machinery through SimulationX! Simulations help you master vibrations in the powertrain, identify energy saving potential and virtually commission your machine.

Be it electric, hydraulic or pneumatic drive systems and their controllers, or mechanical assemblies and thermal effects – you analyze all sub-systems and their interactions on a single software platform! Save time and money through reliable evaluations of the impact that new ideas and modifications have on a system's behavior even before a prototype is built. Develop and test the optimal controller algorithm efficiently without any risk in a virtual model.





## One step ahead through simulation

**SimulationX is an intuitive 1D to 3D software platform for physical modeling, simulation and analysis of mechatronic systems. Engineers all over the world trust this solution for designing and testing electrical, mechanical, thermal, fluidic and combined systems in a virtual environment.**

The highest level of precision and efficiency can be achieved through smooth interactions between all the components involved. Design the powertrain of your machine in a timely and cost-efficient manner with a simulation model. Reduce vibrations through perfectly adjusted damping. You increase your machine's safety and minimize wear and tear as well as acoustic emissions. The integration of several technologies helps you find the best solution to any challenge.

- **Simulation of machine components and systems**  
Large selection of libraries for analyzing motion, dynamic loads, thermal, electrical and magnetic influences
- **Multi-domain simulation** | Multiphysics models of mechatronic systems on one platform
- **Intuitive user interface and result visualization**  
Graphically interactive modeling, graphical and table-based result analysis
- **Optimization** | Efficient comparison of alternative design and controller layouts
- **Dependability studies** | Fault Tree Analysis (FTA) and Failure Mode and Effect Analysis (FMEA) based on the physical model structure
- **Support** | Modeling and simulation support from experienced engineers and software developers

Manufacturers and suppliers worldwide use SimulationX for designing and optimizing complex machines and plants.

e.g. ABB Automation, Bosch Rexroth, Ferromatik Milacron, Fuji Electric, Husky Injection Molding Systems, Karl Mayer Textilmaschinenfabrik, Mitsubishi Electric, Moog, Siemens Large Drives, Voith Paper

*„SimulationX is our number one software to simulate, analyze and optimize the operational performance of electromechanical drives in combination with applications.“*

Markus Kiele-Dunsche, Developer  
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