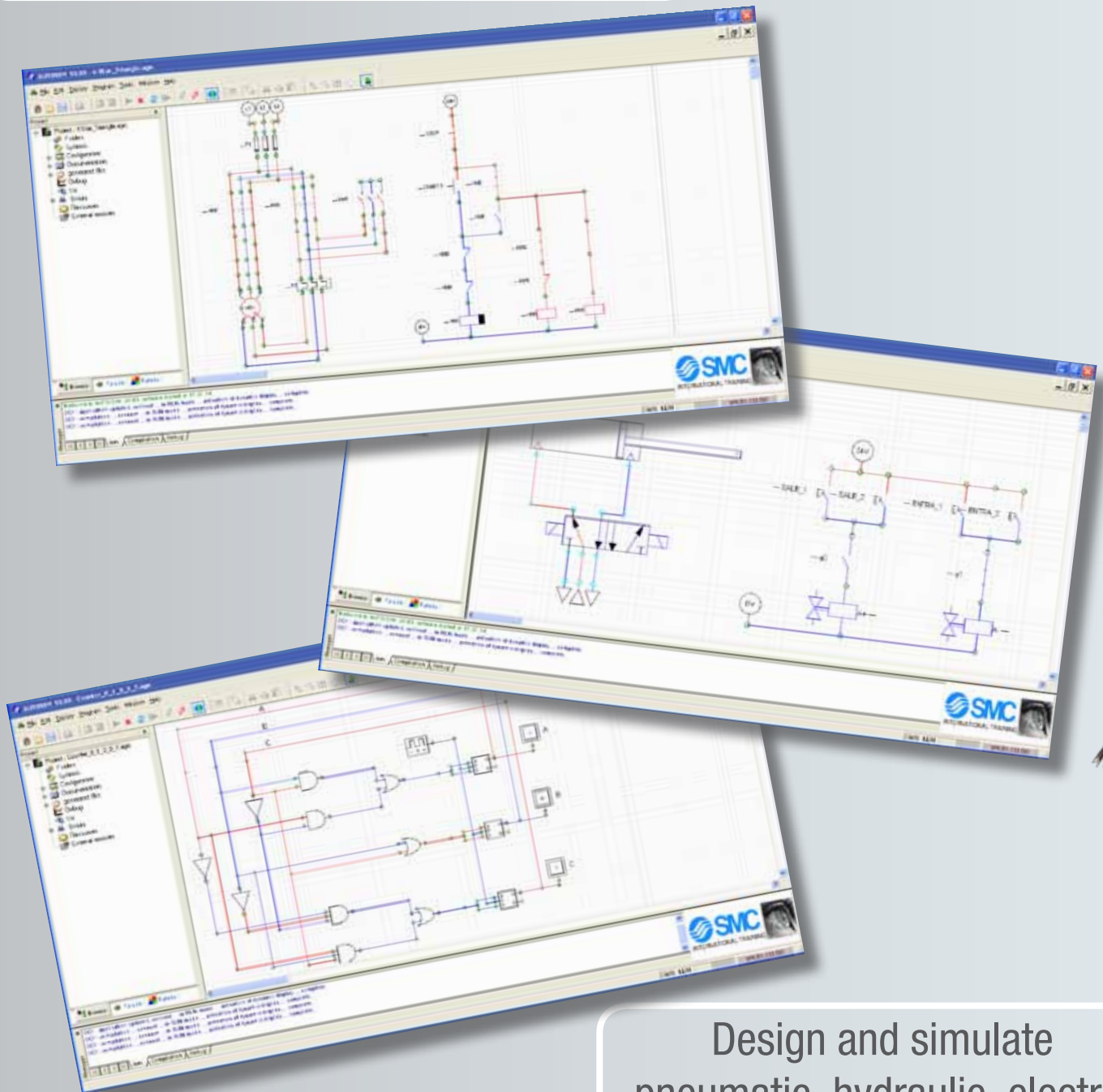


# autoSIM-200

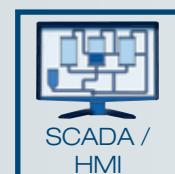
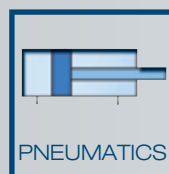
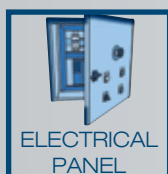
Automation Simulator

The best all-round automation simulator



Design and simulate  
pneumatic, hydraulic, electric  
and electronic circuits

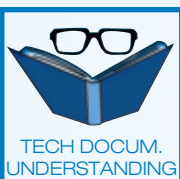
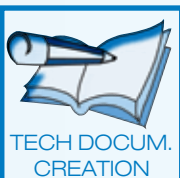
In the following TECHNOLOGIES...



Develop the SKILLS...

Simulate, supervise and control  
our 3D applications from the  
autoSIM environment

3D





## ■ autoSIM-200 - Automation Simulator

autoSIM-200 is a software for training in automation technologies that allows the user to try his / her programs on a virtual system before applying them to a physical system.

It represents the ideal complement to training equipment which, in turn, enables a more efficient use of the laboratory. It can also be used independently of actual training systems.

autoSIM-200 provides dynamic design and simulation plus control of 2D and 3D virtual machines (predefined by the user or developed by SMC International Training).

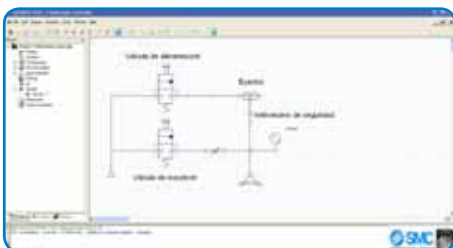


autoSIM-200 includes a virtual PLC to control the circuits / models under simulation and allows communication with our range of training systems.

## Design and simulation



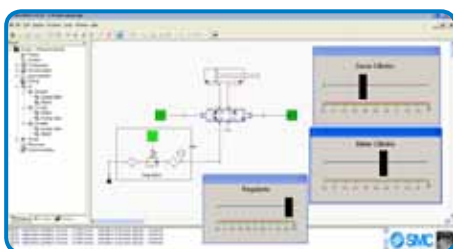
With autoSIM-200, it is possible to carry out dynamic, multi-colour simulations using pneumatic, electropneumatic, hydraulic, electrohydraulic, electrical and electronic circuits. It is also possible to carry out mathematical models of systems and acquire and process electrical signals (instrumentation).



Library component categories are displayed by means of drop-down menus, showing individual standardised symbols. It includes conventional and proportional pneumatic and hydraulic valves.

autoSIM-200 can inter-connect different blocks (Virtual PLC, 2D, 3D models, etc.).

## Programming



autoSIM-200 can be used to create Grafcet diagrams, Ladder, Logigramme (logic gates) and function blocks with structured text. By running the simulation, it is possible to monitor and control the application step by step.

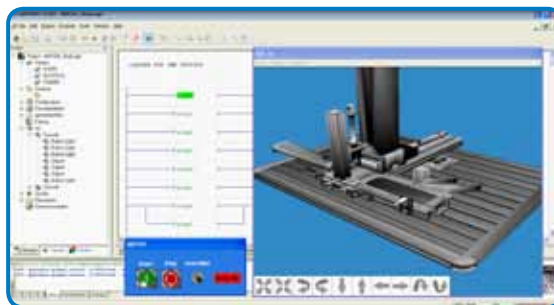
It can also generate symbol tables to address variables and create timers, counters, etc.

## Monitoring and control

Using autoSIM-200, it is possible to monitor and control 3D processes. Using a data acquisition card (SAI2443), physical inputs and outputs can be supervised and controlled.

This software can import three dimensional models from 3D Studio and Solidworks. SMC International Training has product applications from the range, ready to run with the system (see 3D applications section).

Communication with real, physical equipment is possible through the OPC server and I/O cards.



I/O card



• SAI2443 USB - autoSIM-200 Interface

autoSIM-200 comes in 2 versions:

- **autoSIM-200**

This is the standard version. An I/O card or an OPC server is used for communication.

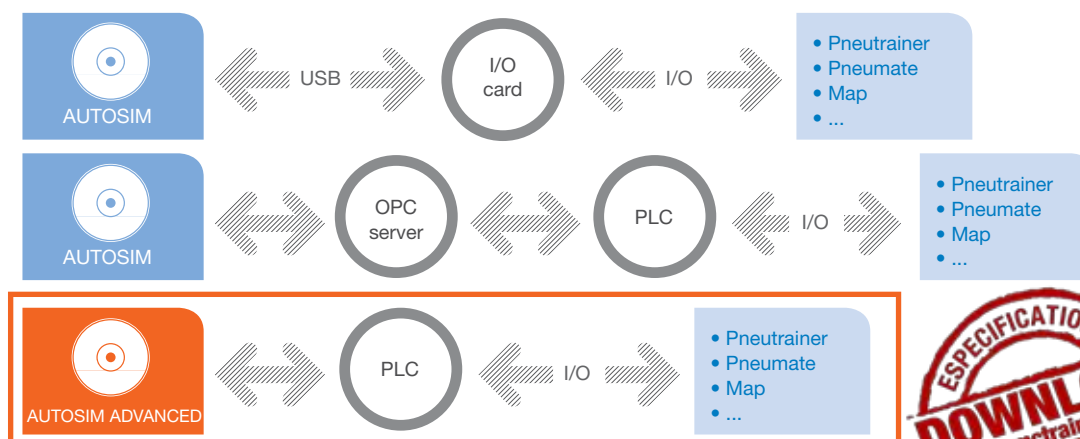
- **autoSIM-200 ADVANCED**

Includes all the functional features of autoSIM-200 along with post-processors that can transfer and monitor the program generated in the simulation to the following brands of PLC: Siemens, Omron, Allen Bradley, Schneider and Mitsubishi.

autoSIM-200		autoSIM-200 ADVANCED	
• SAI2252	AutoSIM-200, 1 educational licence	• SAI2352	AutoSIM-200 ADVANCED, 1 educational licence
• SAI2253	AutoSIM-200, 8 educational licences	• SAI2353	AutoSIM-200 ADVANCED, 8 educational licences
• SAI2254	AutoSIM-200, 16 educational licences	• SAI2354	AutoSIM-200 ADVANCED, 16 educational licences

\*Other packages on request.

## Communications







## ■ autoSIM-200 - 3D applications

autoSIM-200 allows the user to simulate, control and supervise actual automated processes from a virtual environment.

SMC International Training has a series of 3D applications from real equipment, ready to be run in the system. autoSIM-200 or autoSIM-200 ADVANCED is required. Each application includes the following features:

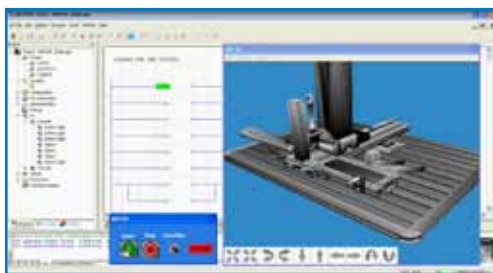
- Compatibility with simulation software in automation applications.
- Independent window with 3D model, keypad and control commands.
- Access to the table of symbols for the generated program.
- Access to the libraries and to the simulation panel for components in pneumatics, electro-pneumatics, hydraulics, electro-hydraulics and electrics.



The available applications are as follows:



## MAP-200 3D applications



3D applications included*	Reference	Number of licences
MAP-201, MAP-202, MAP-203, MAP-204, MAP-207	SAI2527	1
	SAI2528	8
	SAI2529	16

## AUTOMATE-200 3D applications

3D applications included*	Reference	Number of licences
AUTOMATE-200A	SAI2530	1
	SAI2531	8
	SAI2532	16



\*autoSIM-200 or autoSIM-200 ADVANCED is required.

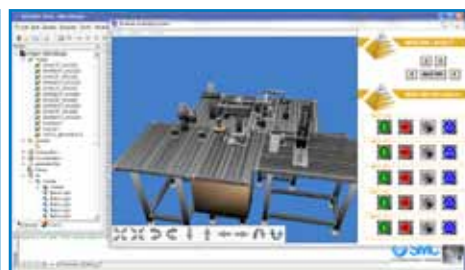
## IPC-200 3D applications



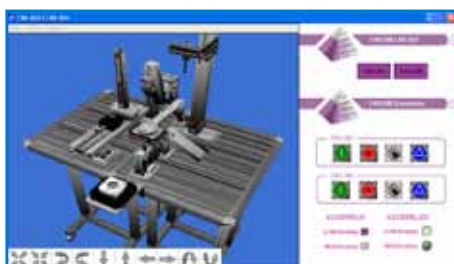
3D applications included*	Reference	Number of licences
IPC-201C	SAI2533	1
	SAI2534	8
	SAI2535	16

## MAS-200 3D applications

3D applications included*	Reference	Number of licences
MAS-201, MAS-202, MAS-203, MAS-204, MAS-205	SAI2547	1
	SAI2548	8
	SAI2549	16



## FAS-200 3D applications



3D applications included*	Reference	Number of licences
FAS-201, FAS-202, FAS-203, FAS-204, FAS-205, FAS-206, FAS-207, FAS-208, FAS-209, FAS-210, FAS-211, FAS-212, FAS-213, FAS-214, FAS-215, FAS-216, FAS-220	SAI2536	1
	SAI2537	8
	SAI2538	16

## FMS-200 3D applications

3D applications included*	Reference	Number of licences
FMS-201, FMS-202, FMS-203, FMS-204, FMS-205, FMS-206, FMS-207, FMS-208	SAI2523	1
	SAI2524	8
	SAI2525	16



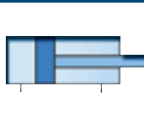












\*autoSIM-200 or autoSIM-200 ADVANCED is required.



## ■ autoSIM-200 - With this system you could...

autoSIM-200 comes up with different practical activities targeting skills in the technologies featuring in the table (below).

TECHNOLOGIES							
							
SKILLS							
							
							
							
							
							
							

- This shows how the autoSIM-200 is suitable to develop skills in the specific technology.
- This shows that autoSIM-200 can help develop skills in the specific technology even though there are other more appropriate products in the range.



## eLEARNING-200

Find out more about the theory behind the technologies developed in autoSIM-200 with our eLEARNING-200 courses.

### RELATED eLEARNING-200 COURSES

Introduction to industrial automation (SMC-100)

Principles of pneumatics (SMC-101)

Introduction to electricity (SMC-102)

DC electricity (SMC-103)

AC electricity (SMC-104)

Solid state (SMC-105)

Introduction to wiring (SMC-106)

Sensors technology (SMC-108)

Programmable controllers (SMC-109)

Process controls (SMC-110)

Hydraulics / electrohydraulics (SMC-111)

*\*See eLEARNING-200 chapter for more information*

## ■ autoSIM-200 - Configuration

### • Steps to follow

- 1.- Choose your licence type (autoSIM-200, autoSIM-200 ADVANCED).
- 2.- Select the number of licences.
- 3.- Add any chosen options (applications with number of licences).



## ■ autoSIM-200 - PC requirements

PC compatible computer with Windows XP, Windows Vista or Windows 7.  
512MB free memory, graphic board (1024 x 768 x 65536 colour min.)