



PNEUMATICS LIBRARY



- Modeling and simulation of pneumatic systems for system design, component sizing and control design.

Pneumatics Library allows you to verify and optimize the design of your complete pneumatic system from early design phases to production. Applications include automotive suspensions and brake systems, machine tools, and jackhammers. This includes in particular construction equipment and suppliers, commercial vehicle design and manufacturing companies and the aerospace industry.

Pneumatics Library provides components for the modeling of cylinders and motors, valves and nozzles, lumped volumes, lines and sensors. For stan-

dard applications these classes cover all needed components. If, however, specially designed components are used these can be easily modeled by modifying library components. All relevant effects are available as sub-models.

Users can connect components freely as they desire, which makes it is easy to realize non-standard configurations. The library models are based on extensive literature research, several years of experience and validation in research applications and industrial projects. The models can also be used for real-time and hardware-in-the-loop applications.

KEY FEATURES

- System and component design in the same tool
- Easily integrated into any application domain
- Well suited for control design
- Fast, real-time capable
- Wide range of standard components
- Customizable and extendable library by means of sub components

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