

# As requested by customers

## **Adjustable line thicknesses**

For presentations using a beamer or smart board, it is now possible to show all symbols and lines with a selectable line thickness – for more clarity during teaching.

## **Facility for manual adaptation of the terminal assignment list**

No rigid rules: you can decide for yourself how you want the terminal assignment list to look.

## **Simulation parameters "Cross section" and "Line length"**

Particularly in hydraulics, system performance is governed by line cross-section and length. FluidSIM® 5 calculates these values accurately to the millimetre!

## **Standard and expert modes**

Different FluidSIM® users have different requirements – students use a smaller range of functions than trainers, teachers or designers. There are now different menus for beginners and experts.

# Advantages for teachers and students

## **Homework at any time**

FluidSIM® can run anywhere. With a 12-user licence, 11 training course participants can log in and work at the same time, no matter where they are. The teacher running the course controls the allocation of licences to FluidSIM® users.

## **Direction-of-flow indicator**

The new standard specifies the method to be used for identifying equipment from bottom to top and from left to right. New direction-of-flow indicators clearly show the direction in which air or hydraulic fluid is flowing.

## **Detail zoom using the mouse wheel**

In large control systems and simulations, it can be useful to be able to zoom in here and there for a closer look. With the mouse wheel, it is now possible to zoom in on a detail during a simulation.

## **Switching language during simulation**

Every syllabus now includes technical instruction in English. This is why we have now made FluidSIM® multilingual – for no extra charge!

# FluidSIM® 5 – new features, same price!

Versions and scope	FluidSIM® Pneumatics	FluidSIM® Hydraulics	FluidSIM® Electrical engineering
	<ul style="list-style-type: none"> <li>– Pneumatics/ electropneumatics</li> <li>– Servopneumatics</li> <li>– Safety in pneumatics <b>(new)</b></li> <li>– Vacuum technology <b>(new)</b></li> <li>– Sensors in pneumatics <b>(new)</b></li> <li>– GRAFCET</li> <li>– Digital technology</li> </ul>	<ul style="list-style-type: none"> <li>– Hydraulics/ electrohydraulics</li> <li>– Closed-loop hydraulics/ proportional hydraulics</li> <li>– Mobile hydraulics <b>(new)</b></li> <li>– GRAFCET</li> <li>– Digital technology</li> </ul>	<ul style="list-style-type: none"> <li>– Electrical engineering (DC/AC)</li> <li>– Electronics (semiconductor technology)</li> <li>– Circuits with contacts</li> <li>– GRAFCET</li> <li>– Digital technology</li> </ul>

Licences	Order numbers		
<b>Single licence</b>	<b>Pneumatics</b>	<b>Hydraulics</b>	<b>Electrical engineering</b>
With online activation	8024357	8024358	8024359
With network dongle	8024360	8024361	8024362
<b>Update from version 3 or 4 to version 5</b>			
Single licence with online activation	8024363	8024364	–
Single licence with network dongle	8024365	8024366	–

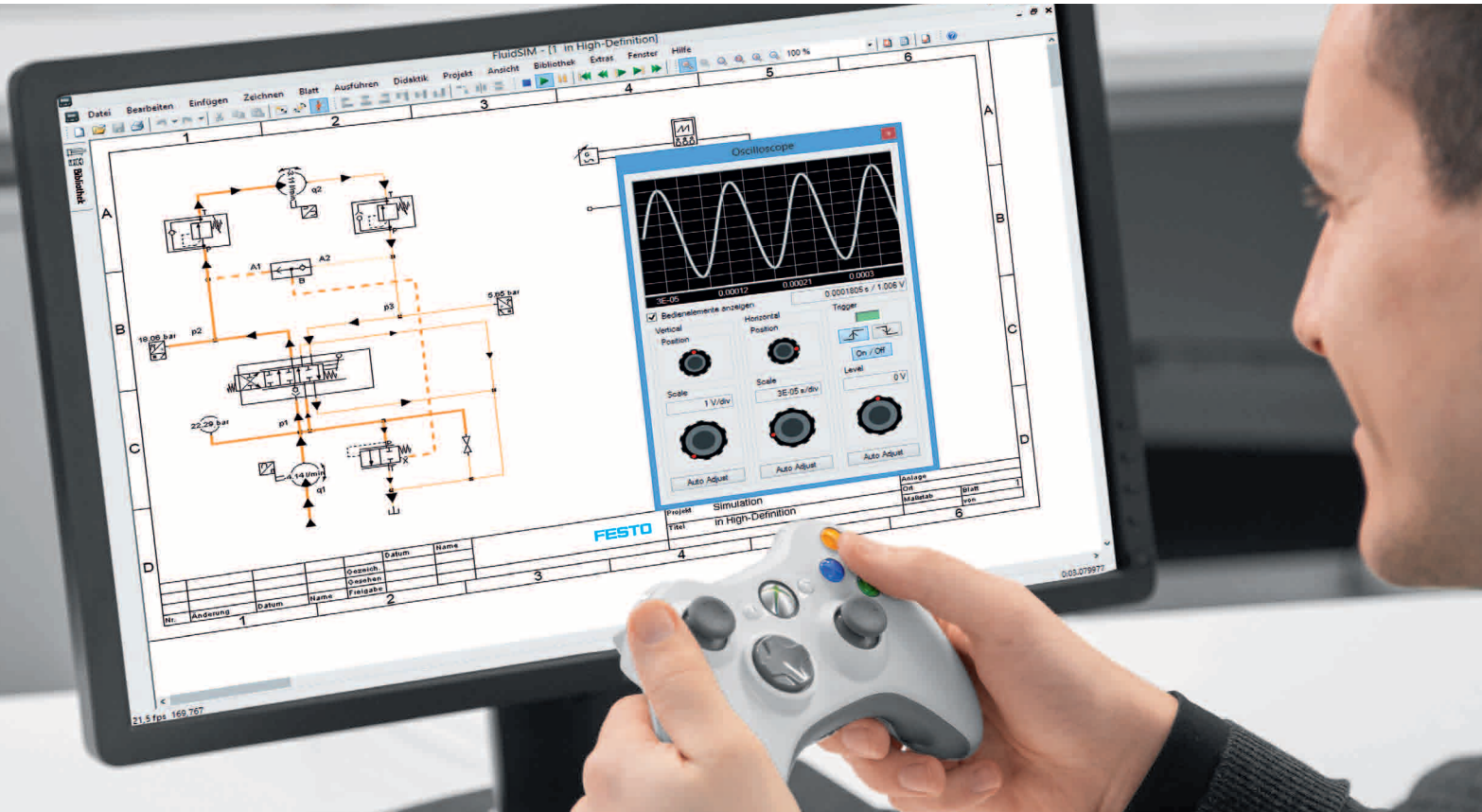
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# FluidSIM® 5

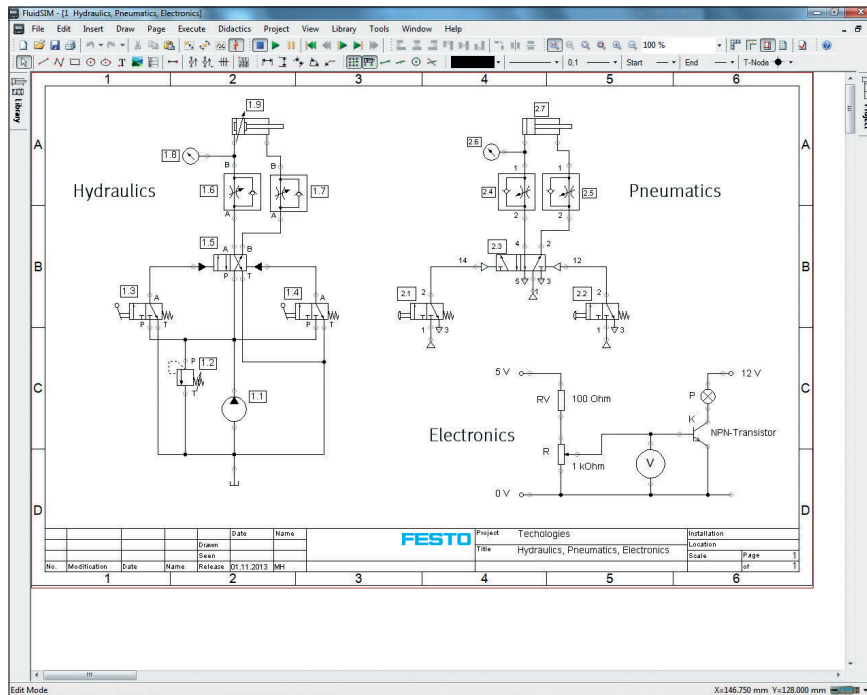
Faster, bigger and to be used everywhere!

**FESTO**



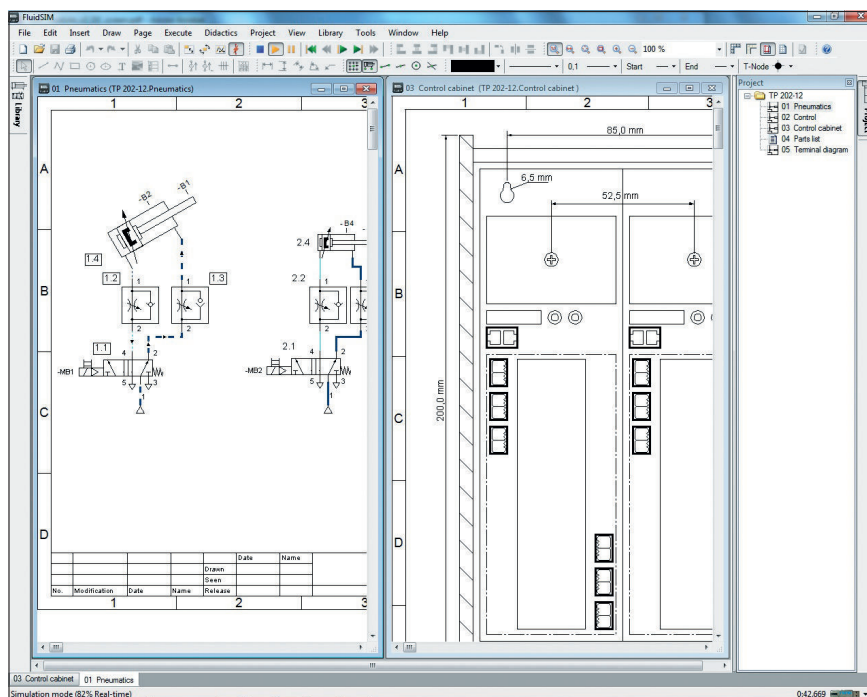
# A record-breaker: the new FluidSIM® 5

## One FluidSIM® that covers everything: P, H and E all in the same simulation



- New software concept: one FluidSIM® for all technologies and training packages
- Calculations and simulation for all technologies in the same program
- All circuits can be read in all versions
- Overall circuits can be represented on several sheets with cross references (P, H and E circuits)
- Backwards compatible – automatic transfer of circuits from previous software versions

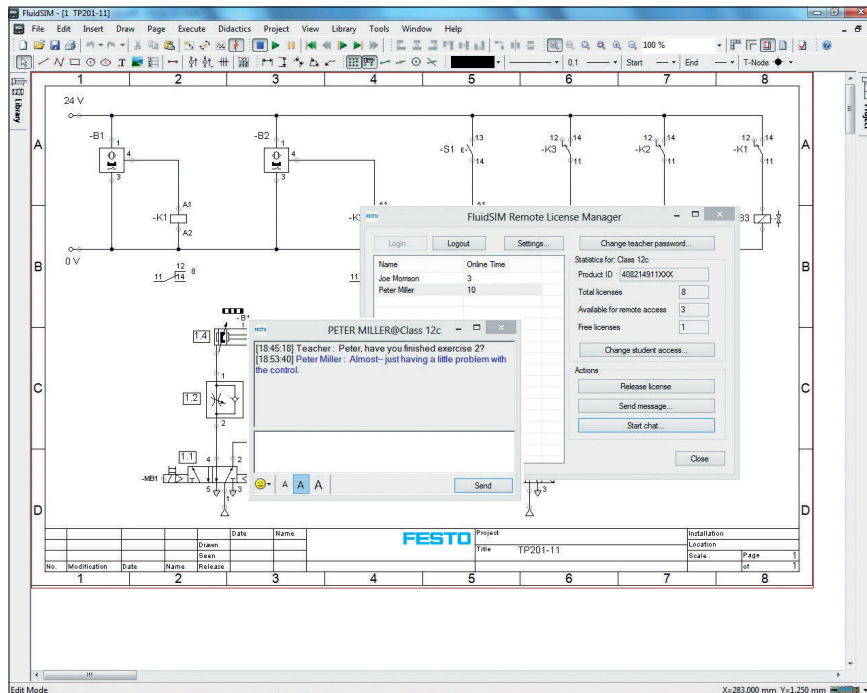
## Professional CAD system: projects, drawings, print-outs



- Projects, drawing sheets/frames
- Automatic linking of symbols, e.g. valve coils and solenoid valves
- Easy insertion of new symbols into existing connections
- Automatic generation of horizontal and vertical connection lines
- Variable drawing frames
- Stepless scaling and rotation
- Dimensioning functions, alignment lines

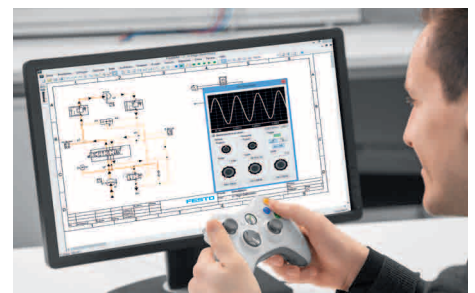
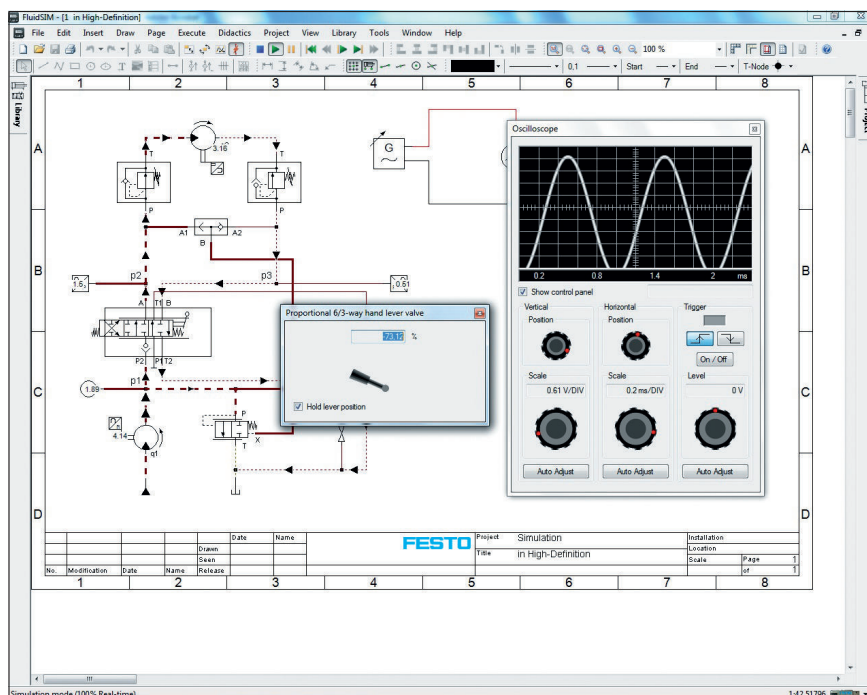
# Bigger, faster, more convenient, ...

## Complete conformity: fluid technology to DIN ISO 1219



- Connections labelled in accordance with new equipment identification rules: bottom to top and left to right
- 100% GRAFCET in accordance with standard!
- Clearly distinguished GRAFCET functions: documentation in accordance with standard, test and simulation, control of external processes with EasyPort®
- All symbols in accordance with DIN ISO 1219 or DIN EN 81346-2

## Simulation in high definition: resolution up to 100 kHz, control via joystick

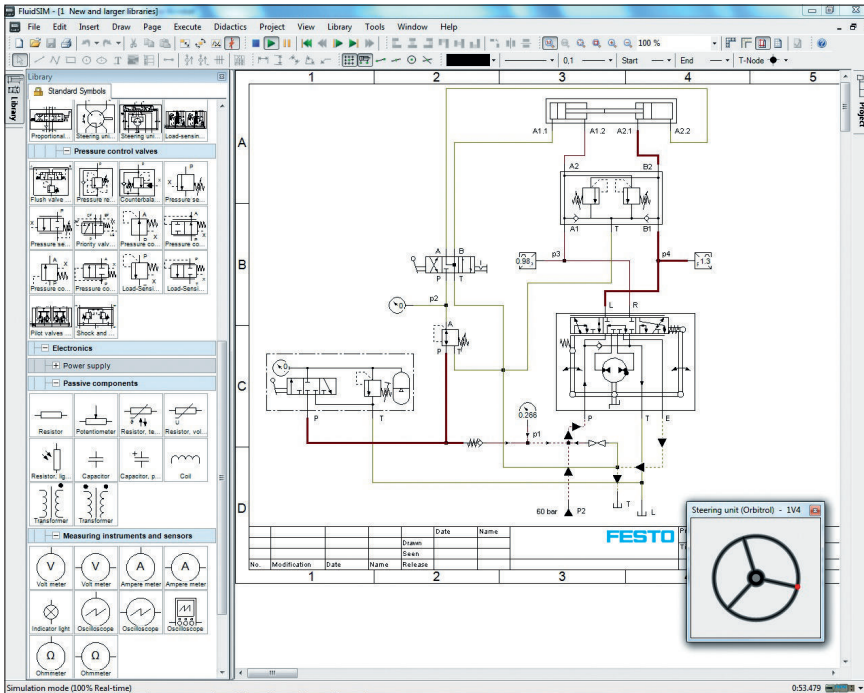


- Time resolution of simulation period down to 1 microsecond
- Detail zoom while program is running
- Forward, back, stop, continue at any time
- Virtual oscilloscope
- Frequencies of up to 100 kHz in electronics can be visualised
- Simultaneous simulation of all circuits in a project
- Simulated values can be shown while program is running
- Control and activation e.g. via external Xbox controller



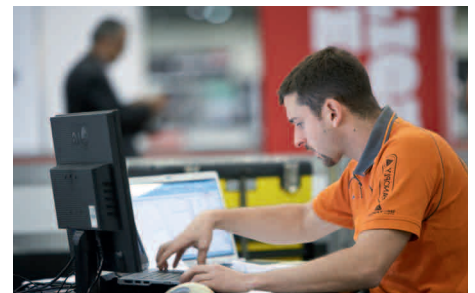
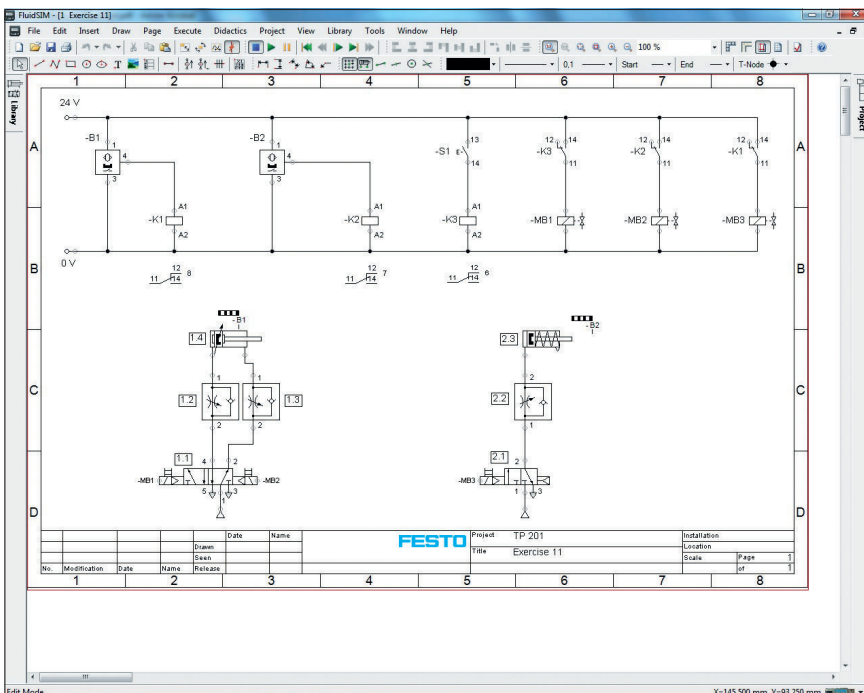
... and to be used wherever you are!

## New bigger libraries: all TPs up to date



- Libraries covering new subjects:
  - Drives/sensors in pneumatics
  - Vacuum technology
  - Safety in pneumatic systems
  - Mobile hydraulics
  - Electrical engineering, electronics
  - Circuits with contacts
- All libraries precisely matched to the training packages, with a wealth of exercises!

## Flexible licence management: one licence for multiple users



- Issue and management of licences via Internet – for trainers and students:
  - Free allocation of licences
  - Learning group management
  - Integrated chat function
  - Free choice of training location – in school or at home

Requirement: valid network licence held by training provider.