

INDUSTRIAL EQUIPMENT SINGLE SIMULATION SOURCE

Facilitate Product Expert Simulation

**DIGITALLY EXPLORE
PRODUCT BEHAVIOR
BEFORE MANUFACTURE**

Single Simulation Source for the Industrial Equipment industry accelerates detection and resolution of design issues.



Single Simulation Source provides simulation experts with advanced structural analysis and multiphysics simulation applications to help ensure proper product functioning before manufacture and start-up. With *Single Simulation Source* designers and analysis experts seamlessly collaborate to digitally explore more design alternatives without the need for expensive physical testing. This promotes first-time-right production and products that comply with customers' performance and safety requirements. As a result, *Single Simulation Source* mitigates the risk of project budget and cost overruns due to late-stage reworks

Single Simulation Source is available on premise and on cloud.



INDUSTRY CHALLENGES

- How to ensure proper functioning of industrial equipment early.
- How can we foresee downstream errors and make changes when it is the least costly?
- How to ensure products comply with customer requirements?
- How can analysts evaluate a greater number of design alternatives in a limited amount of time?
- How to facilitate innovation and improve the quality of design decisions?

SOLUTION HIGHLIGHTS

- Provides best-in-class Abaqus technology to solve linear, nonlinear, and multiphysics problems (Mechanical, Thermal, Fracture/Failure, Lifting, Fluid Flow, Acoustics, Friction, Electromagnetics, Linear/Non-Linear, Static/Transient, among others)
- Analysis of complex materials such as metal, rubbers, plastics, composites, pastes and polymers, soil, rock, concrete and ceramics.
- Enables simulation on local and remote hardware, usage of multiple cores in a distributed computing environment
- Allows engineering teams to Integrate a company's engineering and best practices into re-usable, deployable processes

SOLUTION VALUES

- Accelerates detection of design issues and their resolution.
- Evaluating more design alternatives faster improves product quality.
- Facilitates innovation and improves reliability of design decisions.
- Early virtual simulation promotes first-time-right manufacture for on-budget, on-time delivery.
- Through virtual simulation, products are easily customized to customer specifications.

SINGLE SOURCE FOR SPEED

Single Simulation Source is part of *Single Source For Speed*, a Dassault Systèmes Industry Solution Experience based on the 3DEXPERIENCE® platform that manages the end-to-end multi-disciplinary product development process by delivering a unified design experience to industrial equipment companies that need to address their complex manufacturing challenges. With *Single Source For Speed*, project stakeholders have social networking, design and business applications that facilitate decision-making, reduce costs and accelerate time to market.



Our 3DEXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the 3DEXPERIENCE® Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 190,000 customers of all sizes in all industries in more than 140 countries. For more information, visit www.3ds.com.



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