



TDMmessage

No 11 - 05/2004

Editorial

New Dimensions in Tool Organization

In April of 2004 we introduced ourselves under our new name of TDM Systems GmbH. What was behind this change? Our new company name aims at highlighting the new position of TDM Systems GmbH within the Sandvik-Group. In future, we will function as a Center of Competence for the organization of tools and operating resources within the Sandvik Group. In appearing with this new name, we also wish to underscore our character as an international company. TDM V4 is now available in 10 different languages.

Above all, it is the users of TDM who benefit from our unique blend of characteristics and abilities: the confluence of different tool data management products results in an enormous pool of valuable know-how and experience. Innovations from various systems will continue in future to become a part of TDM and will increase both the ease of use and the functionality of TDM.

This issue of TDMmessage offers further proof of the energetic progress of our development: We report on page 3 about the new tool crib management system Hänel-TDM, on page 4 about the export of 3D-CAD data into the CATIA V5 System for simulation purposes. We look



Dipl.- Ing. Jürgen Auer is the Managing Director of TDM Systems GmbH

forward to contiuing our productive collaboration with you!

Successfull TDM-User

Rexroth Brings Clarity to Tool Tracking with TDMshopcontrol

Bosch Rexroth AG produces mobile hydraulic components in three shifts a day at its Augsburg plant. Cast or aluminum valve housings are processed completely on a single machine. On the whole, 10 processing centers are available for milling and drilling. Each machine has its own tool magazine, with room for 180 tools. Every day, an average of 3 tool changes, each involving 50-80 tools, must be carried out. Around 1400 complete tools must be kept in view and managed for every tool change. Bosch Rexroth has been using TDMshopcontrol in its Augsburg plant since mid-2003 for the optimization of tool changes and the preparation of complete tools. The management of all tools in circulation for the 10 processing centers can now be overseen by a single tool specialist. This employee receives information from the SAP system about coming orders. The production order for TDMshopcontrol is the tool list. The machine is then selected in TDMshopcontrol. Orders requiring setups or tool removals are then selected. The number of pieces to be cut is the loading list. It contains the tools which must be fed into the magazine. Complete tools which are already assembled and available are designated and can be taken over the crib, which is located near the machine. The rest of the tools must be assembled from individual components. TDMshopcontrol keeps a watchful eye on all tool movements as well as on stocks on hand and quantities in the crib and magazine areas. That minimizes the number of tools to be set up.

TDMshopcontrol also generates an unloading list which causes the designated magazine space to be brought automatically to the tool removal location at the processing center. This ensures the highest level of

reliability and accuracy. The tools in the loading list are measured, their actual data are taken over into TDM, and ToolOffset specifically controls and prepares further tool management. After the tool magazine has been updated, only a minimum of time is required to complete the tool setup. Targeted tool setup times are met, downtimes are avoided, and machines are kept running longer. TDMshopcontrol is respected by all employees, who gladly accept it as a member of the company.



With TDMshopcontrol, Dieter Schneider has no difficulty in managing 3 tool changes a day, each with 50 to 80 processing centers.

Contents

Bernhard Grossmann - Turning Ideas into Products	Page 2
Helga Reiser - Purchasing is an Interesting Job!	Page 2
TDM Systems and Hänel: A Cooperative Partnership	Page 2
Hänel-TDM: Making the Tool Crib Simpler and Easier to Manage	Page 3
TDM V4: Barcode Simplifies Use	Page 4
TDM and CATIA V5: The Faster Way to 3D-Simulation	Page 4
Upcoming Dates: Trade Shows, Training Courses	Page 4
TDM Releases	Page 4



our TDM-Tea

Bernhard Grossmann Training leads into projects

Bernhard Grossmann joined WALTER Informationssysteme GmbH in February 2000 and has been Director of TDM Software Development since January 2001 at TDM Systems GmbH in Tübingen.



Bernhard Grossmann directs ongoing development at TDM Systems GmbH.

After studying mechanical engineering, he started as a research assistant at the Institute for Control Systems Technology of Tooling and Production Machines at the University of Stuttgart. This was followed by comprehensive practical experience on the next run of his career ladder at SOF E Production Control Systems GmbH, where he was responsible for developing and supporting software for the control of flexible production systems. Above all, this helped him to acquire a vast technical familiarity with C programming, order entries and tooling, and the planning of production and material flows. His next position at E. Müller GmbH Co. G, a maker of tool presetting devices, equipped him with hands-on knowledge of image processing and tool presetting and dimensioning. As a result, he brings a wide range of experience and technical expertise to his present work in all areas of tool organization. Not only prospective and current customers but also his co-workers at TDM Systems GmbH always find in Bernhard Grossmann a competent contact partner for practically oriented, ongoing development of TDM software.

You can reach him in Tübingen under Telephone: 4 . 0 1. 4 2- 2
Fax: 4 . 0 1. 4 2- 0

Strong Partner

TDM and Hänel Cooperative Partnership

Representatives of the former WALTER Informationssysteme GmbH and Hänel GmbH Co. G signed a contract for joint development and marketing on October 8, 2003 in Tübingen. Those benefiting most from this agreement are the users of crib systems for tools and operating resources. From now on, they will receive from a single source both: mechanical systems such as vertical lift cribs and fully developed software for tool crib management. As Jürgen Auer, Managing Director of WALTER Informationssysteme GmbH in Tübingen pointed out at the contract signing ceremony, this cooperative venture meets the growing demand of users for comprehensive, practically-



oriented complete systems. As a result of this cooperation, all components of the tool crib systems carefully coordinated with one another - from the mechanical systems through control process and computers all the way to the management software. This cuts the time and work required for startup at the user's company to a minimum. In addition, it also ensures the highest degree of reliability from the very beginning in all functions of the crib systems. Needless to say, these agreements and the cooperative work with Hänel GmbH Co. G are continuing under TDM Systems GmbH.

our TDM-Tea

Helga Reiser Purchasing is an interesting job

Helga Reiser joined our team in Tübingen in 1991 and supports purchasing activities. She not only organizes the purchase of additional software such as ORACLE databases and AutoCAD modules but also the purchase of internally required work resources and aids from diskettes and paper all the way to vehicles for our field representatives. She acquired the qualifications for these tasks before joining us in her years of work as a self-employed businesswoman. In her free time, Helga Reiser keeps busy above all raising her two sons. She also likes music and enjoys playing the accordion and the organ. Weather allowing, she can often be



found on tour through the beautiful countryside around Tübingen. Helga Reiser organizes the purchase of software and work resources.

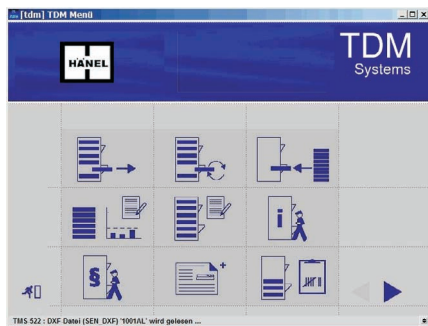
You can reach Helga Reiser under Telephone: 4 . 0 1. 4 2- 05
Fax: 4 . 0 1. 4 2- 0

Toda s nter ie

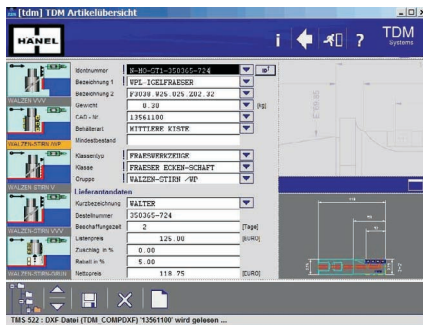
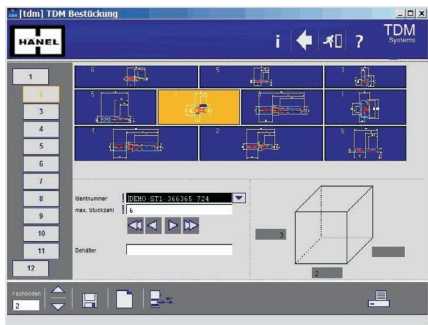
nel TDM Making the Tool Cri mpler an asier to Manage

We talked to Bernhard Grossmann, Director of Development at TDM Systems GmbH, about the tool crib management system Hänel-TDM and its advantages for production plants.

TDMMessage Mr rossmann what are the salient characteristics o the tool cri management system nel TDM in comparison to con entional so tware programs in this area

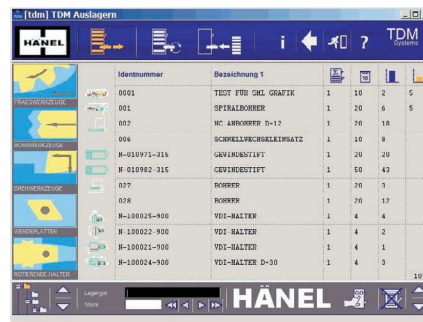


rossmann Hänel-TDM is the first software to integrate all functions and screen dialogs of TDM V4 directly into a tool crib, for instance in Hänel's ockomat vertical tool lift. This has the advantage that the user can continue to work with dialogs and input routines which are familiar to him from his work with TDM. That simplifies use and minimizes the time and effort required for training sessions and training courses...



TDMMessage Does that change the way o sing tool cri s

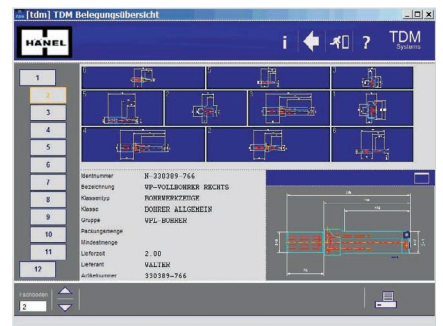
rossmann It improves it over existing operation systems for tool cribs this is most evident in the graphically designed user environment, combined with the use of a touch-screen, a keyboard, and a mouse according to the user's wishes. The self-explanatory graphics and icons on the screen guide the user in a dialog through the different



functions of the program, such as tool removal, tool storage in the crib, and defining crib locations or containers. This minimizes the risk of errors very considerably. And it also makes process of operating and using the tool crib much more reliable.

TDMMessage Does the nel TDM so tware ha e any other interesting nctions

rossmann A clear es to that. Hänel-TDM can be used not only for direct management of crib functions but also provides a comprehensive system for managing and organizing stocks on hand, booking processes, user names, and access rights. The crib user can activate many of the functions provided by TDM directly. These include, for example, the management of supplier data and articles, master data sheets,



and the ability to display and monitor current and minimum stocks the program even derives order suggestions from this data. One important advantage of the Hänel-TDM is that it displays not only dialog boxes but also the contents of data boxes - for example for parameters - in graphic form. In this way, the master data of the tools which are managed in the crib are also shown as tool graphics. What's more, the tools can also be structured in classes and groups in the same way familiar to users of TDM.

TDMMessage Many thanks Mr. Grossmann.



TDM Message

No 11 - 05/2004

TDM 4

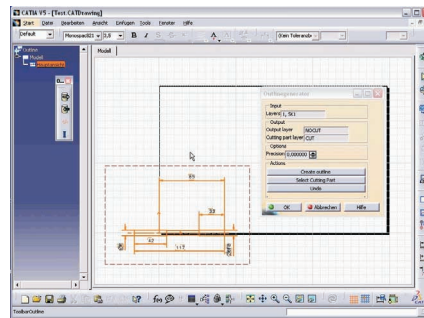
Barcode implies ease

TDM V4 contains an option for the management of software with the help of barcode readers. The employee uses a barcode reader to scan commands which are printed on a dialog sheet. On the basis of these barcode commands, TDM V4 automatically selects the corresponding menus and dialog boxes. It is no longer necessary for staff members to learn how to operate the tool management system: the major steps can be controlled via the barcode reader. In this manner, all important data which are managed by TDM V4 can be displayed. This includes, among other things, a display of the tool master data, the technology data, the 2D and 3D graphics, and inventories of tools on hand. Tools can of course also be entered into the books via barcode management. In order to keep access under control, it is also possible to print out user passes with the corresponding barcodes. The next issue of TDM Message will tell you more about the functions of the TDM V4-barcode module.

TDM partners

TDM and CATIA The gateway to 3D simulation

TDM Systems GmbH is now linked with the Software Community Program of Dassault Systèmes, Paris. On November 3, 2003 representatives of both companies signed an agreement to this



effect in Paris. Those who benefit most from this cooperation of both companies are users of the 3D-CAD-Software CATIA V5 and DE MIA. TDM Systems GmbH's contribution to this design software is its Tool Assembly Builder Module. In only four steps, this module makes it possible to create from drawings of tool components 3D-data for simulating processing and studying points of interference. The user takes over components from tools integrated into

TDM or those found in tool catalogues. Tool Assembly Builder then merges them into a complete tool. The drawing is then taken over as a D F-file into the 3D-CAD environment. Using the complex drawing the Software first creates a line drawing of the tool contours. Cutting and non-cutting areas are designated. Then the 3D-CAD-Software uses rotation of a 3D-data model to create the tools. This serves the purpose of displaying 3D-simulations and animations. This vastly minimizes the time and effort involved in the creation of 3D-simulations. Tool Assembly Builder contributes to shorter planning times for metal cutting projects and in this way also shortens the time from the idea to the final, mass-produced product.

For more information:
Dr. Heinz Fink
Telephone: 49 0 1.42- 0
E-Mail: heinz.fink@tdmsystems.com.

Conferences

Exhibitions

METAV, Düsseldorf	15.-16.10.2004
IMTS, Chicago	08.-15.09.2004
AMB, Stuttgart	14.-15.10.2004
Verktögs-Maskineri, Stockholm	1.-23.10.2004

TDM Training sessions

TDM Basis Training	28.-30.09.2004
	01.-08.10.2004
	08.-10.11.2004
Tool Crib Training	01.-02.10.2004
	03.-10.11.2004
	11.-12.11.2004
Form Generator	11.-13.10.2004
	21.-28.05.2004
TDM Systemuser	14.-15.10.2004
	15.-16.10.2004
TDMeasy	24.-25.11.2004

Further Information and registration by Fax:
49 0 1.42- 0 or via Internet
www.tdmsystems.com

TDM releases

Current TDM versions

TDM 4.0.0.2
TDM 2.4.0.2
TDMeasy 3.1.0.2
TDMshopscontrol 2.4.0.2
TDMconvert 3.0.1.4
TDMcontrol 3.1.0.4
TDMprocess 3.2.0.0
TDMwood 1.0.0.1
User-oriented
Classes Group Structure 3.1.0.0
Order Modul 3.1.0.0
TDM 2D 3D Generator 4.0.0.0
Barcode Modul 2.3.0.0
Device Management 2.4.0.1
Tool Crib Module 2.4.0.1
Management of Measuring Products 2.4.0.1
now-how-Database 3.0.0.5
Interface TPS elch 2.3.0.1
Interfaceoller MVIS II 2.2.0.4
Interface Catia V5 2.4.0.0
Interface Unigraphics 1.0.0.
Interface Vericut 2.4.0.0
TDMexcel Artikelpreise 2.2.0.0

Credits

Editor:
TDM Systems GmbH
Derendinger Straße 53
72072 Tübingen, Germany
Tel.: 49 0 1.42-2 1
Fax: 49 0 1.42- 0
E-Mail: bettina.heck@tdmsystems.com
www.tdmsystems.com

Responsible for contents:
Jürgen Auer

Editorial processing and layout:
Daniela Rudolf, Bettina Heck
TDM Systems GmbH
Konrad Mücke, m-a-c-h PR

TDM Message appears semiannually and can be subscribed to through TDM Systems GmbH.

TDM
systems