

SPAC[®]
AUTOMAZIONE

Electrical CAD for the design
of Industrial Automation Plants and Special Machines



Software for the design and auto-documentation
of electrical drawings



AUTOMOTIVE



ELECTRICAL PANELS



PACKAGING MACHINES



FOOD PROCESSING



MEDICAL INDUSTRY



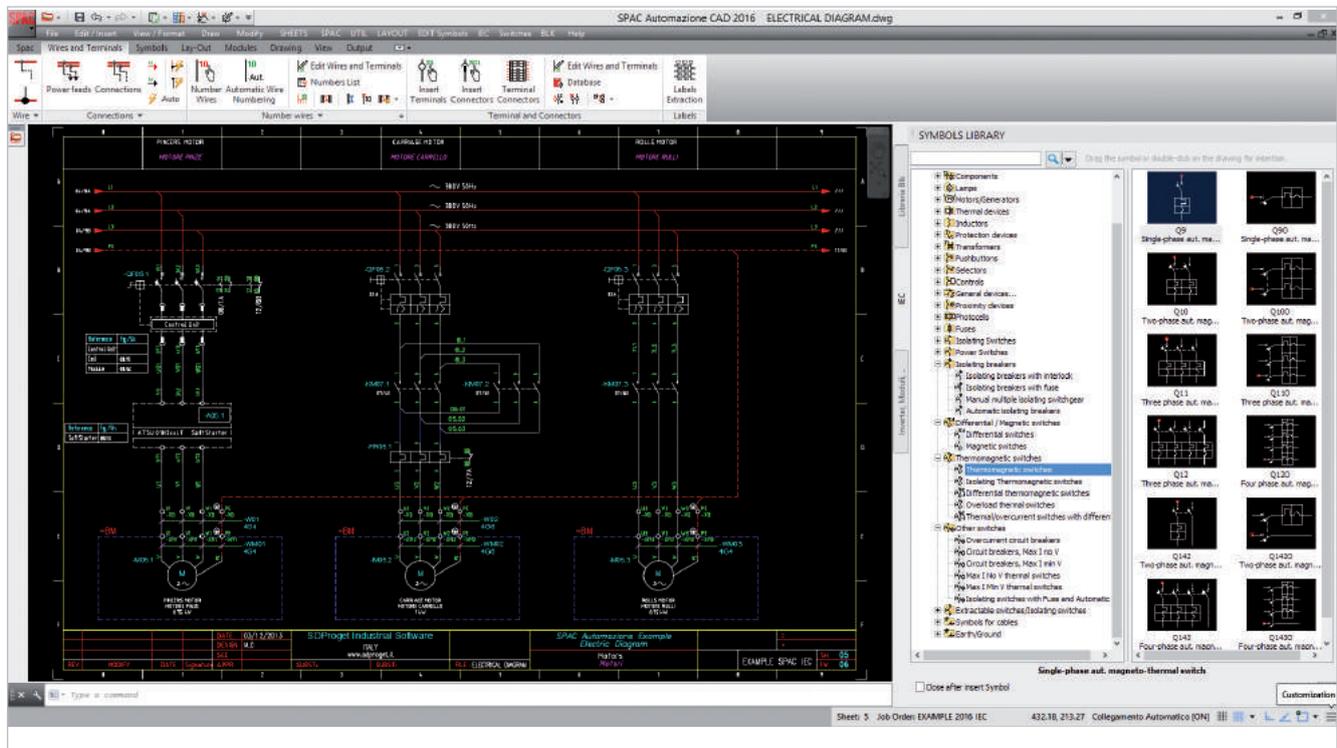
TRANSPORTATION MEANS



ENERGY - OIL & GAS



MAINTENANCE



SPAC Automazione

The Electrical CAD used by over 12.000 customers with more than 35.000 installations

Professional

SPAC Automazione® is a professional and flexible design Software that guarantees the maximum productivity while drawing electrical systems and industrial automation plants by means of the automatic generation of the project's documentation and technical reports.

Based on international standards

SPAC Automazione® uses the most popular drawing standard worldwide.

The Software is entirely developed in DWG standard, providing the schemes in DWG and DXF native formats.

The project's documentation can also be converted to PDF format with dynamic features that allow the schemes navigation.

SPAC Automazione® is considered a standard for the electrical design in Italy since 1988.

Intuitive and user friendly

SPAC Automazione® is a simple and efficient drawing system created by electrical scheme designers for special machines and electrical systems designers .

A powerful tool to improve productivity

SPAC Automazione® is a powerful tool that automates the drafting, processing and documentation of electrical and pneumatic drawings. Symbols compliant with European and International graphical normative pose no limitations for the execution of projects abroad. Once the electrical scheme is designed, the Software executes automatically all the control processes and creates the documentation.

Flexible and customizable

SPAC Automazione® can be customized and programmed to create the schemes by automated processes.

End-Users can customize the design environment of SPAC Automazione® according to their needs.

The Machinery Configurator feature allows the automatic creation of the electrical schemes and the documentation of a standard complex plant by selecting the optional parts / elements required by a specific customer.

REASONS FOR CHOOSING THE MOST POPULAR ELECTRICAL CAD IN ITALY

SPAC Automazione® is a professional, efficient and modular Software in continuous evolution. Each new version includes a set of innovations and features that increase the program's performance.

✓ **Modular and flexible. A system that adapts to your needs**

SPAC Automazione® is a modular design system that consents different configurations according to the specific characteristics of the project and the designers' activities. The modularity allows an investment tailored to the project's characteristics.

✓ **Productivity at the highest level. The added-value**

SPAC Automazione® automates the engineering processing of the electrical drawings, increasing productivity and quality while reducing production costs. This translates into high productivity by reducing the time required to draw and document projects with a minimum possibility to make errors.

✓ **Integration and data exchange. Software interfaces**

SPAC Automazione® is an open system that can dialogue with third-party applications:

- Information exchange with label printing Software for the marking of components, terminals and wires
- Interface with documentation management Software as PDM and PLM
- Connection between electrical and fluidic functional schemes
- Data Exchange with Microsoft Office®
- Bidirectional dialogue with PLC management systems and P&ID systems (EsaPro)

✓ **DWG graphical input. A universal standard**

SPAC Automazione Software is entirely developed in DWG standard, ensuring the international sharing of projects as required in a collaborative environment between different departments and professionals.

✓ **Database and archives. The materials library**

A complete database of components from the main manufacturers in the Italian marketplace with the possibility to associate the products' codes to the electrical symbols on the drawing.

Products from the main manufacturers are always updated and available in real-time using SPAC Data Web, an on-line materials synchronization service.

Graphically customizable technical libraries with thousands of components: PLCs, Starters, Inverters and special components, all in continuous evolution.

✓ **On guard. Always by your side**

SPAC Automazione® is updated continuously with normative changes, technological evolution and new products.

SDProget is constantly besides the customer with a complete set of technical assistance services and training activities to keep in touch with the professional trends in the electrical industry.

✓ **The only Electrical CAD with a Free 30-days Demo trial. Nothing to hide.**

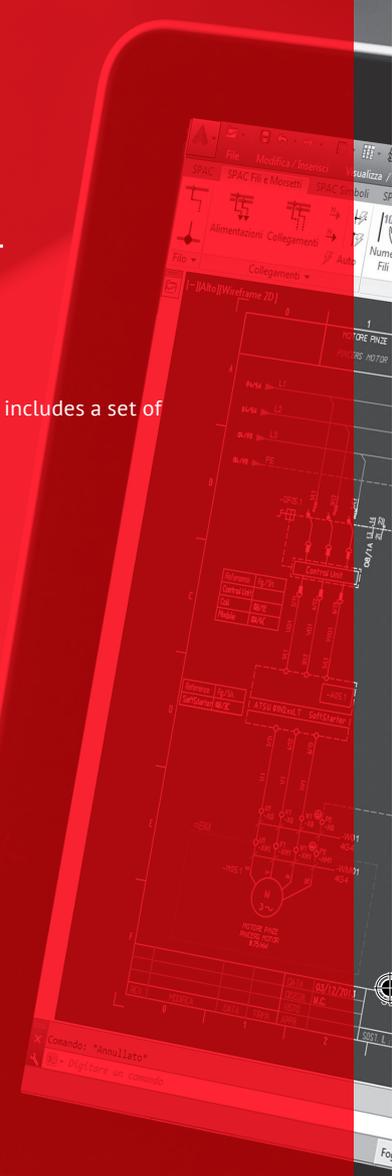
There is no better argument than the field test. SDProget provides for free the trial version of SPAC Automazione® Software with all the features enabled for 30 days with free technical support.

This is the best way to test and compare SPAC Automazione® with other competitors' products.

✓ **Detailed schemes and reports. The best printings with SPAC**

Customers' priorities at first. The goal of SPAC Automazione® users is the creation of useful electrical schemes and reports in order to provide clear and reliable information to the operators that will build and maintain the plant / machinery.

SPAC Automazione® generates complete and high-quality printings that facilitate the execution of the electrical activities to the professionals involved.



The Main Features

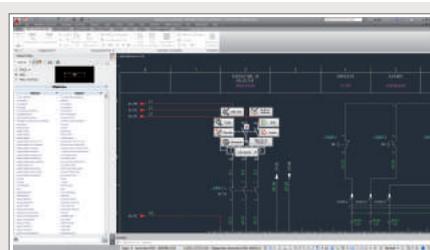
- ✓ Multi-Sheets and Job Orders management without limitation on the number of pages
- ✓ Graphical symbols compliant with Normative (IEC, VDE, JIC, Single-Feed, Electronic, etc.)
- ✓ Fluidic and pneumatic schemes
- ✓ Graphical library for Drives, Inverters and Modules
- ✓ Dedicated suite for the fast creation of symbols
- ✓ Powerful and fast commands for the design of Multi-Polar and Single-Feed functional schemes
- ✓ Automatic and semi-automatic wires numbering with the IEC 391 normative marking option
- ✓ Connectors and Terminal Blocks design with splitters, equipotential and multi-level terminals
- ✓ Cross-Reference with navigation features on diagnostics
- ✓ Dynamic navigator to identify in a fast and easy way the components in the scheme
- ✓ Graphical symbols library of 2D and 3D PLC boards from the main manufacturers
- ✓ PLC I/O drawing from database and graphical symbols with bits import / export features
- ✓ PLC drawing starting from a configuration or an I/O Excel file
- ✓ Association of materials' codes to electrical symbols with Drag&Drop from a customizable database
- ✓ Italian materials database constantly updated and synchronized on-line using SPAC Data Web (requires the activation of the Global Assistance Service)
- ✓ Creation of customizable Bill of Materials in the drawing or in a file
- ✓ Documentation of the materials used on the project with PDF Datasheets
- ✓ Use of an estimated Bill of Materials during the design phase
- ✓ Data export to label printers for the identification of Components, Wires and Terminals
- ✓ Wires and multi-polar cables Bill of Materials
- ✓ Electrical panel cabling table
- ✓ Automatic wires routing inside the electrical panel to calculate wires length and optimize paths
- ✓ Design of Single-Feed schemes with the management of tables and outputs
- ✓ Automatic schemes creation with the Machinery Configurator feature
- ✓ Mechanical design of the electrical panel with accessories (internal and external layout)
- ✓ Assisted design of the panel layout using Drag&Drop from the data on the Bill of Materials
- ✓ Automatic design of the push-button panel layout (front and rear side)
- ✓ Plant layout
- ✓ Loop Diagram - List of connection points from a component on the machine-mounted panel to the main panel
- ✓ Calculation of the panel over-temperature
- ✓ Job Order data export and import in Excel
- ✓ Sheets' revision management to save and restore project's status
- ✓ Creation of a dynamic PDF file to navigate the scheme by cross-reference, materials and links to on-line Datasheets
- ✓ Bidirectional Interface between electrical schemes (SPAC) and P&ID schemes (EsaPro)
- ✓ Interface to exchange data between the electrical scheme and the plant layout to calculate the cables' lengths on the 3D raceways (Cable Trays)
- ✓ Interface to exchange data with Cabling 4D for the design of electrical harness layouts
- Cables Module
- Translator Module
- PDM Module
- Cabling

The items identified with ○ symbol requires the purchase of an additional module

SPAC Automazione, an integrated system

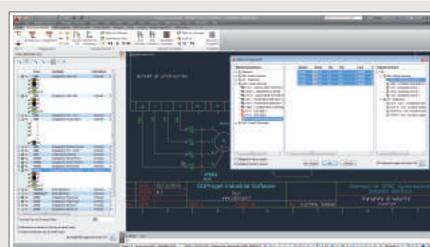
SPAC Automazione® is more than a Software. SPAC Automazione® is a modular and flexible professional system with specialized features that helps designers to face the challenges related to the drawing of electrical schemes for industrial automation plants and special machines.

The flexibility and availability of different modules consent an investment that suits the project characteristics. The optional modules can be purchased when required.



Translator

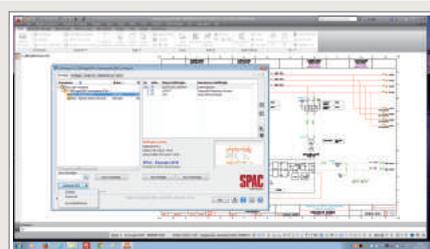
The Translator is a SPAC Automazione® optional module that allows the translation of the text on the schemes in 6 languages: Italian, French, English, German, Russian and Chinese. Customers with the Global Assistance can use a professional on-line translation service to make the translation of single words and phrases in several languages at the same time. Each translation made can be saved in the program's archive.



Cables Module

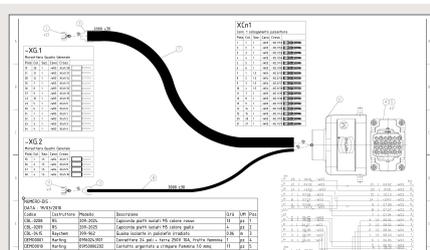
The Cables module is a set of specialized features on SPAC Automazione® for the management of multi-polar cables and wires to simplify their definition, increase the design quality and productivity.

This optional module was developed by specialized technicians with first-hand experience in the cables' design field.



PDM

An optional module for the interface with files gathering and management Software during drafting, design and production phases. It packages the Job Order data and prepares the PDF/DWF files that will be used to share the project. It allows the Check-in/Check-out, the data update on the template and it could dialogue with the main PDM Software in the marketplace. The PDM module consents the automatic processing of the schemes and the creation of outputs in batch mode.



Cabling

Cabling is a program for the design, analysis and auto-documentation of electrical harnesses in different application fields. It is available as an autonomous Software or as a module of SPAC Automazione®.

This program uses the data on SPAC Automazione® functional schemes to create the harness layout and other constructive drawings. Cabling is commercialized in three specialized configurations for the design, productions and testing of electrical cables.



SDProget A complete set of services since 1988

Users of **SPAC Automazione**® Software are supported by SDProget services

Technical Support

Technical experts on the Industry guarantee customers a high-quality assistance with service packages that include phone calls, e-mails and remote connections.

Software Updates

A new version of the program is developed every year to offer a constant technological innovation.

It is very important to keep the Software updated to have the maximum productivity. Customers can select the update approach that suits their needs better.

Constant Software Development

SDProget is engaged in the Software improvement and invests several resources in Research and Development, cooperating with designers on the field to address their real drawing problems.

Professional Training

SDProget is a reference on the professional training of its customers. Start-up training is available after the purchase of a new license to reduce the Software learning curve. Specialized training sessions can also be provided according to the customer needs.

Design Consultancy

SDProget technicians are available for a specialized consultancy to solve complex electrical design issues.

Update of the Materials Archive

SPAC Automazione® has one of the most complete materials archive on the marketplace.

SDProget updates constantly the products' catalogues from the main manufacturers in the Italian industry.

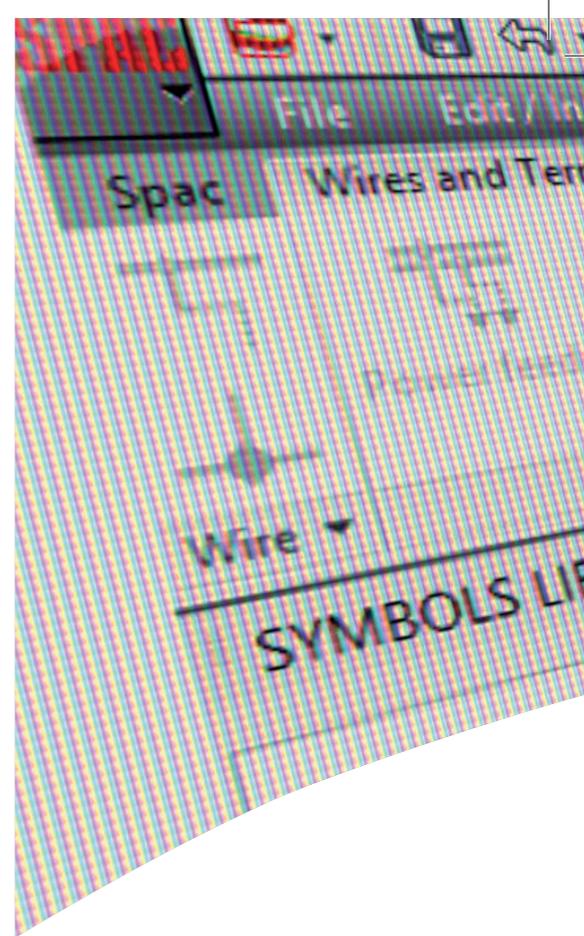


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