

Delivering complete safety solutions while streamlining development, improving compliance, and reducing cost

## Features and Benefits

Safety Automation Builder\* reduces the time to design, develop, and deliver your safety solutions. It accomplishes this by facilitating the safety system design process, helping you select products to achieve the required safety performance level (PL) according to global standard EN ISO 13849-1, and creating SISTEMA projects for analysis of all safety functions.

Use Safety Automation Builder to:

- Layout machine hazards and access points
- Define safety functions and select safety products
- Export data to SISTEMA for evaluation†

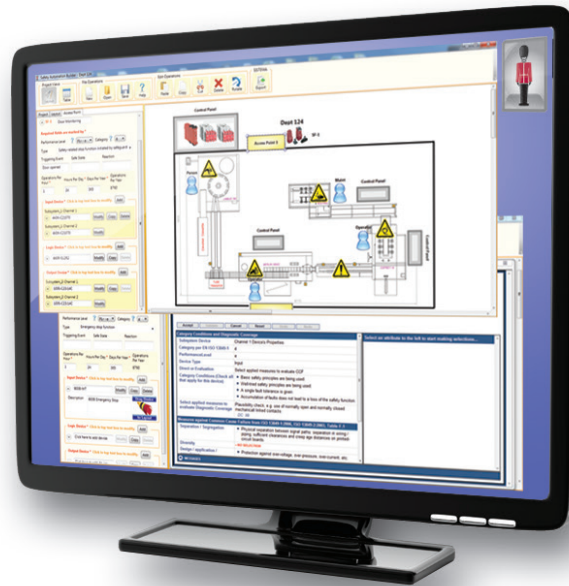
Outputs of the tool include:

- Conceptual Safety Layout Drawings
- SISTEMA project files†
- Bills of Material

\* Patent pending

† SAB and SISTEMA tools must be used in conjunction with each other to provide this output.

*Build a safer machine with  
Safety Automation Builder*



Engineers no longer have to endure the time-consuming process of manually designing and documenting safety systems, often introducing human error and reducing compliance with accepted standards. The latest addition to our suite of safety tools, Safety Automation Builder, simplifies this process with a powerful, yet intuitive user interface that helps designers save time and gain confidence when verifying that a safety system meets all requirements.

Safety Automation Builder software leverages the industry's most complete offering of safety products, utilizing widely accepted best practices to build a complete safety solution. It also helps facilitate training by enabling users to simulate the development of applications, including hard guarding, input/output devices, control systems and connectivity.

Safety Automation Builder now simplifies the process of:

- identifying required safety functions
- selecting safety input, output and logic devices
- calculating the achieved system performance level to EN ISO 13849-1
- identifying and drawing potentially hazardous access points
- drawing hard and movable guarding
- printing out machinery layout drawings

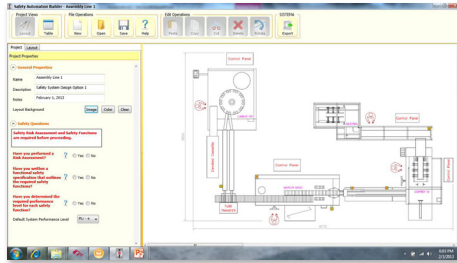
Users import an image of machinery, and Safety Automation Builder guides them through the safety system development process by asking questions using a drop down selection menu and help screens to identify and select the necessary safeguards. It then compiles all product selections, indicates the attained safety performance level (PL) according to EN ISO 13849-1, provides a SISTEMA (Safety Integrity Software Tool for the Evaluation of Machinery Applications) project file for analysis, and generates a bill of materials.

Direct integration to ProposalWorks allows complete Bills of Material to be generated.

**STEP 1**

**Projects details**

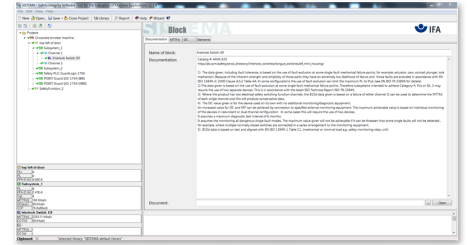
From the project screen, users can create a project name, add a description, and import system and machine layout drawings for use during safety system design process.



**STEP 4**

**Design Verification**

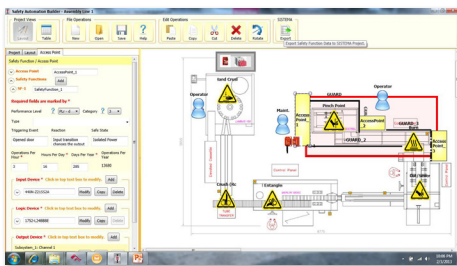
In this step, the combined list of safety functions is exported to SISTEMA for design verification. Safety Automation Builder combines SISTEMA reports for individual safety functions into one concise report that indicates the overall system performance level of your system design.



**STEP 2**

**System layout**

The layout screen is where the bulk of the engineering and design efforts take place. Here, users can create zones, control panels, and hazards by dragging icons onto the locations that they appear. From this screen, users can also identify physical guarding locations and access points that will be used by operators to interact with the machine or system.



**STEP 5**

**Bill of Materials**

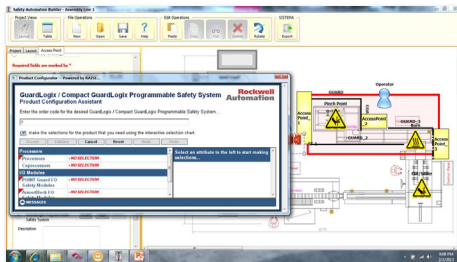
Based on the previous steps in the design process, a complete bill of materials is generated that includes part numbers, descriptions, typical delivery times, and quantities of products needed to complete your safety system.



**STEP 3**

**Hardware selection**

Each access point will require additional inputs. This is where the individual safety functions are created. Each safety function requires selection of input, output, and logic devices. This is done through drop down menus.



**To access Safety Automation Builder and other safety tools, visit us at**  
<http://discover.rockwellautomation.com/safety/SAB>



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