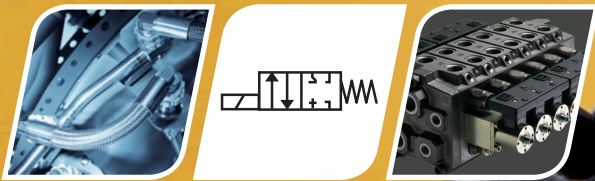




HYDRAULICS LIBRARY



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

Hydraulics Library is a powerful and easy-to-use tool for the modeling of hydraulics systems. Hydraulics Library can be used by all industry sectors that involve hydraulic components, including machine tools, transmissions, and actuation systems. Hydraulics Library is particularly useful for automotive OEM's and suppliers, commercial vehicle design and manufacturing companies, and the aerospace industry.

Hydraulics Library provides models for the simulation of pumps, motors and cylinders, restrictions and valves, hydraulic lines, lumped volumes, and

sensors. The modeling concept allows hydraulic components to be connected in an arbitrary way by drawing connection lines. No special components for splits or mergers are required. Users can connect components freely as they desire, so it is easy to realize non-standard configurations.

Unlike other commercial tools, Hydraulics Library is based on the open-standard Modelica language. Therefore, the available models can be easily duplicated and modified to fit user needs. The models can also be used for real-time and hardware-in-the-loop applications.

KEY FEATURES

- System and component design in a single tool
- Easily integrated into any application domain
- Ideal for control design
- Fast, real-time capable
- Handles incompressible and compressible oils, and cavitation
- Open and customizable

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MAPLESIM IS A TRADEMARK OF WATERLOO MAPLE INC.

Modelon

Hydraulics Library is developed and maintained by Modelon.
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