



PRODUCTIVITY MANAGEMENT

Precision at Work



TECHNOLOGY-ORIENTED TOOL MANAGEMENT

The technical requirements demanded of companies are increasing day by day. We at TCM help you to meet this challenge. By using the most powerful tools and technologies, TCM is a guarantee for the most efficient production possible. This is what we understand with Cutting Edge Productivity – because it is at the cutting edge that you earn your money – now and in the future.

CUTTING EDGE PRODUCTIVITY

**THERE IS A TOOL FOR SUCCESS –
WITH TCM INTERNATIONAL**



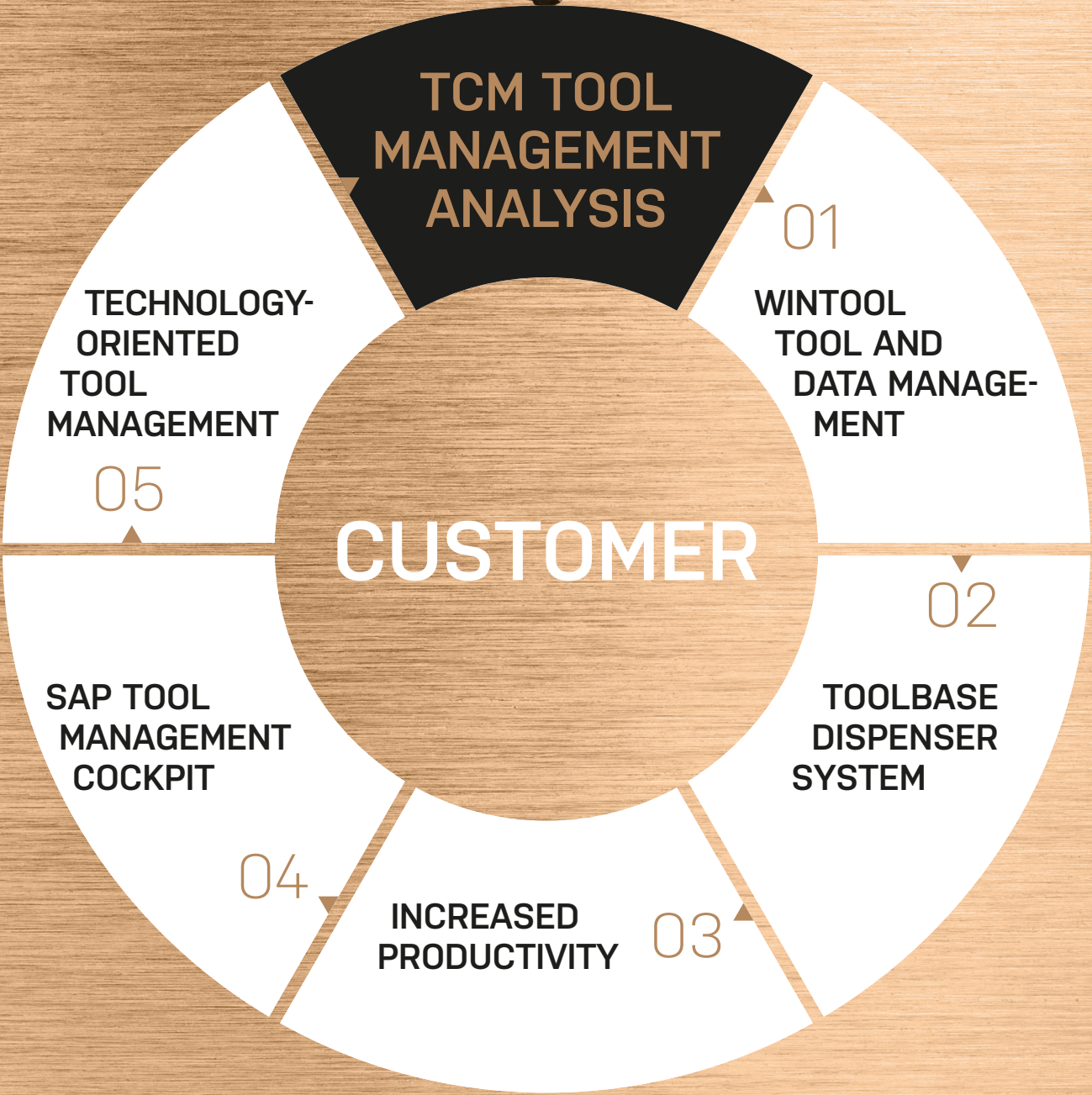
TCM makes your production efficient!

"Technology-oriented and manufacturer-independent Tool Management guarantees our customers long-term competitive machining and set-up processes."

Manfred Kainz
TCM International, CEO



**TOOL MANAGEMENT
MADE BY TCM**



PRECISION AT WORK

FOR THE SUCCESS OF OUR CUSTOMERS

THE TCM TOOL MANAGEMENT ANALYSIS

Discover the potential of your mechanical manufacturing in a 2-3 day workshop. Based on objectively determined savings potential, a custom-made implementation concept will be established.

► 01

WINTOOL TOOL AND DATA MANAGEMENT

Create transparency about existing and required tool components in your production. Using the WinTool brand tool management system ensures efficient data management.

► 02

TOOLBASE-DISPENSER SYSTEM

A Toolbase® organized tool assortment and a secure dispensing of resources of all kinds, for example, personal safety equipment such as goggles, gloves and clothes forms the basis of every economic production.

EDUCATION CENTER

Knowledge transfer for TCM Tool Managers and tool experts as well as the employees of TCM customers as the basis for professional TOOL MANAGEMENT.

► 03

INCREASED PRODUCTIVITY

Guaranteed cost reduction and sustainability: Increased productivity due to innovative machining concepts and a comprehensive process cost analysis.

► 04

SAP TOOL MANAGEMENT COCKPIT

Developed by TCM International:
All relevant information at a glance for the optimum control of the TOOL MANAGEMENT processes.

► 05

TECHNOLOGY-ORIENTED TOOL MANAGEMENT

Economic Value Creation and Sustainability for our customers. Technology-Oriented TOOL MANAGEMENT made by TCM International.

TOOL MANAGEMENT ANALYSIS

MAKE FULL USE OF TOOL POTENTIALS



Organization

- > Unique tool cycle
- > Transparency in stocks & costs
- > Optimum inventory levels
- > Clear key figures

Purchasing

- > "Best Price" system
- > Use of consignment warehouses
- > Advantageous framework agreements
- > Economical number of approved suppliers

Technology

- > Evaluation of current tool technology
- > Comparison to the state of the art
- > Integration of ongoing innovations
- > Complete manufacturer Independence
- > Correct cutting parameters
- > Optimal design of new product launches

Recognize improvement potential – exploit profit. That is efficient TOOL MANAGEMENT by TCM.



Demonstrate possibilities

With the TCM Tool Management Analysis we can determine your optimization potential. We not only raise the status quo, but also work out the opportunities for improvement in the areas of purchasing, organization and tool technology.

Evaluate & decide

These benchmark results provide a quick and comprehensive assessment of your potential for improvement. After two to three days, our TCM experts will give you an overview of possible approaches, new business models and development opportunities.

"Because of decades of worldwide Tool Management Experience we offer our customers comprehensive Know-how in the entire machining environment."

Markus Grud
CSO



01 Status quo

- > Situation analysis within the organization
- > Comparison to the market

02 TCM Analysis

- > Tool technologies
- > Tool volume & stock Levels
- > Data quality & system networking
- > Organization (processes)

03 Advantages

- > Guaranteed cost advantages
- > Integrated processes
- > Increased competitiveness

WINTOOL TOOL AND DATA MANAGEMENT

INTEGRATED SYSTEM FOR GREATER SUCCESS

01 ORDER IN PRODUCTION

WinTool is the fastest way to create a high-quality resource library for your company. This is a prerequisite so that planners, programmers, purchasing and machine operators can improve while working together efficiently and safely.

02 TOOL MODELS TRUE TO THE ORIGINAL

WinTool has developed the leading complete tool generator. It's child's play to assemble and name a new tool with multiple components and generate a dimensioned graphic with a precise 3D model. Everything interactive and CAM ready!

03 CAM INTEGRATION

For 20 years the core competence of WinTool. Directly in the CAM interface precise 3D tools can be found with cutting values and imported into the native environment. For the operation, automatic setup lists are created in WinTool and all files are archived with controlled release.

04 ONLY THE CORRECT PROGRAMS

For each CNC operation, WinTool manages all associated production data in the network. Program versions, instructions, setup lists and CAM files are all easily stored and remain findable, traceable and without confusion.

05 OPTIMAL PROVISIONING

For 20 years this has been the core competence of WinTool. Directly in the CAM surface precise 3D tools can be found with cutting values and imported into the native environment. For the operation, WinTool automatically creates setup lists, archives all files and provides controlled release.

06 MINIMAL SET-UP TIMES

Tool standardization and order-specific set-ups need to be organized properly. With WinTool, the complete tool cycle is managed and net lists are calculated for machines including an availability check.

07 LEAN RESOURCE STOCK

Resources and supplies are reliably managed with WinTool. Exact stocks and proofs of use are easily and semi-automatically monitored and articles are provided in just the right amount, at the right place and at the right time.

08 INDEPENDENT & INTEGRATIVE

WinTool is the only independent solution provider for a tool management and cooperates with all Manufacturers of tools, measuring devices, CAM systems etc. This assures you maintain your independence and flexibility towards your suppliers.

INCREASE YOUR COMPETITIVENESS

WinTool is the successful solution in tool and data management for the integrated management of tools, resources, machine programs, master data and processes.

Tool-Management for winners

With WinTool you simplify your production processes, reduce production costs and increase productivity. You benefit from shorter programming and set-up times, reduce stock and the variety of tools and work with organized and integrated manufacturing documentation.

Advantages:

- > Uniform master data
- > Greater machine availability
- > Increased setup efficiency
- > Higher programming efficiency
- > Transparency in production
- > Availability matched to production orders
- > Controlled CNC system environment
- > Project ROI <1 year



"With WinTool you are always on the winning side and avoid unplanned machine downtime, unproductive work steps, redundant data, tool overflow or dead stock. And the best: in less than a year, the Investment is amortized!"

Kevin R. Dworak
Product Manager WinTool



TOOLBASE DISPENSER SYSTEM

LESS CONSUMPTION, MORE PRECISE APPLICATION

01 ECONOMICAL

Optimized stock levels, no search times and quick access reduces costs and increases productivity.

02 FLEXIBLE

Individually configurable for any dispenser system application.

03 FAST

Easy operation, multilingual menu navigation, and individual product groups ensure quick access for all operators.

04 SECURE

Toolbase® combines the highest level of secure, efficient, automated access and order management.

05 CLEAR

A well-organized tool assortment, traceable withdrawals and current stock information provide the full overview in every area.





THE TOOL FOR TOOLS

Reduce your article consumption and create supply security and transparency for the resources you really need in your production environment. In addition, you successively reduce the diversity in your warehouse – this is Organization 4.0

Win-factor for productivity

Toolbase dispenser systems convince through their reliability and versatility. A tool assortment organized by Toolbase® and a secured output are the basics of every economic production.

Automated & optimized for efficiency

Automated processes assure tool availability and avoid expensive downtime. The mature, ERP-compatible Toolbase software ensures lean structures and efficient work processes.

Advantages:

- > Permanent availability of tools
- > Modular design (expandable & combinable)
- > Easy integration into the system landscape
- > Manufacturer independent
- > Computer-controlled access protection
- > Cost savings up to 40%



"Toolbase eliminates inaccuracies in stock and guarantees exact tracking of consumption data. In addition, Toolbase takes over the data maintenance, replacement and issues the articles for you. Toolbase avoids waste and greatly reduces search times by cost-intensive personnel. Furthermore, routine operations are automated and implemented with "point of use" provision – with the least distance and with the greatest transparency of all processes."

Stefan Schauer
Product Manager Toolbase

SAP TOOL MANAGEMENT COCKPIT

A COMPLETE OVERVIEW WITH A SINGLE SYSTEM

All relevant information is transparently presented on just a few screens for optimum control of the tool management processes – integrated into existing SAP systems.

Digital assistance system for Industry 4.0

The COCKPIT provides all essential data in order to ensure optimal control in terms of costs, consumption, supplied production volumes, stock levels, planned / actual analyses, etc. in a transparent and user-friendly manner.

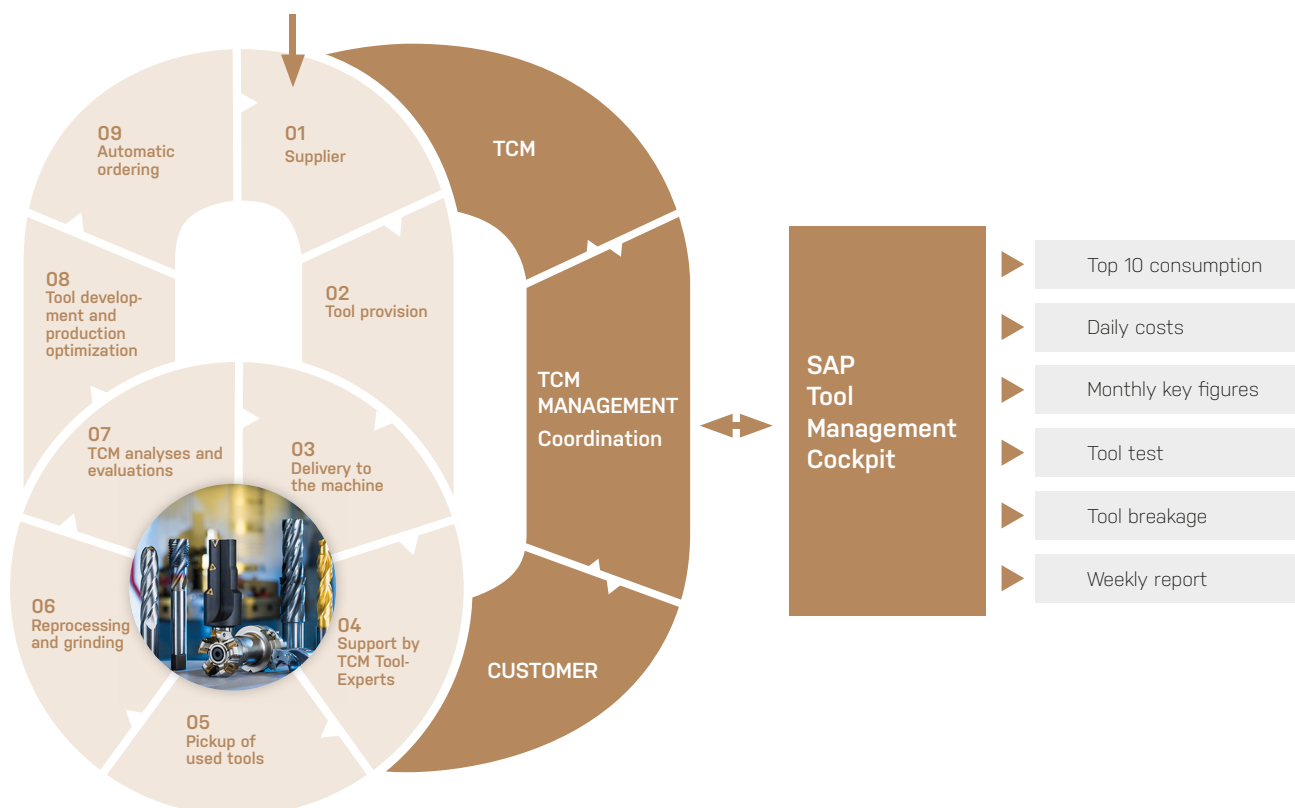
Full integration into the SAP world

The SAP Tool Management COCKPIT is based on the SAP standard modules of Materials Management, Controlling and Financial Accounting and is thus fully integrated into the SAP world: tools procurement or reprocessing, daily, weekly and monthly reports, top 10

consumption, tool tests etc. The Tool Manager can do this directly via the SAP Tool Management COCKPIT.

Advantages:

- > Compact customized information presentation
- > Easy booking on just a few SAP masks
- > Warehouse controlling at a glance
- > Rapid creation of reports
- > Integration into existing SAP subsystems
- > Quick evaluation of the „Important 6“
- > Daily updated cost knowledge per product
- > One-time, consistent master data management



TECHNOLOGY-ORIENTED TOOL MANAGEMENT



SUSTAINABLE VALUE CREATION MADE EASY

With its process-oriented products and services, TCM International guarantees success through the entire value chain of your production.

The leading edge that pays

TCM's technology-oriented tool management guarantees customers a leading edge through technology. This advantage results from both the interplay of continuous process optimization and the competent support provided by our tool experts, as well as from the use of the best tools available on the international market.

To achieve this, TCM offers a modular service model with 6 levels:

01
LEVEL

- Tool acquisition

02
LEVEL

- Tool acquisition
- grinding

03
LEVEL

- Tool acquisition
- Toolbase Dispenser-System
- grinding

04
LEVEL

- Complete TCM TOOL MANAGEMENT

05
LEVEL

- Complete TCM TOOL MANAGEMENT
- Billing by cost per unit

06
LEVEL

- Complete TCM TOOL MANAGEMENT
- Guaranteed productivity increase through innovative machining concepts

Advantages:

- > Tailored solution through TCM tool management analysis
- > Guaranteed, measurable cost savings via clear key figures
- > Less administration - just one contact person
- > Manufacturer independence ensures innovation
- > No capital tied up by storage costs
- > Productivity-oriented business model
- > Stable processes through many years of experience
- > Increased competitiveness



„TCM customers benefit from TCM's ability to keep up to date with international trends and innovations as a manufacturer-independent technology partner, as well as its access to skilled tool manufacturers, their products, solutions and innovations worldwide.“

Markus Temmel
Managing Director

TOOL GRINDING & TRADE

NR. 1 FOR TOOL SUPPLY

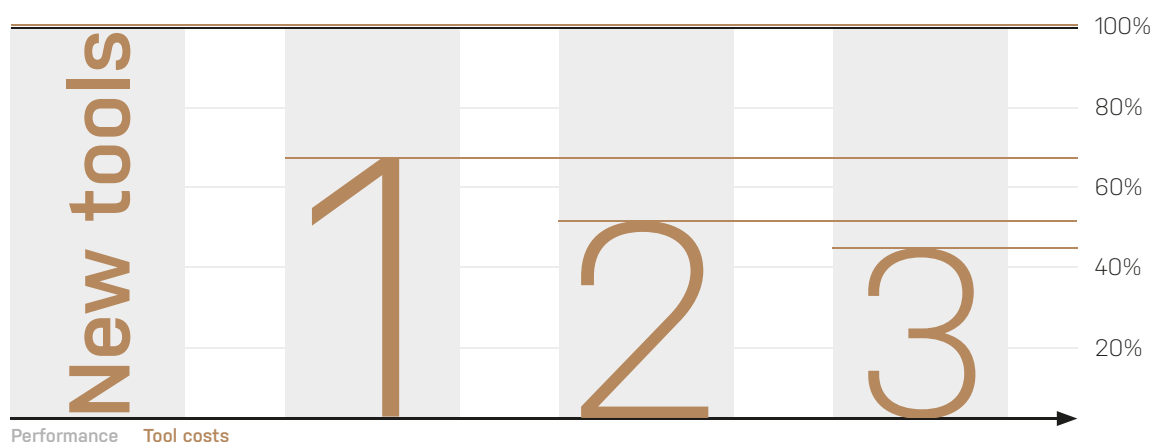
TCM is your first address for supplying tools. For over 25 years, we have been providing tools to customers in the field of machining production. In addition to the Austrian market, we also serve Slovenia, Croatia and Poland with tools for machining production.

Make tools perform again

The high-precision and multiple regrinding of all cutting tools under Tool Management was from the beginning for TCM, one of the most important factors for reducing tool costs. To this end TCM operates several grinding centers worldwide, equipped with modern 5-axis CNC grinding machines as well state-of-the-art tool measuring devices. This is how we permanently assure our customers absolutely consistent quality in their production.

Good tools mean more productivity

TCM constructs, grinds and continuously coats special tools to increase the productivity of our customers. Using cybergrinding technology, tools can be presented and optimized on the computer right after programming. Many of these tools, in combination with the TCM construction, TCM grinding center and our own in-house machining laboratory are developed, tested and optimized until they are ready for series production.





"The regrinding of the tools follows the original regrinding instructions of the manufacturer or according to the TCM regrinding instructions issued by the respective TCM tool expert. We guarantee that compared with new tools under use of the current cutting values the processed tools will have the same service lives and processing results."

Oswald Scheibenbauer
Manager Engineering



Six separate grinding centers

TCM International operates service centers in the following countries. These service centers also provide, besides the TCM Tool Managements, external customers with cutting tools, services and consulting in all areas of machining technology and process optimization.

- > Austria
- > Germany
- > Luxembourg
- > Hungary
- > Poland
- > China

Cool Grind – patented grinding disc technology by TCM

TCM was instrumental in the development of internally cooled grinding discs (patented system Cool Grind). These novel grinding discs reduce the grinding temperature and also lead to a significant improvement in the grinded surfaces. This and the ongoing improvement of the grinding disc technology enable our grinding experts to always reproduce optimal cutting quality. In addition, it should be mentioned that gearing and broaching tools also belong to the TCM regrinding portfolio like the reconditioning of diamond tools.

"TCM also invests in the important area of cutting edge rounding and deburring of the tool cutting edge. These processes are carried out after the grinding of the tools and significantly influence the service life in the process. At the final, individually tailored re-coating of the tools, TCM works in close cooperation with the market leaders in this area."

Oswald Scheibenbauer
Manager Engineering

PRODUCTIVITY MANAGEMENT



TCM International
Tool Consulting & Management GmbH
Technologiepark 3, 8510 Stainz, AUSTRIA
T +43 3463 600 90 320
F +43 3463 600 90 324
office@tcm-international.com
www.tcm-international.com