Flexible. Professional. Sustainable.
INCREASED PERFORMANCE THANKS TO OPTIMISED ADMINISTRATION PROCESSES IN TOOL MANAGEMENT

THE GUHRING TM-SYSTEM

SYSTEM CONFIGURATION FROM 3
PROGRAM FROM 4
SOFTWARE FROM 6

OUR CUSTOMERS

TM CUSTOMERS FROM 8

PRODUCT VARIATIONS

TM 326 FROM 16
TM 426 FROM 20
TM 526 FROM 24
TM additional storage systems FROM 28

"Guhring tool dispensing systems increase economic efficiency and operating efficiency for any size of company."

Guhring’s TM 326, TM 426 and TM 526 tool dispensing systems optimise your tool storage and your tool management. Gain more security for your tool stock and more transparency for your tool management!

OUR CUSTOMERS CONFIRM:

- 10 % less tooling costs
- 1 hour less administration effort per day
- 14 % less machine down-time
- 24 hours controlled tool availability

QUESTIONING GUHRING CUSTOMERS

-10 %  -1 HOUR  -14%

COST  TIME SAVING  DOWN-TIME
Guhring’s tool dispensing systems send reports to the materials management, the purchasing department, controlling and management and to the tool management.

The Guhring software can be linked to all enterprise resource planning and IT systems.

External systems such as paternosters or lift systems can be controlled and managed directly via an interface.

By integrating the software into the existing infrastructure, the GTMS can further serve as a research tool for work planning, design and purchasing.
If required, the GTMS triggers ordering suggestions and co-ordinates delivery and re-grind services.

Thanks to a co-ordinated delivery and re-grind service all production relevant working materials and tools can be optimally and punctually made available.

With the assistance of Guhring's TM software (GTMS) it is also possible to completely automate the procurement process for tools.
BUILT-IN INTELLIGENCE – GUHRING’S GTMS TOOL MANAGEMENT SOFTWARE

All Guhring tool dispensing systems are controlled by the user-friendly GTMS. It allows the simple, quick and intuitive operation via the integrated touch-screen or an external reading device. At the same time it documents all relevant movement data of stock levels, triggers ordering suggestions and enables evaluations to different criteria.

The comprehensive and detailed reporting provides the best possible transparency of your tool stock and tool consumption and in addition enables an accurate cost allocation. Furthermore, interfaces enable the connection to various product management systems as well as an on-line link to customers via automated ordering processes.

CUSTOMER ADVANTAGES AT A GLANCE

- re-traceability of processes
- considerable time saving in tool management
- accurate consumption analyses to different criteria for example tool consumption per component, per machine or per cost centre
- central data base
- nom./act. cost comparisons at the push of a button
- form printing with barcode individually adapted to requirements
- management of drawings
- supplier evaluations
- management of measuring equipment
- individual solutions can be programmed according to customer requirements
- linking to SAP, TDM, Coscom, BM, Baan, Infor, Abas etc. via corresponding interfaces possible on request
BUILT-IN INTELLIGENCE – GUHRING’S GTMS TOOL MANAGEMENT SOFTWARE

THE ARTICLE DATA BASE – THE CORE OF GTMS

MACHINE DOWN-TIME MANAGEMENT MODULE – PREVENT MACHINE DOWN-TIME

ORDER RECORDING MODULE – PLANNING FROM A-Z

WEAR RECORDING MODULE – TOOL PERFORMANCE AT A GLANCE

PARTS LIST MANAGEMENT MODULE

MACHINE DOWN-TIME MANAGEMENT MODULE – PREVENT MACHINE DOWN-TIME

ORDER RECORDING MODULE – PLANNING FROM A-Z

WEAR RECORDING MODULE – TOOL PERFORMANCE AT A GLANCE

PARTS LIST MANAGEMENT MODULE
COMBINING GUHRING’S FLEXIBLE TOOL DISPENSING SYSTEMS

The three tool dispensing systems TM 326, TM 426 and TM 526 offer flexible possibilities for made-to-measure tool storage. According to demand and size of company there is a choice between different levels of automation. Individual dispensing possibilities such as drawers or spiral systems can be chosen.

Guhring’s tool dispensing system is entirely adapted to the individual requirements of the customer and his business. This way the customer can utilise the possibilities! Numerous satisfied customers also confirm this. Detailed information regarding Guhring’s individual tool dispensing systems can be found from page 16 onwards in this brochure.

Scholz GmbH, Neuhaus-Schierschnitz: Finished in the company colour, Guhring’s dispensing system reflects the corporate design of the Scholz GmbH.
Norbert Kempf CNC Technik GmbH has specialised in the manufacture of demanding, multi-axis machined components and assemblies for the hydraulic, pneumatic, construction machine and automotive industries as well as for machine pallets especially for re-fitting flexible manufacturing systems and pallet stations. Thanks to the application of a Guhring TM tool dispensing system Kempf were able to reduce tooling costs by approximately 20 %. Managing director Stefan Kempf puts this down to process optimisations on the one hand and to the optimal tool availability on the other: “The TM tool dispensing system is absolutely economical. The saving of tooling costs and the process optimisations are a good balance to the investment costs.”

**ADVANTAGES**

- tooling costs reduced by 20 %
- optimised processes in the area of tool storage and tool management

At the Robert Bosch plant in Nuremberg, Guhring’s TM tool dispensing systems for the manufacture of injection systems have optimised the tool management. Andreas Stocker, production planner for the tool supply at Robert Bosch, Gasoline Systems in Nuremberg, is thrilled with the unlimited tool availability during multi-shift operation, the optimal cost transparency and the comprehensive evaluation possibilities of Guhring’s GTMS Tool Management Software. In addition, he values the customer friendly flexibility of Guhring that has enabled many individual hardware and software adaptations to the special processes in the large volume production at Bosch.

**ADVANTAGES**

- unlimited tool availability
- optimal cost transparency
- comprehensive evaluation possibilities
- individual adaption of hardware and software to customer requirements
SATISFIED CUSTOMERS – OUR BEST REFERENCE

Airbus Helicopters, Donauwörth

“Tool selection errors are practically not possible the same as uncontrolled tool withdrawals.”

Accuracy, safety and reliability have absolute priority in the aviation industry – for the end product and also in manufacturing. To ensure the correct tools are applied Airbus Helicopters rely on Guhring’s TM tool dispensing systems and particularly on Guhring’s GTMS tool management software. They guarantee maximum security and reliability for tool applications and for stock control as well as re-ordering.

ADVANTAGES

• no tool selection errors
• no uncontrolled tool withdrawals
• diverse combination possibilities of the various modules
• perfect adaption of storage area to the stocked tools
• perfect adaption of storage area to the stocked tools
• optimal utilisation of the available space
CONTROLLED WITHDRAWAL FOR MORE TRANSPARENCY

Optimal storage, for all types of consumable articles
At the drive forum of Volkswagen’s Kassel plant three TM tool dispensing systems in different manufacturing areas ensure 100 % availability of machine replacement parts and consumables. Dirk Muster, drive forum tool management, especially appreciates the simple handling of the systems, that also control and manage paternosters and storage systems as well as the problem-free integration into the existing VW infrastructure.

**ADVANTAGES**

- controlled management of the stored stocks
- complete cost control
- 100 % availability
- simple handling
- seamless integration into the existing VW infrastructure

**SATISFIED CUSTOMERS – OUR BEST REFERENCE**

*Volkswagen AG, Kassel plant, drive forum*

“Guhring's TM tool dispensing systems are perfectly integrated into VW’s infrastructure.”
SATISFIED CUSTOMERS – OUR BEST REFERENCE

Patrice GOURHAND
Coordinateur Technique Amélioration
A400M

‘Considerable time saving and reliable search/availability of tools and C-products for the person withdrawing.’
At AIRBUS locations in Toulouse, Saint-Nazaire and Broughton Guhring tool vending systems enable the controlled dispensing of cutting tools and C-products. The varying product range requires an individual and modular design of the complete system. Here, the entire Guhring vending machine range is deployed.

The disposition is processed via interfaces and SAP. Authorised personnel log-on to the vending machine via RFID chip card system. Consequently the vending machines are perfectly integrated into the AIRBUS network and provide optimal availability of products.

Important for the customer was clear cost transparency for all general consumption and for production lines (A350/A400M).

A decisive factor for Airbus in choosing the Guhring system was the time saving gained by the central storage of products. Weekly reports enable AIRBUS to evaluate the complete logistical concept.
TM 326
THE BASIC VERSION WITH AN INFINITE AMOUNT OF POSSIBILITIES

Electronically controlled, modular and extendable
Design and dimensions

TM 326 BASIC UNIT

EQUIPMENT:

- electronically locking dispensing system in sturdy sheet steel construction
- manually actuated drawers with full pull-out (load capacity per drawer max. 200 kg)
- individual drawer heights and compartment options
- Effective height 900 mm
- individual compartment material for drawers
- Guhring tool management software (GTMS)
- PC with Microsoft operating system Windows 8
- scanner
- open, multi-supplier capable system
- control function can also be utilised for further storage systems (TM 426, TM 526)
- recommended minimum distance to wall 0.6 m

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TM 326 EXTENSION UNIT

EQUIPMENT:

- electronically locking dispensing system in sturdy sheet steel construction
- manually actuated drawers with full pull-out (load capacity per drawer max. 200 kg)
- individual drawer heights
- individual compartment material for drawers

<table>
<thead>
<tr>
<th>Height</th>
<th>1100 mm</th>
<th>1300 mm</th>
<th>1500 mm</th>
</tr>
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<td>Effective height</td>
<td>900 mm</td>
<td>1100 mm</td>
<td>1300 mm</td>
</tr>
</tbody>
</table>
TM 326
THE BASIC VERSION WITH AN INFINITE AMOUNT OF POSSIBILITIES

AVAILABLE DRAWERS WITH ELECTRONICALLY LOCKING STORAGE AREAS
Heights: 75 / 100 / 150 / 200 / 250 mm

<table>
<thead>
<tr>
<th>Fittings per drawer</th>
<th>Compartment inside dimensions width x depth</th>
<th>Partition fitting width x depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>48</td>
<td>109 mm x 75 mm</td>
<td>8 x 6</td>
</tr>
<tr>
<td>40</td>
<td>109 mm x 95 mm</td>
<td>8 x 5</td>
</tr>
<tr>
<td>32</td>
<td>109 mm x 125 mm</td>
<td>8 x 4</td>
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<tr>
<td>36</td>
<td>146 mm x 75 mm</td>
<td>6 x 6</td>
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<tr>
<td>24</td>
<td>146 mm x 125 mm</td>
<td>6 x 4</td>
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<tr>
<td>24</td>
<td>220 mm x 75 mm</td>
<td>4 x 6</td>
</tr>
<tr>
<td>18</td>
<td>146 mm x 175 mm</td>
<td>6 x 3</td>
</tr>
<tr>
<td>20</td>
<td>220 mm x 95 mm</td>
<td>4 x 5</td>
</tr>
<tr>
<td>16</td>
<td>220 mm x 125 mm</td>
<td>4 x 4</td>
</tr>
<tr>
<td>12</td>
<td>440 mm x 75 mm</td>
<td>2 x 6</td>
</tr>
<tr>
<td>12</td>
<td>225 mm x 200 mm</td>
<td>3 x 4</td>
</tr>
<tr>
<td>8</td>
<td>440 mm x 125 mm</td>
<td>2 x 4</td>
</tr>
<tr>
<td>4</td>
<td>440 mm x 259 mm</td>
<td>2 x 2</td>
</tr>
</tbody>
</table>

STANDARD DRAWERS
Internal dimension: 600 x 900 mm
Heights: 75 mm / 100 mm / 125 mm / 150 mm / 200 mm / 250 mm / 300 mm / 400 mm
Maximum load per drawer: 200 kg
Partitioning material:
- Anti-slip mat
- Recess sets
- Compartment inserts
- Partitions
- Various tool holder systems

DRAWERS WITH SPIRAL INSERT
Drawer height: 150 mm
Spiral insert for a maximum of 10 spirals
Additional requirement:
- Withdrawal drawer with withdrawal shaft and 3 manually lockable compartments
- Drawer height: 150 mm

Other:
- Forklift base with removable front panel
- Operating voltage: 230 V / 50 Hz
- Special colours to RAL standard on request
TM 426
THE SPIRAL SYSTEM FOR QUICK DISPENSING OF TOOLS

Large storage space, clearly managed
Design and dimensions

TM 426 BASIC UNIT
EQUIPMENT:

• 3 manual storage drawers
• Guhring tool management software (GTMS)
• PC with Microsoft operating system Windows 8
• scanner
• open, multi-supplier capable system
• control function can also be utilised for further storage systems (TM 326, TM 526)
• recommended minimum distance to wall 0.6 m

TM 426 EXTENSION UNIT
EQUIPMENT

• withdrawal to Fifo principle
• 6 to 7 spiral levels with 10 spiral places each
• goods dispensed below
• spiral design configurable according to the product range

TM 426 L EXTENSION UNIT
EQUIPMENT

• withdrawal to Fifo principle
• 7 to 8 spiral levels with 10 spiral places each
• goods dispensed above
• integrated tool transport lift
GUHRING’s TM 426 tool dispensing system is the perfect solution for storing a large number of compact tools in a very small space. As in the TM 426’s spiral systems tools are stored in an extremely space-saving format and at the same time very securely. The dispensing of the tools is via a tool dispenser.

### SPECIAL FEATURES

- Flexible composition of different spiral sizes (dependant on size of outer packaging)
- Secure storage and management of compact tools
- Expandable at any time with additional extension units
- Installation of lift systems for the collection of products possible (tool dispensed above)
- Control function can also be utilised for other storage systems (TM 326, TM 526)
SPIRAL OPTIONS:
9 / 13 / 15 / 21 / 24 / 31

PARTITIONING AVAILABLE FOR THE OPTIMAL MANAGING OF PRODUCTS ON REQUEST

OTHER:
Forklift base with removable front panel
Operating voltage: 230 V / 50 Hz
Special colours to RAL standard on request
TM 526
DRAWER SYSTEM
WITH 100% DISPENSING CONTROL

TM 526
Access limited electronically, transparent tool movement
Design and dimensions

TM 526 BASIC UNIT
EQUIPMENT

- electronically locking dispensing system in sturdy sheet steel construction
- manually actuated drawers with electronically limited pull-out (load capacity per drawer max. 20 kg)
- individual drawer heights and widths
- Guhring tool management software (GTMS)
- PC with Microsoft operating system Windows 8
- scanner
- open, multi-supplier capable system
- control function can also be utilised for further storage systems (TM 326, TM 426)
- recommended minimum distance to wall 1.0 m

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TM 526 EXTENSION UNIT
EQUIPMENT

- two different build heights available 1300 mm / 1500 mm
- electronically locking dispensing system in sturdy sheet steel construction
- manually actuated drawers with electronically limited pull-out (load capacity per drawer max. 20 kg)
- individual drawer heights and widths

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TM 526 EXTENSION UNIT
LOCKER EQUIPMENT

- locker options with 8 or 16 lockers
  8-locker 360 x 340 x 590
  16-locker 360 x 150 x 590
TM 526
DRAWER SYSTEM WITH 100% DISPENSING CONTROL

With Guhring’s TM 526 tool dispensing system you have complete control over the withdrawal of goods. The drawers of the TM 526 can be opened in a controlled grid pattern for withdrawal. Logging the withdrawal is cost centre related for maximum transparency.

SPECIAL FEATURES

- flexible composition of different drawer heights and widths
- open, multi-supplier capable system
- secure storage and management of tools, measuring equipment and inspection instruments, assembly tools and consumables
- expandable at any time with additional extension units
- control function can also be utilised for other storage systems (TM 326, TM 426)

DRAWER OPTIONS:
The drawer design is variable and adapted to customer requirements

- Heights: 42 / 60 / 113 / 186 / 258 mm
- Widths: 50 mm / 8 drawers per level
  110 mm / 5 drawers per level
  150 mm / 4 drawers per level
  215 mm / 3 drawers per level
  350 mm / 2 drawers per level

OTHER:
Forklift base with removable front panel
Operating voltage: 230 V / 50 Hz
Special colours to RAL standard on request
TM
ADDITIONAL STORAGE SYSTEMS
can be combined with all Guhring TM dispensing systems

TM DOUBLE DOOR SYSTEM
Electronically locking double door system
Controlled by GTMS software

DESIGN OPTIONS
• double door cabinet without viewing window (4/5 shelves)
• double door cabinet with viewing window (4/5 shelves)
• shelf loading: 200 kg
• electronic locking via Guhring GTMS
• option available for hazardous goods
TM VERTICAL PULLOUT SYSTEM

Vertical pullout with electronically controlled pullouts

DESIGN OPTIONS

- 4 x 300 mm
- 6 x 200 mm
- 8 x 150 mm
- robust construction thanks to active pullout rollers
- individual partitioning material
  - tool holders
  - perforated sheet metal wall
  - storage tray
  - space for extra length tools
- load capacity per pullout: 300kg
- direct access protection
- pullouts with electronic locking via Guhring GTMS
Tool Management
Powered by

A suitable solution for every customer.