



Case Studies

Brucha & SIMPLOX 161

Customised connection technology for maximum efficiency

Initial situation

Brucha GmbH is a leading supplier of high-quality panels and insulation solutions.

During a factory visit, we discovered that Brucha also uses panel connectors – but with different hole spacings than our standard product SIMPLOX 122.

The result: SIMPLOX 122 would not have been compatible with the existing tools and the fully automated assembly line.

A change without adaptation would have meant extensive adjustments for Brucha – with high time and cost expenditure. Initially, interest was therefore muted.

Initial situation

However, during discussions, it became clear that the technical advantages of SIMPLOX could give Brucha a decisive competitive edge:

- A protective skin that prevents foam from penetrating the cassettes (housings) during the foaming process, eliminating the need for time-consuming covering.
- Automatic venting function for clean and secure connections
- High connection stability even under demanding conditions

We then decided to jointly develop a customised SIMPLOX that is precisely tailored to Brucha's requirements.

The solution

Our development team designed SIMPLOX 161 – a special version with identical technical features to SIMPLOX 122, but with dimensions adapted to fit Brucha's tools and their fully automated assembly line perfectly. A clear signal of the high demand for and confidence in our solution.



The advantages for Brucha

With SIMPLOX 161, Brucha is now achieving significant improvements in several areas:

1. Faster assembly processes

- No more covering of cassette holes necessary
- More efficient throughput times on the fully automated system

2. Greater process reliability

- The integrated hook mechanism compensates for minimal misalignments between panels
- More stable connections even with panels that are not perfectly aligned

3. Cost and time savings

- Less rework and fewer reject
- Improved productivity in series production

4. Seamless integration

- Optimal adaptation to existing systems and processes
- No additional training or conversion costs



Conclusion

The SIMPLOX 161 project shows how a technical challenge can be turned into a solution that **optimises processes, reduces costs and increases productivity through partnership-based cooperation and precise adaptation.**

Anyone looking for a **tailor-made connection solution** will find SIMPLOX to be the perfect combination of innovation, quality and practicality.





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