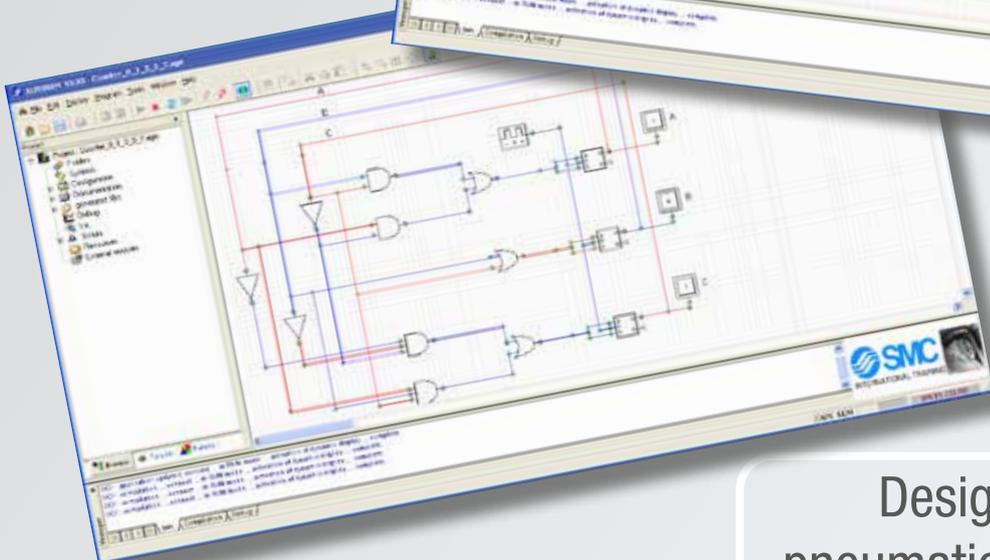
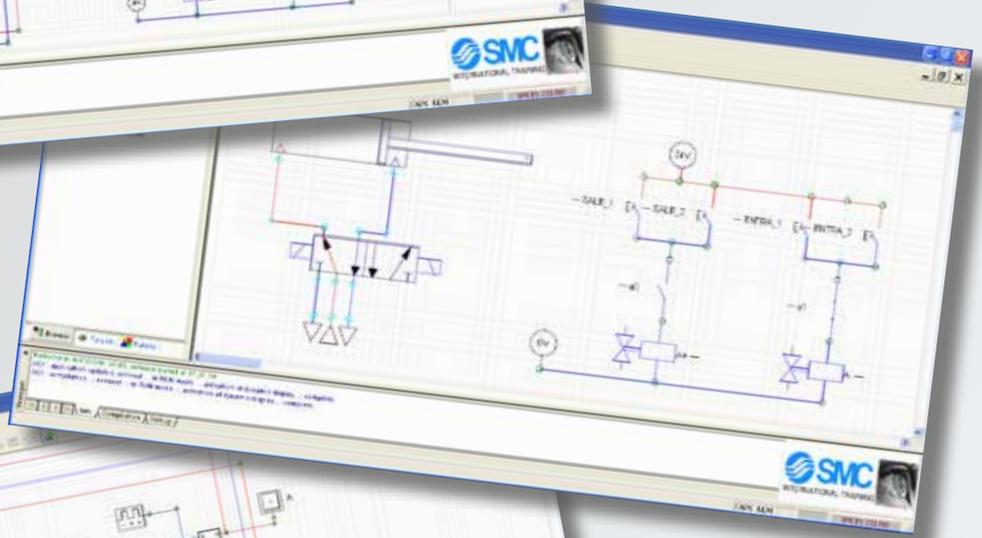
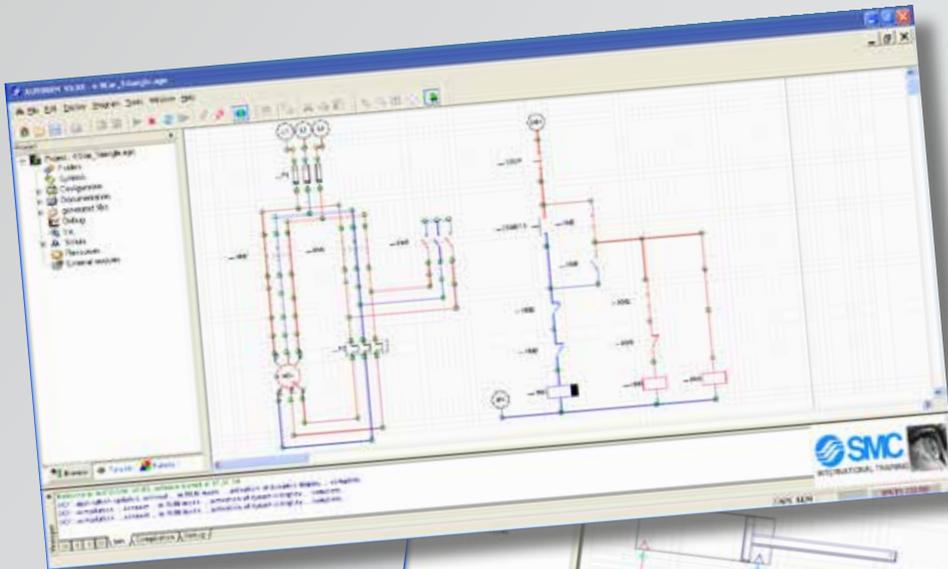


autoSIM-200

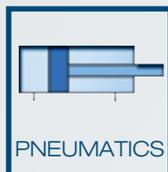
Automation Simulator

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



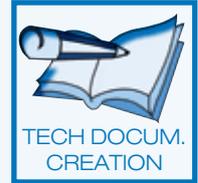
ANALYSIS



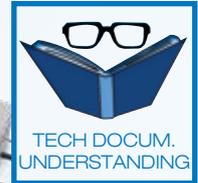
TROUBLESHOOTING



DESIGNING



TECH DOCUM.
CREATION



TECH DOCUM.
UNDERSTANDING



OPERATION



PROGRAMMING

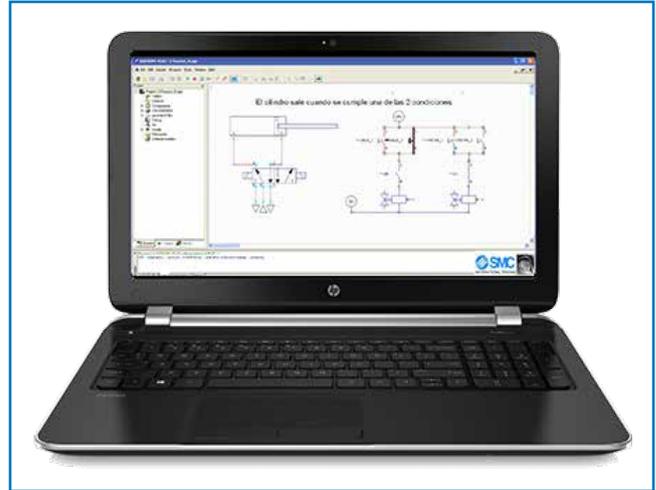


■ autoSIM-200 - Automation Simulator

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.

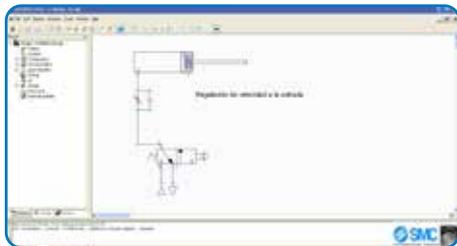
It represents the ideal complement to training equipment which, in turn, enables a more efficient use of the laboratory. It can also be used independently of actual training systems.

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).

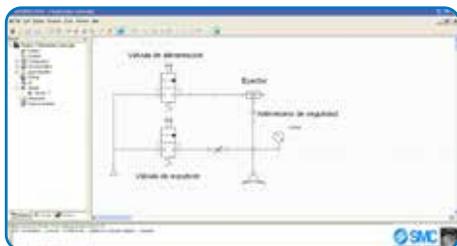


autoSIM-200 includes a virtual PLC to control the circuits / models under simulation and allows communication with our range of training systems.

Design and simulation



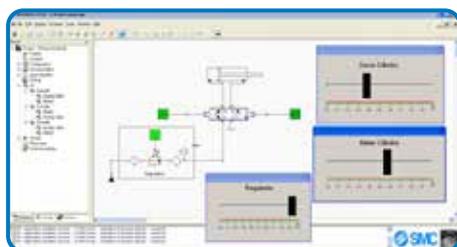
With autoSIM-200, it is possible to carry out dynamic, multi-colour simulations using pneumatic, electropneumatic, hydraulic, electrohydraulic, electrical and electronic circuits. It is also possible to carry out mathematical models of systems and acquire and process electrical signals (instrumentation).



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



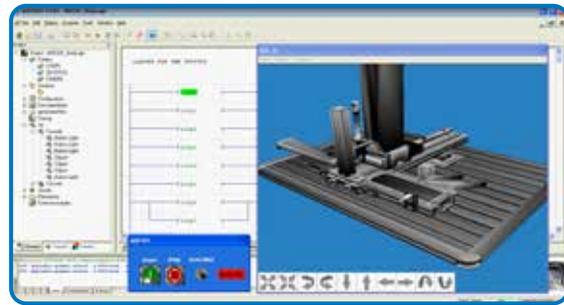
autoSIM-200 can be used to create Grafcet diagrams, Ladder, Logigramme (logic gates) and function blocks with structured text. By running the simulation, it is possible to monitor and control the application step by step.

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).



I/O card



• SAI2443 USB - autoSIM-200 Interface

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

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 PERMANENT (Electronic dispatch) | | autoSIM-200 PERMANENT (Physical dispatch) | | autoSIM-200 ONE YEAR (Electronic dispatch) | |
|--|--|--|-------------------------------------|---|--|
| • SIM001-00-ABA | autoSIM-200, 1 educational licence | • SIM001-00-ABB | autoSIM-200, 1 educational licence | • SIM001-00-AAA | autoSIM-200, 1 educational licence |
| • SIM008-00-ABA | autoSIM-200, 8 educational licence | • SIM008-00-ABB | autoSIM-200, 8 educational licence | • SIM008-00-AAA | autoSIM-200, 8 educational licence |
| • SIM016-00-ABA | autoSIM-200, 16 educational licence | • SIM016-00-ABB | autoSIM-200, 16 educational licence | • SIM016-00-AAA | autoSIM-200, 16 educational licence |

*Other packages on request.

*The valid time of the autoSIM-200 ADVANCED PERMANENT licences is unlimited.

*The valid time of the autoSIM-200 ADVANCED - ONE YEAR licences is 1 year.

- **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 ADVANCED PERMANENT (Electronic dispatch) | | autoSIM-200 ADVANCED PERMANENT (Physical dispatch) | |
|---|---|---|--|
| • SIM001-00-BBA | autoSIM-200 ADVANCED, 1 educational licence | • SIM001-00-BBB | autoSIM-200 ADVANCED, 1 educational licence |
| • SIM008-00-BBA | autoSIM-200 ADVANCED, 8 educational licence | • SIM008-00-BBB | autoSIM-200 ADVANCED, 8 educational licence |
| • SIM016-00-BBA | autoSIM-200 ADVANCED, 16 educational licence | • SIM016-00-BBB | autoSIM-200 ADVANCED, 16 educational licence |

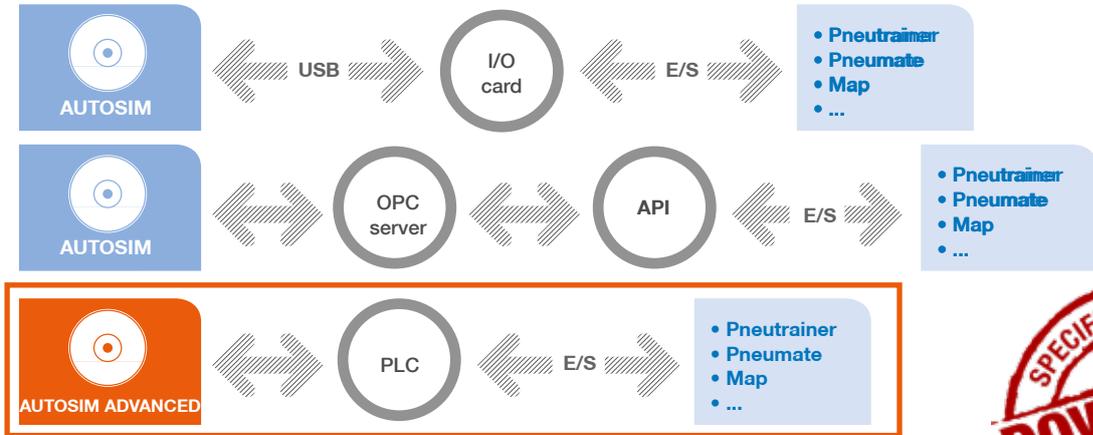
*Other packages on request.

*The valid time of the autoSIM-200 ADVANCED PERMANENT licences is unlimited.

*The valid time of the autoSIM-200 ADVANCED - ONE YEAR licences is 1 year.



Communications



■ autoSIM-200 - 3D applications

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

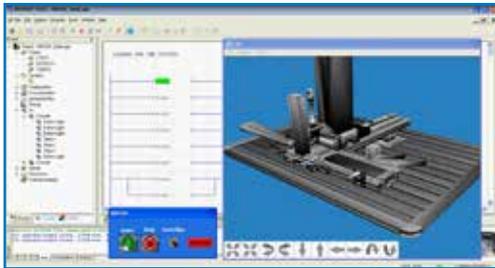
SMC International Training has a series of 3D applications from real equipment, ready to be run in the system. autoSIM-200 or autoSIM-200 ADVANCED is required. Each application includes the following features:

- 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**

MAP-201, MAP-202,
MAP-203, MAP-204, MAP-207

| Number of licences* | 1 YEAR (Electronic dispatch) | PERMANENT (Electronic dispatch) | PERMANENT (Physical dispatch) |
|---------------------|---------------------------------|------------------------------------|----------------------------------|
| 1 | S3D001-00-AAA | S3D001-00-ABA | S3D001-00-ABB |
| 8 | S3D008-00-AAA | S3D008-00-ABA | S3D008-00-ABB |
| 16 | S3D016-00-AAA | S3D016-00-ABA | S3D016-00-ABB |

AUTOMATE-200 3D applications

3D applications included**

AUTOMATE-200A



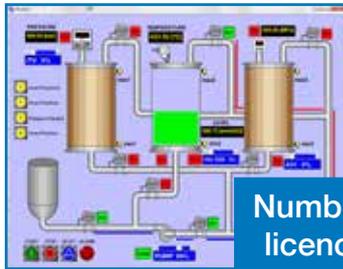
| Number of licences* | 1 YEAR (Electronic dispatch) | PERMANENT (Electronic dispatch) | PERMANENT (Physical dispatch) |
|---------------------|---------------------------------|------------------------------------|----------------------------------|
| 1 | S3D001-00-BAA | S3D001-00-BBA | S3D001-00-BBB |
| 8 | S3D008-00-BAA | S3D008-00-BBA | S3D008-00-BBB |
| 16 | S3D016-00-BAA | S3D016-00-BBA | S3D016-00-BBB |

* Other quantities, please consult.

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



IPC-200 3D applications



3D applications included**
IPC-201C

| Number of licences* | 1 YEAR (Electronic dispatch) | PERMANENT (Electronic dispatch) | PERMANENT (Physical dispatch) |
|---------------------|------------------------------|---------------------------------|-------------------------------|
| 1 | S3D001-00-CAA | S3D001-00-CBA | S3D001-00-CBB |
| 8 | S3D008-00-CAA | S3D008-00-CBA | S3D008-00-CBB |
| 16 | S3D016-00-CAA | S3D016-00-CBA | S3D016-00-CBB |

MAS-200 3D applications

3D applications included**
MAS-201, MAS-202, MAS-203, MAS-204, MAS-205



| Number of licences* | 1 YEAR (Electronic dispatch) | PERMANENT (Electronic dispatch) | PERMANENT (Physical dispatch) |
|---------------------|------------------------------|---------------------------------|-------------------------------|
| 1 | S3D001-00-DAA | S3D001-00-DBA | S3D001-00-DBB |
| 8 | S3D008-00-DAA | S3D008-00-DBA | S3D008-00-DBB |
| 16 | S3D016-00-DAA | S3D016-00-DBA | S3D016-00-DBB |

FAS-200 3D applications



3D applications included**
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

| Number of licences* | 1 YEAR (Electronic dispatch) | PERMANENT (Electronic dispatch) | PERMANENT (Physical dispatch) |
|---------------------|------------------------------|---------------------------------|-------------------------------|
| 1 | S3D001-00-EAA | S3D001-00-EBA | S3D001-00-EBB |
| 8 | S3D008-00-EAA | S3D008-00-EBA | S3D008-00-EBB |
| 16 | S3D016-00-EAA | S3D016-00-EBA | S3D016-00-EBB |

* Other quantities, please consult.

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

FAS-200 SPECIAL EDITION - INDUSTRY 4.0 3D applications

3D applications included**

FAS-200 SPECIAL EDITION - INDUSTRY 4.0



| Number of licences* | 1 YEAR (Electronic dispatch) | PERMANENT (Electronic dispatch) | PERMANENT (Physical dispatch) |
|---------------------|------------------------------|---------------------------------|-------------------------------|
| 1 | S3D001-00-FAA | S3D001-00-FBA | S3D001-00-FBB |
| 8 | S3D008-00-FAA | S3D008-00-FBA | S3D008-00-FBB |
| 16 | S3D016-00-FAA | S3D016-00-FBA | S3D016-00-FBB |

FMS-200 3D applications

3D applications included**

FMS-201, FMS-202, FMS-203, FMS-204, FMS-205, FMS-206, FMS-207, FMS-208



| Number of licences* | 1 YEAR (Electronic dispatch) | PERMANENT (Electronic dispatch) | PERMANENT (Physical dispatch) |
|---------------------|------------------------------|---------------------------------|-------------------------------|
| 1 | S3D001-00-GAA | S3D001-00-GBA | S3D001-00-GBB |
| 8 | S3D008-00-GAA | S3D008-00-GBA | S3D008-00-GBB |
| 16 | S3D016-00-GAA | S3D016-00-GBA | S3D016-00-GBB |

FMS-200 SPECIAL EDITION - INDUSTRY 4.0 3D applications

3D applications included**

FMS-200 SPECIAL EDITION - INDUSTRY 4.0



| Number of licences* | 1 YEAR (Electronic dispatch) | PERMANENT (Electronic dispatch) | PERMANENT (Physical dispatch) |
|---------------------|------------------------------|---------------------------------|-------------------------------|
| 1 | S3D001-00-HAA | S3D001-00-HBA | S3D001-00-HBB |
| 8 | S3D008-00-HAA | S3D008-00-HBA | S3D008-00-HBB |
| 16 | S3D016-00-HAA | S3D016-00-HBA | S3D016-00-HBB |

* Other quantities, please consult.

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

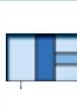


■ autoSIM-200 - With this system you could...

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

TECHNOLOGIES

SKILLS

| |  HYDRAULICS |  ELECTRICAL PANEL |  PNEUMATICS |  VACUUM |  PROGRAMM. CONTROLLERS |  SCADA / HMI |
|--|---|---|---|--|--|--|
|  ANALYSIS | ■ | ■ | ■ | ■ | ■ | ■ |
|  TROUBLESHOOT. | ■ | ■ | ■ | ■ | ■ | ■ |
|  DESIGNING | ■ | ■ | ■ | ■ | ■ | ■ |
|  TECH DOCUM. CREATION | ■ | ■ | ■ | ■ | ■ | ■ |
|  TECH DOCUM. UNDERSTANDING | ■ | ■ | ■ | ■ | ■ | ■ |
|  OPERATION | ■ | ■ | ■ | ■ | ■ | ■ |
|  PROGRAMMING | ■ | ■ | ■ | ■ | ■ | ■ |

- 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, Windows 7 or Window 10.
512MB free memory, graphic board (1024 x 768 x 65536 colour min.)