



PART
SOLUTIONS

PARTSOLUTIONS AT BOMAG

CASE STUDY



PARTSOLUTIONS AT BOMAG: LOOK FOR PARTS, FIND AND REUSE THEM

BOMAG, with its headquarters Boppard near Koblenz, is the world market leader in the field of compaction technology and manufacture of machines for the compaction of soils asphalt and refuse, stabilizers/recyclers, land milling machines as well as finishers. For a better management of self-designed and supplier parts, BOMAG has been using CADENAS' strategic parts management PARTSolutions since 2009.



Limit the proliferation of parts and improve business processes with PARTSolutions

The key benefit of PARTSolutions is to find CAD components faster and easier. In addition to search, PARTSolutions helps reduce the volume of parts in the system and to manage the parts a company needs; saving significant costs in the long-term. Additionally, cooperation between procurement and engineering improves, since CADENAS' software solution provides both departments access to the PARTSolutions parts database.

Initial situation at BOMAG

At BOMAG about 85,000 standard, supplier and internal standard parts are built into their various products. Previously parts management was carried out by an SAP based system. This system, however, had some significant weak points: Only the components which were managed within the system were used regularly. For other standard parts, the previous solution referred only to small or repetitive parts, and these items had to be classified manually. Therefore the acceptance of this system was rather limited throughout the company.



This resulted in specific demands for a new parts management:

- The user should be provided with a reliable and efficient parts search and management system
- Avoiding duplicate parts is of highest priority to effectively reduce costs
- The system should be simple and easy to learn, user friendly and intuitive to ensure that the training period and user errors are minimal
- The software provider should offer a comprehensive support for the implementation/introduction of the system

PARTsolutions specific solution

“After we had looked at several systems, we eventually decided on CADENAS’ PARTsolutions because it offers exactly the solution we need”, says Hickmann.

At BOMAG, PARTsolutions is used in the design and the procurement departments:

“Our purchase department is informed with a notification of change when a new part has been designed and released for procurement. Within the PARTsolutions system the procurement agent can upload the new part and use it to look for a similar component. This makes it possible to estimate how much the new component will cost from the beginning. This approach makes sense with complex molded parts made of casting or plastic”, Hickmann explained.

»According to our internal analysis, especially small and repetitive parts are quite expensive when they are created for the first time. The real costs of course depend on the size, the complexity and the material of the respective components. However, before any drawing part, no matter how simple, can be produced, it has to be designed and entered into our PLM system. Then a 2D drawing and a flow chart have to be created and a storage place has to be set up. If a part is not an in-house production, it runs through the procurement process. All these process steps cause tremendous costs. On the average every new creation we avoid means a cost saving of about 1.200 Euros to our company. Of course new parts will constantly be created at BOMAG, since we are permanently developing new products. But at least we have to avoid creating duplicate parts.«

DIETER HICKMANN
CAD ADMINISTRATOR ENGINEERING
BOMAG GMBH



PARTsolutions integration into the BOMAG system environment

Altogether about 80 workstations at BOMAG in Boppard are equipped with PARTsolutions. The integration of the software environment was carried out by a software management system that automatically installed PARTsolutions on the workstations. This method ensures that the complete system is always equipped with the latest version.

The 80 workstations are supplemented by five floating licenses that allows individual employees to use the functions of the Strategic Parts Management ad hoc. These include:

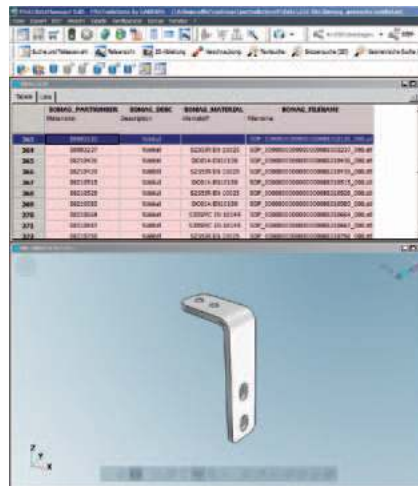
- Using the Geometric Similarity Search within an existing parts inventory
- Using the Geometric Similarity and Topology Search directly from the CAD design software
- Searching and directly inserting standard and catalog parts into the CAD development environment

Hickmann comments: "Our developers are using the CAD software "Creo Elements/Direct Modeling" from PTC. It makes work a lot easier when the standard parts from the catalog can be directly imported into the CAD environment."

Jointly planned projects

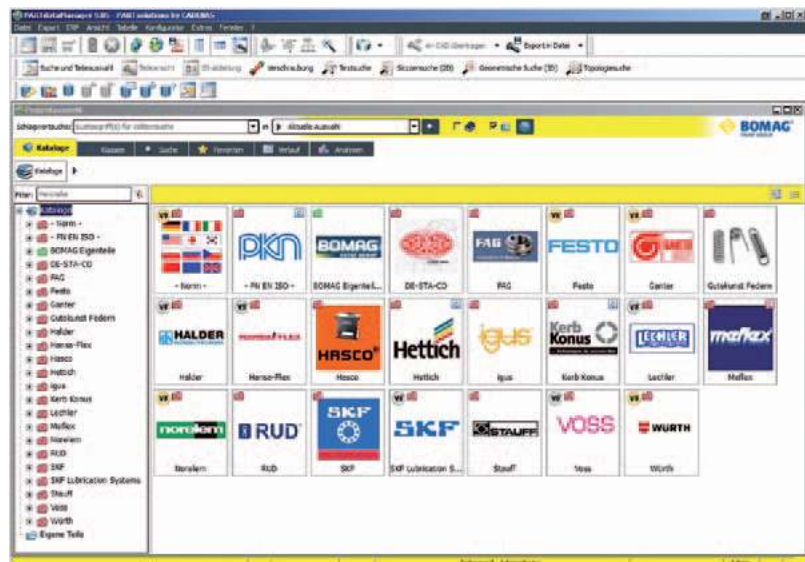
All relevant workstations in the three areas of design, equipment design and procurement are equipped with PARTsolutions, and the computers of newly hired staff are equipped with the Strategic Parts Management by default. Users watch closely for developments with our CADENAS software solution, for instance the integration of the hole pattern search function coming up in 2014 is a eagerly awaited feature.

There are also plans to equip another BOMAG production site with PARTsolutions in 2015.



With PARTsolutions' Geometric Similarity Search, standard parts can be found fast and efficient

Direct access to 3D CAD data from Electronic Product Catalogs of high profile manufacturers through the PARTdataManager





Conclusion: Improvements and optimizations at BOMAG by using PARTsolutions

Taking a look at the completed project, Dieter Hickmann sees very positive results:

“The conversion to the new software went smoothly. Since the classification of small parts can now be omitted, we save a lot of time. All in all, the situation at BOMAG developed very positively since PARTsolutions has been in use. The total parts volume has not decreased of course - as a result of continuous new developments, new components are constantly created - but without the use of PARTsolutions, the increase of new parts would have been significantly higher. The main reason, due to the high user acceptance of PARTsolutions, the cost awareness of our designers when they create new components has tremendously improved.”

Markus Poppinghuys, head of CADENAS Essen branch and project manager for BOMAG offers a positive summary

» Since 2009 the Geometric Similarity Search has been in use, to manage repetitive parts and standardize self-designed parts at BOMAG. Using the PARTsolutions manufacturer parts catalogs also optimizes the efficiency of design. I am very happy that we can draw a consistently positive conclusion after many years of cooperation with BOMAG. «



MARKUS POPPINGHUYS
BRANCH MANAGER ESSEN
CADENAS SOLUTIONS GMBH

COMPANY DESCRIPTIONS

BOMAG GmbH

BOMAG is a global leader in the field of compaction technology. Situated in Boppard and since 2005 part of the FAYAT Group, the corporation produces machines for soil, asphalt and waste compaction, as well as stabilizers, recyclers, tillers and pavers.

BOMAG has six subsidiaries in Germany and eleven independent subsidiaries. More than 500 vendors in over 120 countries assure worldwide distribution and service of BOMAG machines.

BOMAG in figures

- Cooperation with CADENAS: since 2009
- Installed standard and supplier parts: approx. 85 000
- Savings per newly created part: approx. 1.200 Euro
- Number of PARTsolutions workstations: 80 + 5 floating licenses

You find further information about the company at:

www.bomag.com/de



CADENAS GmbH

CADENAS is one of the leading software developer in the areas of Strategic Parts Management and parts reduction (PARTsolutions), as well as Electronic Product Catalogs (eCATALOGsolutions). With its customized software solutions, the company acts as a link between the component manufacturers and their products and the purchasers.

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With its 300 employees at 14 international subsidiaries, the name CADENAS (Hispanic: process chains) stands for success, creativity, consulting and process optimization since 1992.

As a trend setter and visionary, CADENAS has established many important trends and innovations:

- Search of CAD components by topology
- The similarity search for CAD parts which runs automatically in the background.
- CAD part search by sketch

You find further information about the company at:

www.cadenas.de

