FESTO

FluidSIM

Design. Simulate. Learn.

Highlights

- Convenient creation of circuits and their interactive simulation
- Content tailored to the learning systems of Festo Didactic
- Various options for using FluidSim: web, Windows, and via the Festo LX digital learning portal
- Extensive component library
- Real and virtual measuring instruments
- Fault models for developing skills in troubleshooting and preventing errors

For more than 25 years, FluidSIM has been the world's leading simulation software for creating and simulating circuit diagrams in pneumatics, hydraulics, and electrical engineering. FluidSIM helps you acquire valuable technical skills by designing, simulating, and optimizing circuits. The simulation of control systems and processes has long been an industrial standard that ensures errors are prevented, and efficiency and quality are increased.

FluidSIM
FluidSIM has already received several awards, including the Expert System Innovation Award, the Worlddidac Award, and the German Education Software Award. With more than 300,000 installations worldwide, FluidSIM is one of the most successful software packages in mechatronics training.

Learning objectives of FluidSIM

- Creating circuit diagrams
- Identifying and preventing errors
- Simulating and optimizing circuit diagram solutions
- Understanding the solution development
- Observing the effects through real-time simulation

➔ Discover Festo

Additional information:

Product page
➤ www.festo.com/fluidsim

Contents and functionalities of FluidSIM

Component library
FluidSIM also has component libraries for pneumatics, hydraulics and electrical engineering that can be used either separately or in combination. The component libraries include hundreds of pneumatic, hydraulic, electrotechnical, electric and digital components, and are constantly expanded and revised.

Virtual and real measuring devices
FluidSIM provides real and virtual measuring devices for integration into circuits. Before the simulation, real measuring devices are installed, while virtual measuring devices are used during or before the simulation to display the simulated values of the circuit. Virtual measuring devices can be used in electrical, pneumatic, and hydraulic circuits and do not affect the circuits.

Fault models and diagnostics
FluidSIM has an innovative diagnostic concept, which enables the readily available fault models for various components to be compiled. Before a simulation, a specific error configuration can be selected; this then has an impact on the subsequent simulation. During this process, defective components can be identified with the help of virtual measuring devices and then virtually repaired.

User versions

FluidSIM can be accessed in different ways. Depending on the licence, users can choose between the Windows version, the web version or they can opt to integrate FluidSIM into our digital learning portal Festo LX.

Web version
The web version of FluidSIM is a device-independent user version. This means that it can be used anywhere, at any time and from any device (e.g. iPad). There currently is a limit to the number of important functions that are accessible with the web version. However, updates will be integrated regularly so that the functionalities of the web version and the Windows version will be almost identical in future.

Windows version
The Windows version includes all the functionalities and content of FluidSIM. Please note that this version can only be run on devices with a Windows operating system. Offline use is also possible with this version.

Integration in Festo LX
By integrating FluidSIM in Festo LX, simulation tasks can be created directly in Festo LX by the tutors and then processed and simulated by the students. Users no longer have to switch between the two programs.

Licensing

FluidSIM 365 and FluidSIM 6 are the two licence versions available for FluidSIM.

The FluidSIM 365 licence version gives users access to the web and Windows versions, as well as the FluidSIM functions within Festo LX. All updates and upgrades are included in the FluidSIM 365 licence.

A pure FluidSIM 6 licence includes all version 6 updates. Upgrades to a higher version are not included, nor is the use of the web version and the functions of FluidSIM within Festo LX possible.

→ Learn more about FluidSIM