

Enter Prefabrication by Investing Smart – Redbloccsystems and SABO have the Solution

SABO has commissioned for Redbloccsystems a new line for the production of prefabricated wall elements in Büchenbeuren/DE. The line is semiautomatic which means that the assembly of every single layer is done by people with the use of assisted mean – weight-compensating manipulators with vacuum grippers –, and the rest of the operations is done automatically by machines, i.e. building, gluing, and drilling the layers together with the handling of the finished wall.

The system that has been developed by Redbloccsystems is unique in the market given the fact that the wall is ready for transport in just 40 min after its construction and no reinforcement is needed in the finished wall. This modern manufacturing approach significantly enhances the efficiency, ease of use and responsiveness of the plant. Together with other important developments like the reusable wall lifting system and the efficient and cost-effective application of the bonding mean are enough to give an important competitive advantage to the investors that are selecting Redbloccsystems. As in the fully automatic version, the creation of the construction drawings of the walls from the architectural ones is done seamlessly with a combination of special software and the information is reaching the people that are building the layer via a screen.

This very important feature essentially means that all kinds of different drawings can be implemented through a made-to-order system. In addition, the use of a special glue as a bonding mean ensures further the simplicity and efficiency of the line. Such a system, even though not fully automatic

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Fig. 1 Schematic line for the production of prefabricated wall elements



Fig. 2 Production of prefabricated wall elements

ensures high productivity and quality since it involves operations in a controlled industrial environment and process.

The line is designed in such a way that it can be easily upgraded to a fully automatic one. Redbloccsystems and SABO have developed for their prospective customers a phased

investment that can be applied by scaling up not only the level of automation but also the functionality of the plant in various steps.

Such an introductory line gives the ability to companies from the building sector to enter prefabrication with the minimum amount

of necessary investment and proceed more cautious according to the market outlook. This has already created big interest to many sector participants that are considering introducing prefabrication solutions in the market.

This was the 3rd project delivered after the installation of a fully automatic plant in Saint-Georgen/AT, and a line in Italy which, in fact, processes AAC blocks instead of ceramic bricks. A fourth one – also fully automatic – is currently installed in West Austria. This 4th one together with the one delivered in Saint-Georgen are incorporating a very high level of functionality and wall building options that can meet high standards and special wall requirements.

The close cooperation between SABO and Redbloccsystems ensures that each new plant encompasses new optimizations



Fig. 3 Prefabricated wall element

(Figs.: SABO)

and improvements built on the experience gained from the previous plants. Finally, through such lines and solutions a traditional product like the ceramic block with long

history, big evolution and superior properties can continue to thrive in a world that is trying to embrace the many real benefits of the prefabrication.

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