



Success Story

Baubot GmbH

Professional product data management
for the future of construction

Customer

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Products

- PDM Studio with SOLIDWORKS integration
- MS Office integration
- Automation of routine tasks
- Data transfer with CleverImport

- Fast implementation
- Completion within time and budget constraints
- High user acceptance thanks to intuitive operation
- Flexible and scalable for the future

The construction site of the future is digital, automated, and relies increasingly on smart, mobile high-tech assistants. What sounds like a distant vision is already a reality at the Vienna based Baubot GmbH. The company, which specializes in the development of automated manufacturing processes and mobile robotics solutions for the construction industry, has been using CAD Partner GmbH's PDM

Studio product data management system since 2023. The move was part of a clear strategy to achieve greater structure, efficiency, and scalability throughout the technical product development. The goal: a future-proof and streamlined PDM workflow that is tailored to the agile working methods of a growth-oriented tech company and can be dynamically adapted.

FROM START-UP TO FISCHER SUBSIDIARY: THE DEVELOPMENT OF BAUBOT

Baubot GmbH was founded in 2017. Originally, the start-up focused on 3D printing of paving stones, an idea that quickly evolved. Today, the company offers a versatile robotics platform for a wide range of tasks on construction sites. Whether drilling, milling, pain-

ting, or setting anchors, the robots are designed to take on repetitive and physically demanding tasks. This technological leap was accompanied by the takeover by the German fischer group, of which Baubot has since been a wholly owned subsidiary.

Baubot HEPA Dust Extractor

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Georg Fröhwrth
Team Lead Mechatronik
Baubot GmbH

BAUBOTS MAKE WORK ON CONSTRUCTION SITES SAFER AND MORE EFFICIENT

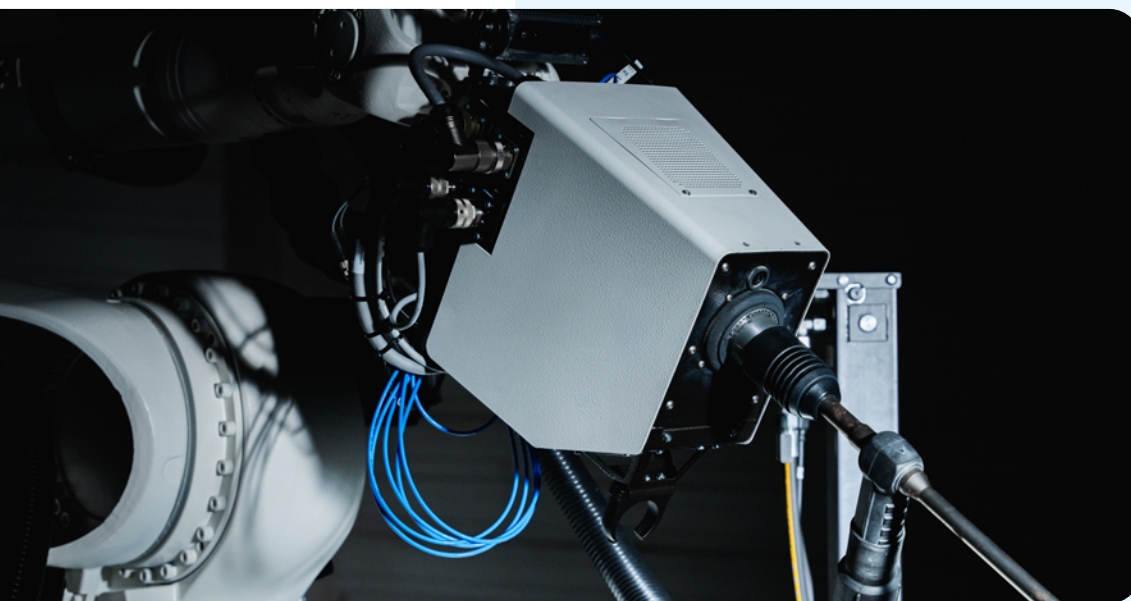
Nowadays, mobile robots (so-called Baubots) are being designed and produced to work autonomously with the aid of advanced software and control systems, even under difficult conditions in tunnel construction or on large construction sites. The two main platforms, the more compact MRS5 and the more powerful MRS15, are modular in design with interchangeable tools and application packages. In addition, the construction robots

are equipped with exceptional safety features, including advanced sensors and collision detection systems, to ensure operation in dynamic environments and safe when working alongside humans. The advantages are obvious: relief for skilled personnel, high precision, and a well-documented working method with consistent quality, especially where humans reach their physical limits.

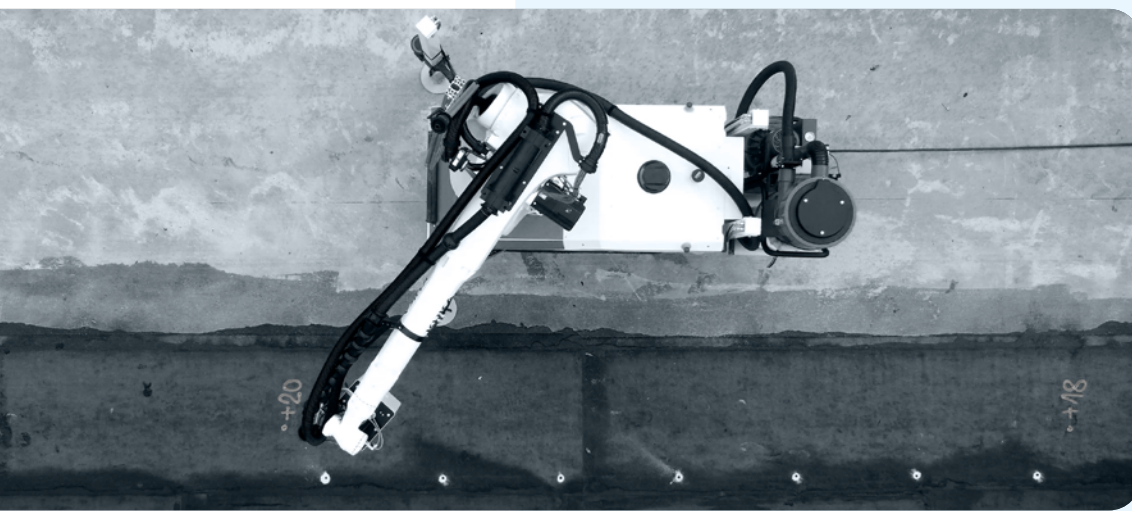
GROWING SUCCESS MAKES PROFESSIONAL PDM INDISPENSABLE

However, with success came greater organizational demands. An increasing number of development projects, a significant rise in design data, various products and variants, and a growing number of employees made professional data management essential. “We had simply reached the point

where our previous data organization solution was no longer sufficient,” explained Georg Fröhwrth, Team Lead Mechatronics at Baubot. The existing data storage in the file system had become confusing and was no longer scalably viable; a future-proof solution was needed.



Baubot Max Drilling Tool
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Baubot HEPA Dust Extractor
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**PDM STUDIO:
EASY TO USE,
QUICK TO IMPLEMENT,
SCALABLE**

The requirements for the new PDM solution were clearly defined: seamless integration into the existing SOLIDWORKS CAD environment, easy transfer of existing data, intuitive usability, and the ability to automate pro-

cesses. A professional software solution suitable for a medium-sized company was needed – affordable, user-friendly, future-proof, and ready for use as quickly as possible.

The choice fell on PDM Studio from CAD Partner GmbH, an established specialist in product data management solutions based in Germany. „In a market comparison, CAD Partner impressed us with its many years of expertise in the PDM environment and the high flexibility of PDM Studio. We found a partner who understood our specific needs and was able to implement them perfectly within the planned budget,” said Frühwirth. The system’s ability to go beyond the mere management

of CAD data made all the difference. Baubot wanted to manage not only design data but also PDFs and other data from its suppliers. With user-defined categories and MS Office and SOLIDWORKS integration, PDM Studio was able to cover all requirements, surpassing the solutions offered by other providers. The robotics company was also impressed by the ability to automate recurring routine tasks via workflows without any programming effort.

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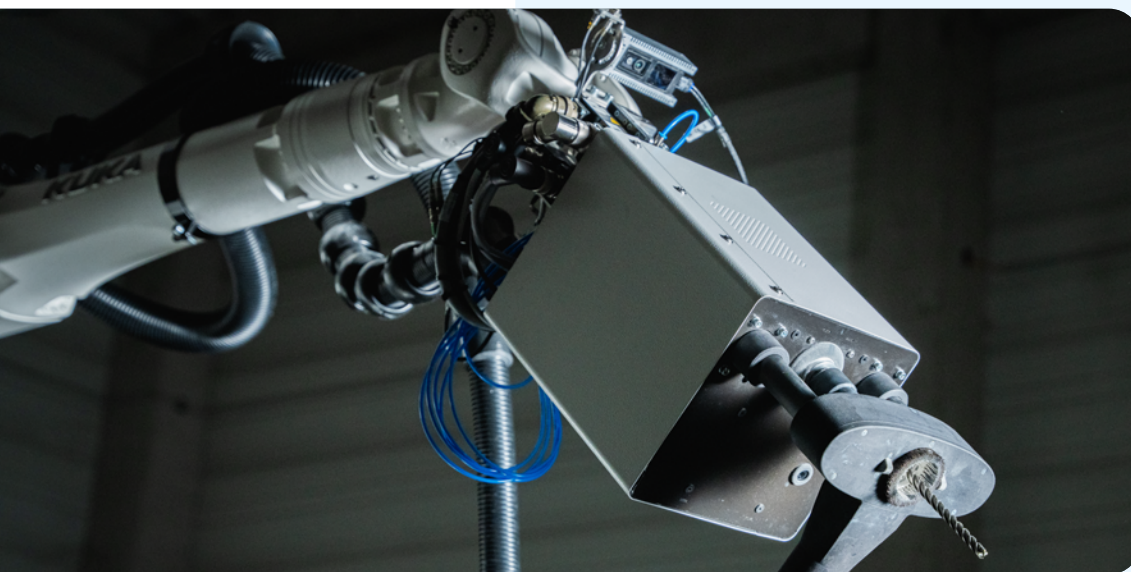
„It was important for Baubot to integrate a lean but powerful PDM system into the existing CAD software environment in a short period of time in order to enable a future-proof and efficient workflow in CAD engineering as quickly as possible.“

Georg Frühwirth
Team Lead Mechatronik
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IMPLEMENTATION IN JUST 8 DAYS – THANKS TO STANDARD CONFIGURATION

“It was important for Baubot to integrate a lean but powerful PDM system into the existing CAD software environment in a short period of time in order to enable a future-proof and efficient workflow in CAD engineering as quickly as possible,” Frühwirth reported. The project was launched in spring 2023 and was implemented at remarkable speed. CAD Partner implemented the software in just eight service days. This was made possible by the PDM Studio Express rapid start bundle. A preconfigured range of functions, developed by CAD Partner, based on years of experience in PDM/PLM projects, minimizes costs and implementation effort, protects the organization from overload, and pro-

motes acceptance among employees – a decisive success factor when introducing new software. Future adaptation and expansion in terms of functionalities and integrations, e.g., with an ERP system, is possible at any time. After a short training session, Baubot migrated the data from the existing file system independently using the so-called CleverImport. The data is migrated step by step and with the help of an assistant only when necessary. “The function is easy to use and powerful in its capabilities,” explained Stefan Mitsch, Business Development Manager at CAD Partner. “This makes it perfect for users who want to transfer their inventory data to PDM Studio themselves.”



Baubot Plus Drilling Tool
© Baubot GmbH

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Business Development Manager
CAD Partner GmbH

CONCLUSION: EFFICIENCY, STRUCTURE, SUSTAINABILITY

The integration went smoothly without placing a significant burden on employees, particularly because CAD Partner provided targeted training and practical user workshops. Since going live, Baubot has benefited from a clear, systematic structure for data management and a professional development workflow.

Design data can be found quickly, is always versioned in a traceable manner. Changes are documented, and the exchange of data with other departments is clearly regulated and automated. The collaboration between Baubot and CAD Partner once again demonstrates how important it is that IT solutions not only function flawlessly from a technical standpoint, but also fit in with the corporate culture.

Even more crucial: a partner with a genuine understanding of the process – and a flexible solution that can reflect that.

With PDM Studio, Baubot was able to strengthen its innovative power in a targeted manner – instead of being impeded with growing data chaos. “Due to the continuous development of our company, working with the experienced team at CAD Partner is an efficient way for us to continue to have perfectly tailored IT solutions in the field of CAD engineering in the future,” summarized Frühwirth. With the tailwind of a stable PDM structure and a reliable partner at its side, Baubot will continue to advance its mission – to make tomorrow’s construction sites smarter, more efficient, and safer.

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