



# TDMmessage

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## Editorial

### Exploit Unused Savings Potentials in Your Organization!

It's no secret that industrial enterprises are always looking for ways to reduce manufacturing costs. This frees funds for research and development. Only with innovative products can companies continue to grow and ensure their futures.

TDM's all-round tool management system brings efficiency to every aspect of production. What puts it ahead of the field: a database with both practical and feasible contents. In the past, many manufacturers hesitated to implement TDM because of the long-term time and effort of maintaining such a database.

But now there's good news for these companies: TDM's new data and graphic generator processes tool data faster and more easily than ever before while creating 2D and 3D graphic images to match. Above all, 3D graphics now permit full use of currently available simulations while showing points of interference.

Fast data entry with the TDM data and graphics generator vastly shortens the time between initial installation and commercial use of TDM. Now manufacturers can achieve lasting, effective streamlining much faster with TDM. Additional resources quickly materialize for innovations and growth, and that means a better future!



Dipl.- Ing. Jürgen Auer, President and CEO TDM Systems

## Successful TDM-User

### More Overview, Less Paper: Optimized Tool Organization at Kolbenschmidt-Pierburg

Production team members at Kolbenschmidt-Pierburg AG in Neckarsulm, Germany require more than 15,000 different tools to manufacture large-scale pistons. About 15% of these tools are specialized. In the past, the company's tool management system labored under an avalanche of paper work. Catalogues were created manually, and systematic control of the multitude of data, sketches and drawings was often difficult.

Now TDM has brought major improvement to the company's production of large-scale pistons. This improvement starts even before production when the NC tooling specialist enters systematic, practically oriented master data into TDM. In doing so, he takes advantage of data boxes provided by TDM. While inputting data, he can decide on the spot, for example, whether various tools already listed in the tool crib and used in production can be replaced by merging them into a single, intelligently designed tool.

As Mahmut Gülbahar, Project Director for production of large-scale pistons points out, existing tools can be classified into categories and groups, and suitable characteristics can be chosen only with logical, consistent concepts. And only then is optimum use of data possible in designing, NC-programming, presetting, and assembling tools.

It didn't take long for TDM's advantages to become apparent. It was clearest, says Gülbahar, in plant areas where tool data are called for often. Rapid location of tool data based on uniform characteristics has drastically reduced time requirements, especially for adjusting and assembling tools. Designers of special tools benefit as well: they rapidly find standardized components which can be put together to form special tools.

As Gülbahar emphasizes, the number of tools

in the crib has dropped by 25% within only two years. Key to this was the use of standard components for assembling specialized tools. Now the company in Neckarsulm looks forward to even more benefits with dimensionally accurate TDM drawings. These are created as data are stored, and will open the way for simulating solutions and finding points of interference.



Mahmut Gülbahar shows the TDM implementation at Kolbenschmidt-Pierburg in Neckarsulm, Germany.

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