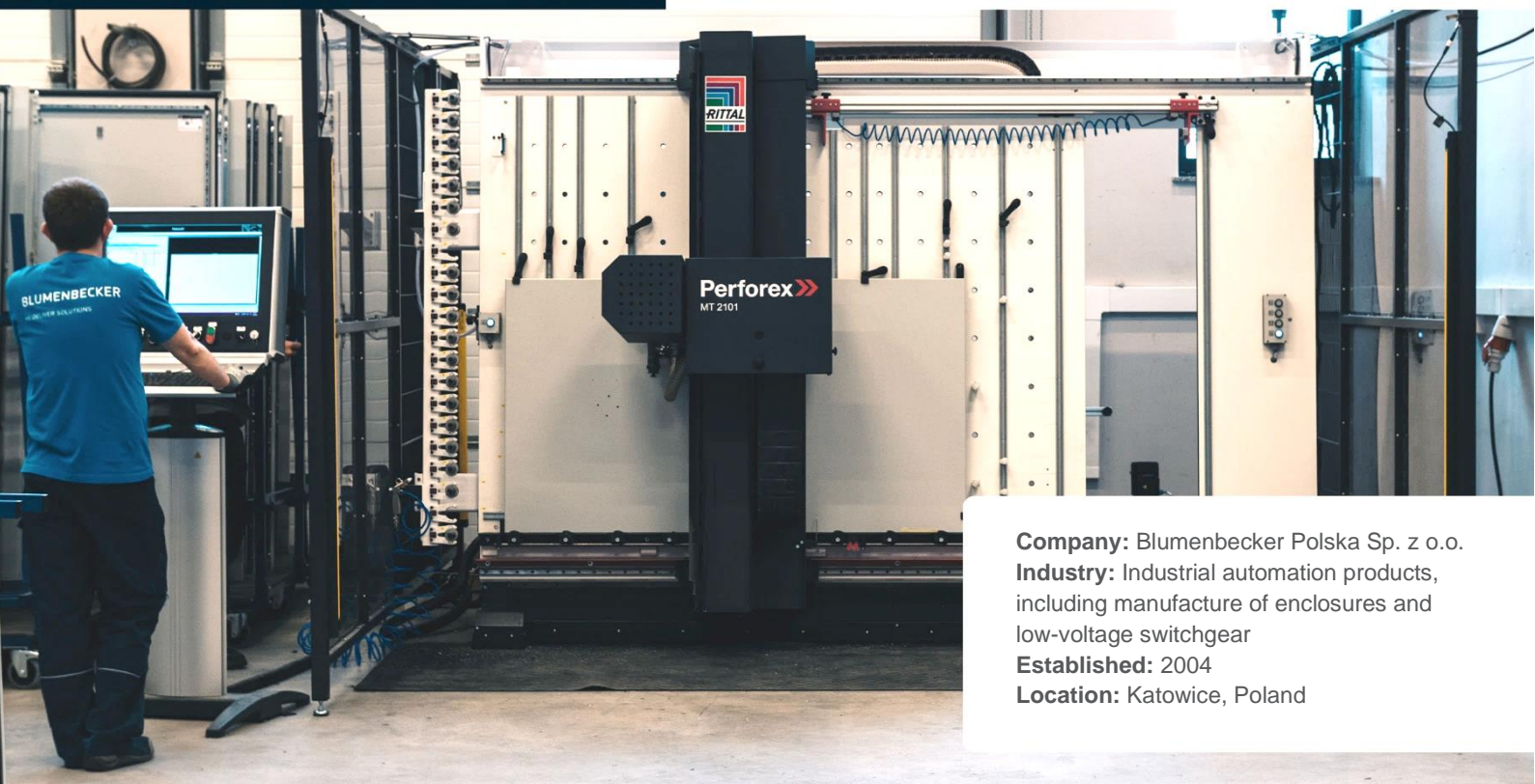


Blumenbecker Polska

Another project towards increased efficiency and effectiveness of tomorrow

REFERENCES

Project tailored to our customers' needs



Company: Blumenbecker Polska Sp. z o.o.
Industry: Industrial automation products, including manufacture of enclosures and low-voltage switchgear
Established: 2004
Location: Katowice, Poland

Blumenbecker Polska is expanding its equipment resources in response to the customers' high demands for the Industry 4.0 solutions and digitalisation of industrial production processes.

Perforex Milling Terminal 2101 by Rittal, which we ordered in November 2021 and which was delivered in

March 2022, constitutes another stage of our projects related to the increasing manufacturing demand from our customers for machining all compact housings and full-size enclosures.





Solutions we have chosen:

1. Perforex MT

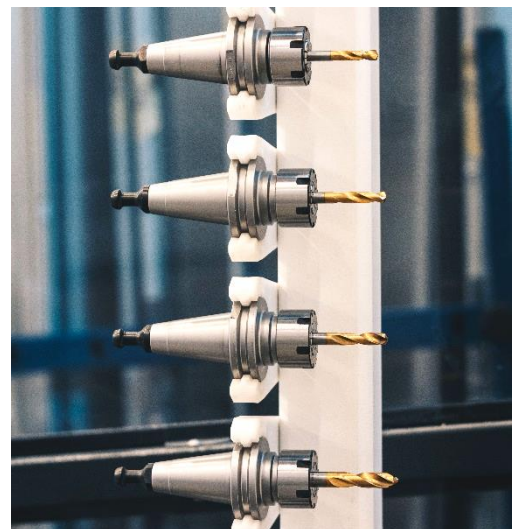
Perforex MT, as 4-axis CNC machine, can preconfigure non-standard housings, enclosures, and control panels. It can also be used for automatic machining of flat and hexagon-shaped parts through hole drilling, threading and making cut-outs with machining precision of ± 0.2 mm and maximum spindle rotational speed of 21,000 rpm.

An additional advantage of the Milling Terminal that we have bought is its ability to automatically change **21 tools** including the custom-made **circular thread milling cutter – AS 4050.887** which simultaneously mills and cuts metric threads in materials such as steel, stainless steel, cast aluminium, plastic or copper.

All tasks performed by the Perforex MT, i.e., drilling, milling, and threading are performed as part of a single machining procedure, without the need for the operator's intervention. This solution allows us to manufacture more efficiently and effectively as well as meeting the requirements of the Industry 4.0.

Using the Perforex MT, we can modify not only mounting plates but also doors or standard enclosures – from compact to full-size ones.

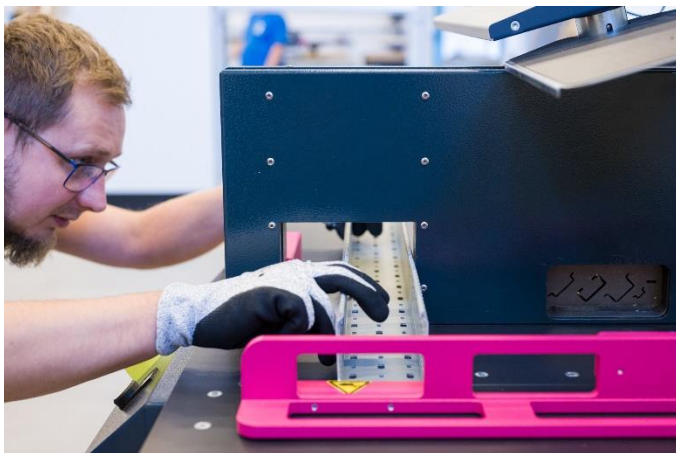
Quality and precision of mechanical work we perform is at a very high level, whereas the risk of a mismodification has been completely eliminated. Therefore, our production capacity has increased by 30%, while average work time needed for pre-configuration of a standard mounting plate was reduced to just 35 min.

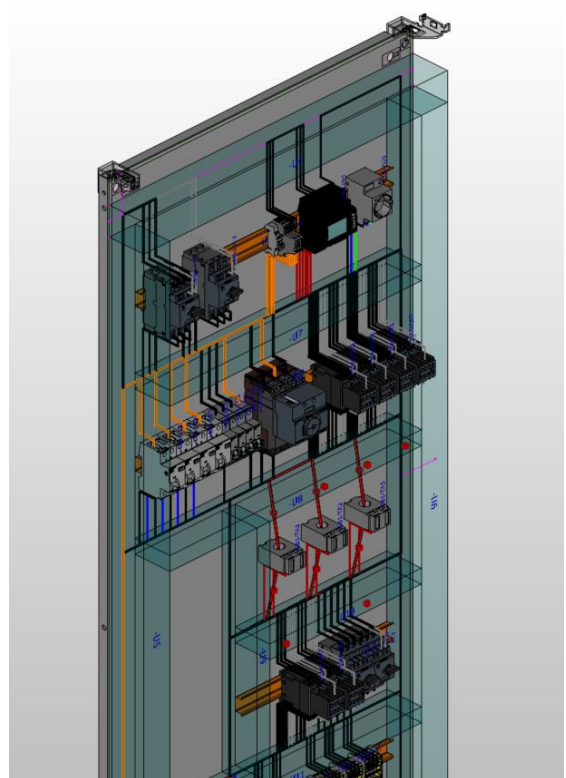
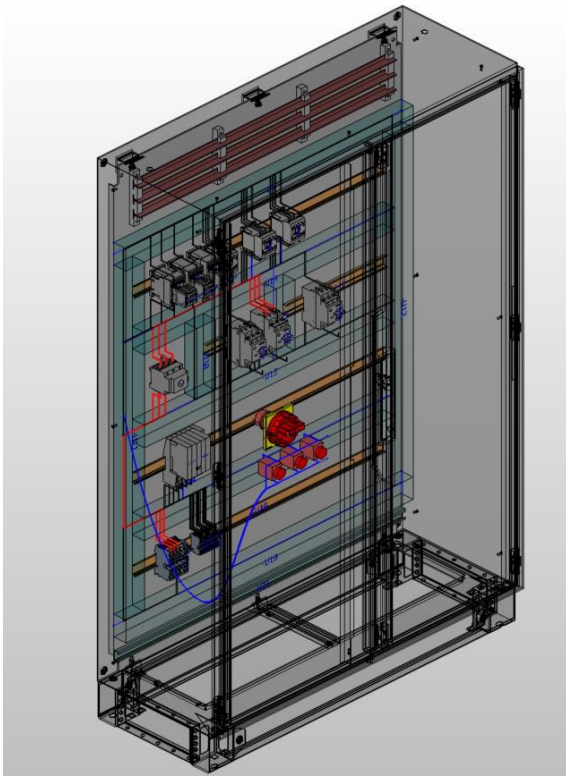


“Our production capacity has increased by 30%”

2. Secarex

Secarex is another tool crucial for the enclosure manufacturing process. **Secarex**, which was delivered to us in June 2022, is a cutting centre used for optimised cutting of wiring ducts and cable covers, as well as mounting rails based on the data input from the EPLAN Pro Panel software – in such a way as to generate as little waste as possible. Additionally, an integrated label printer enables individual labelling of rails or cable ducts. This way, the manufacturing process time has been greatly reduced, while efficiency, precision, and performance quality have been improved.





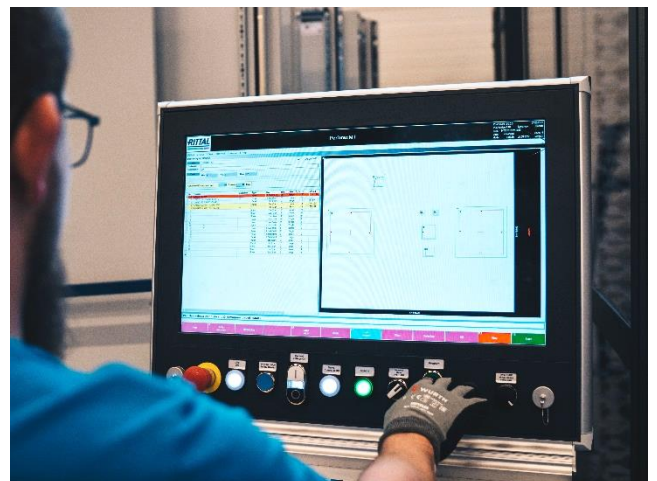
All starts from a design

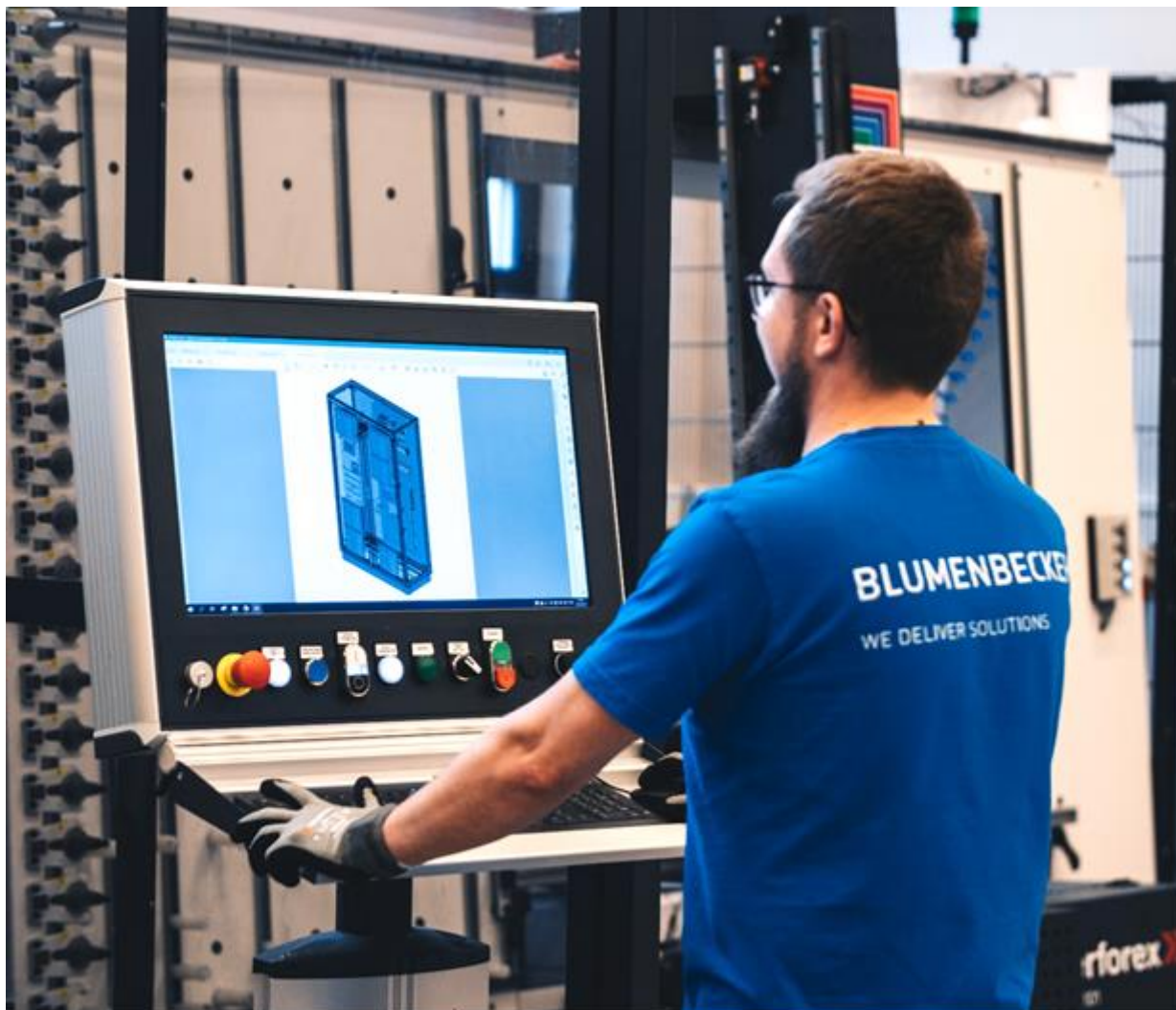
The **EPLAN Pro Panel** software is an indispensable part supporting the process of enclosure design. It offers all the functions necessary for laying out components on mounting plates and for selecting appropriate power supply units (based on EPLAN Electric P8). It must be stressed that EPLAN Pro Panel enables on-line access to all devices used in the project, supports device management function, and uses capabilities of and information from data bases offered by the EPLAN Data Portal. It allows designers to quickly and easily generate standard assembly and production drawings, along with the related model views.

The **EPLAN Electric P8** software is the basic and initial component of the entire process. It is a coherent, comprehensive, and fast engineering system for electric design. Its users receive automatically created detailed reports and design documentation. Moreover, the software makes available all engineering data that are needed at subsequent stages of the process.

For many years, **EPLAN** has been our standard in the design process. We implement all the latest versions of the software on an on-going basis, while the Blumenbecker Polska designers regularly participate in numerous training sessions on use of its latest versions.

The most recent training session was held in November 2021, and its subject was the **EPLAN Pro Panel Professional** software, an integral part of the EPLAN platform.





Taking into consideration the requirements set by our customers from numerous industries, we can safely say that the investments we have made in the Blumenbecker Polska company have improved our competitiveness and brought us to a new level of non-standard size enclosure and control panel manufacturing quality.

The expansion of our equipment resources is part of the changes taking place in the Industry 4.0 and in Manufacturing 4.0. This is also part of our philosophy of customer service – to support our customers, always offering them the best technological solutions:

“We deliver solutions”

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