

DESIGN, SIMULATION AND ANIMATION SOFTWARE FOR THE STUDY OF HYDRAULICS AND ELECTRO-HYDRAULICS

Mod. SW-HYD/EV

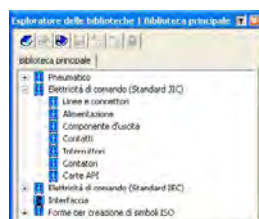
The software mod. SW-HYD/EV constitutes a very powerful educational tool to develop theoretical lessons and laboratory practical exercises. This software allows the user to design, simulate & animate circuits for the following technical fields:

- Hydraulics and Proportional Hydraulics
- Electrical control (standard IEC, JIC).
- Digital Electronics

It also allows:

- Creating Grafcet sequences
- Interfacing with the real circuit

SYMBOLS LIBRARY:



International symbols library for all the fields mentioned above, according to ISO, DIN, IEC, NEMA. The user is able to create partial or specific libraries to facilitate the design of new symbols. One important feature is the "Component Dimensioning" function, or the possibility to assign specific characteristics to the used symbols.

HYDRAULICS AND PROPORTIONAL HYDRAULICS

In accordance with ISO 1219-1 and ISO 1219-2 standards, the hydraulics and proportional hydraulics libraries provide all the necessary symbols to design a circuit. The library includes hundreds of symbols such as directional valves, pumps, motors, cylinders, etc.

ELECTRICAL CONTROL LOGICS

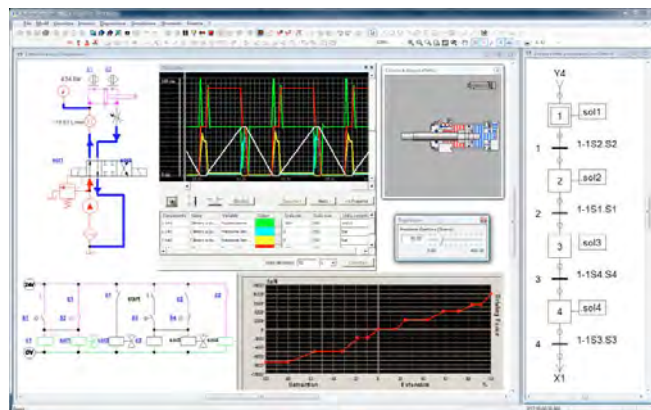
This library interacts with all the components of other libraries, and allows the creation of electrical control logic circuits. It is then possible to make electro-hydraulics projects. It includes push buttons, relays, coils, etc.

DIGITAL ELECTRONICS

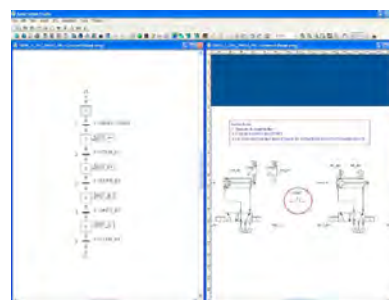
This library provides a wide range of standard logic components like inverters, logic ports, flip-flops, counters, scrolling registers, comparators, push buttons, LEDs, 7-segment displays, multiplexers, etc.

CUT-AWAY COMPONENTS ANIMATION

The 3D animated cut-away components show the internal operation of the devices. The animations are synchronized with the circuit simulation.



GRAF CET



This module allows the implementation of control structures according to IEC61131-3 standard. This universal method can be used together with other libraries to perform the control of complex pneumatics projects. The Grafcet programming technique helps to develop complex automatic sequences and to test them before transferring them to the PLC. The programs developed with this software can be exported in a format compatible with Siemens S7 PLCs and in XML format.

PC SYSTEM REQUIREMENTS

- N° 2 USB ports
- O.S: Windows 7

SUPPLIED WITH

THEORETICAL-EXPERIMENTAL HANDBOOK
WITH INTRODUCTION TO THE EXERCISES



OPTIONAL

I/O INTERFACE:
INTERFACE BOARD Mod. C2-IO/EV

