TSC Tool STOCK Center

Intelligent Tool Depot Systems
Intelligent Tool Management

Chip – by Chip – to the Top
Higher performance due to optimised administration processes

The Tool Stock Center TSC mini, TSC midi and TSC maxi optimise your tool management and storage. Gain increased security of your tool stock and transparency in your tool management!

The three tool dispensing systems TSC mini, TSC midi and TSC maxi offer flexible possibilities for made-to-measure tool storage. According to requirements and size of company there is a choice of various degrees of automation. Individual dispensing possibilities such as drawers or spiral systems are available options.

On request these tool dispensing systems can send regular reports to the material management, purchasing and controlling departments as well as to the management and the tool management. Order process, delivery and regrind service can be fully automated. This guarantees an optimal and on-time supply of all production-relevant material and tools for production.

The software can be connected to all material management and IT systems. Also, there is the possibility of controlling and managing third party systems such as paternoster or lift systems. By integrating the software in the existing infrastructure access is also possible at any time by the planning, manufacturing and purchasing departments.
The TSC mini is an electronically controlled, modular extendable system with all functionalities of the TSC Software. Electronically locked drawers enable controlled withdrawal. The height and segmentation of the drawers can be adapted to customer requirements.

The TSC midi provides full control of tool withdrawal. TSC midi drawers open only so far in increments until the previously selected quantity of tools can be withdrawn. Booking of withdrawals is cost centre related for maximum transparency.

The TSC maxi is the perfect solution for storing large quantities of compact tools in the smallest of spaces. In the spiral systems of TSC maxi, tools are stored in an extremely space-saving manner and at the same time absolutely securely. Selected tools are released via lift system.

TSC Software
The TSC mini is an electronically controlled, modular extendable system with all functionalities of the TSC Software. Electronically locked drawers enable controlled withdrawal. The height and segmentation of the drawers can be adapted to customer requirements.
TSC mini - Options and dimensions

Base unit

- electronically locking dispensing system in strong steel construction
- manually actuated fully extendable drawers (load bearing capacity max. 200 kg per drawer)
- individual drawer heights
- dividers for individual drawer segmentation
- TSC Software
- PC incl. MS Windows operating system
- barcode scanner
- open system, also for third-party items
- control function can also be utilised for extension systems (TSC maxi, TSC midi)
- lift truck base with removable front cover
- operating voltage: 230 V / 50 Hz
- special colours to RAL standard on request

Additional unit

- electronically locking dispensing system made of robust sheet steel
- manually actuated fully extendable drawers (load bearing capacity max. 200 kg per drawer)
- individual drawer heights
- dividers for individual drawer segmentation
- available in three different heights 1100 mm / 1300 mm / 1500 mm

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

available partitioning material:
- anti-slip mat
- recess sets
- insert boxes
- partition walls
- various tool holder systems

Drawers with spiral insert

drawer height: 150 mm
spiral insert for maximum 10 spirals

additional requirement:
Withdrawal drawer with dispensing shaft and 3 manually lockable compartments, drawer height: 150 mm

<table>
<thead>
<tr>
<th>Comp. per drawer</th>
<th>Int. dim. compartment width x depth</th>
<th>Comp. partitioning width x depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>440 mm x 259 mm</td>
<td>2 x 2</td>
</tr>
<tr>
<td>8</td>
<td>440 mm x 125 mm</td>
<td>2 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>16</td>
<td>220 mm x 125 mm</td>
<td>4 x 4</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>24</td>
<td>146 mm x 125 mm</td>
<td>6 x 4</td>
</tr>
<tr>
<td>24</td>
<td>220 mm x 75 mm</td>
<td>4 x 6</td>
</tr>
<tr>
<td>32</td>
<td>109 mm x 125 mm</td>
<td>8 x 4</td>
</tr>
<tr>
<td>36</td>
<td>146 mm x 75 mm</td>
<td>6 x 6</td>
</tr>
<tr>
<td>40</td>
<td>109 mm x 95 mm</td>
<td>8 x 5</td>
</tr>
<tr>
<td>48</td>
<td>109 mm x 75 mm</td>
<td>8 x 6</td>
</tr>
</tbody>
</table>
First-class, well-established products

In the search for a competent solution to manage and organise cutting tools, Goldammer Wasserfuhr Stahl GmbH, Hückeswagen approached Secato Werkzeugverkaufs GmbH, Düsseldorf, from which the company had already acquired cutting tools in the past. When making the decision on a suitable system, Secato field representative Andreas Reuber provided active support. Especially his experience in planning and managing tools from various manufacturers made a positive impression on the customer: Finally, the choice fell on the Tool Depot System from STOCK (TSC).

The benefits of the TSC fully meet the requirements of Goldammer Wasserfuhr Stahl GmbH. They include multiple supplier capability, quick and simple operation thanks to touchscreen, scanner and own barcoding, direct service by the Secato field service as well as detailed and comprehensive advice and specification discussions on the premises of Goldammer Wasserfuhr Stahl involving the support person from R.STOCK AG and all participants.

Modular design

Since the chosen TSC Mini was installed and put into operation in July 2012, the number of managed tools has grown consistently: More and more new tool groups have been added to the data base. A great variety of other applications is constantly being realised and installed “in house” such as the inclusion of grinding equipment with all the necessary management and control data. By mid 2013 the cabinet had already reached its capacity limits. However, this was not a problem: In the spring of 2014 the desperately needed extension unit was put into operation.

Thanks to the modular design and individual add-on system, every STOCK TSC user can individually supplement and expand their base unit with self-configuration of the extension modules. Goldammer Wasserfuhr Stahl GmbH, a currently rapidly expanding company, is therefore optimally prepared for future extensions.

Long-time crankshaft and machine component specialist: Since the 60s the Goldammer Wasserfuhr Stahl GmbH, Hückeswagen, manufactures forgings, crankshafts and machine components at short notice and accurately to customer requirements.

Info: www.gw-stahl.de
For in excess of 140 years H. Büsche GmbH & Co. KG has developed and manufactured high-quality curtain rails, tie backs and decorative hooks, hat-, coat- and towel hooks plus stair rod brackets. The successful company faces the challenges of the market and can quickly react to changing demands. Therefore, Büsche is a competent and reliable partner of the specialised trade – naturally “Made in Germany”.

Local trading partners

The NAUMANN & BRUNE Werkzeug- und Maschinen Verkaufs GmbH company in Lüdenscheid offers the tool and mould manufacturers in the Sauerland region and in the Märkischer Kreis region short delivery routes thanks to the central location of its warehouse. The often regionally rooted customers also value the quality and experience as well as the exceptional service of the tradition-steeped trading firm. At the South-Westphalian Technology Exhibition in Lüdenscheid (SWTAL) NAUMANN & BRUNE regularly presents product innovations and services all around the delivery programme as well as the co-operation with suppliers.

Individual configuration

At SWTAL 2011 several employees of H. Büsche GmbH & Co. KG, Neuenrade, paid special attention to the STOCK TSC Mini being presented there by NAUMANN & BRUNE. The Tool Management completely convinced those interested.

In order to be able to apply the STOCK TSC Mini customer orientated, following the presentation the specification sheet was produced and finally the individual configuration to meet the requirements of the company was carried out on the Büsche premises. Since mid 2012 the STOCK TSC Mini is in the production hall of the company in Neuenrade and simplifies the day-to-day re-grind, multiple supplier and tool management for the employees.
The TSC midi provides full control of tool withdrawal. TSC midi drawers open only so far in increments until the previously selected quantity of tools can be withdrawn. Booking of withdrawals is cost centre related for maximum transparency.

**Drawer options**

Drawer layout is variable and can therefore be adapted to customer requirements.

Possible effective heights: 42 / 60 / 113 / 186 / 258 mm

Possible effective 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
TSC midi - Options and dimensions

Base unit

- electronically locking dispensing system in strong steel construction
- manually actuated drawers with electronically limited pull-out (load bearing capacity max. 20 kg per drawer)
- individual drawer heights and widths
- TSC Software
- PC incl. MS Windows operating system
- barcode canner
- open system, also for third-party products
- control function can also be utilised for extension systems (TSC mini, TSC maxi)
- lift truck base with removable front cover
- operating voltage: 230 V / 50 Hz
- special colours to RAL standard on request

Extension unit drawers

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

Extension unit locking compartment

- available with 8 or 16 locking compartments
- 8-compartments 360x340x590 (WxHxD)
- 16-compartments 360x150x590 (WxHxD)
References

Regional contact partner

For more than a decade specialized trade partner ATOS in the Allgäu region has been established as an expert for the metal-working industry and trade. As a full-range provider guarantees its customers an optimal price-performance-ratio. The system supplier offers a product range of the highest quality. The TSC-systems provide excellent support to ATOS in the daily contact with customers.

Efficient working

At the headquarters of PFEIFER Central Administration in Memmingen ATOS in cooperation with two in-house experts have installed a Tool Depot System. The Tool STOCK Center makes it easier for employees to work efficiently in the planning and tool management departments. In Meanwhile the installed base and extension units are well stocked – an extension to the system has not been ruled out.

Under the motto “We apply technology” the PFEIFER company group in the cable, lifting and construction technology ranks as one of the leading companies in Europe. The group consists of numerous companies in Germany and abroad. The central administration office is located in Memmingen.
ZANETTI TOOLS located in Brescia, Italy, is well-known for highly specialising in the sale of precision engineering tools. The member of the MINETTI Group has created an expert team that exclusively takes care of advising and supporting its Italian TSC customers. The professional application of the TSC software contributed in optimising stock levels as well as reducing customer shortfalls. Withdrawal and order errors as well as the herewith associated down times are now a thing of the past. The TSC software can be individually adapted to customer requirements. ZANETTI customers also value the comprehensive reporting and analysing tools which specifically assist in reducing production costs.
TSC maxi

The TSC maxi is the perfect solution for storing large quantities of compact tools in the smallest of spaces. In the spiral systems of TSC maxi, tools are stored in an extremely space-saving manner and at the same time absolutely securely. Selected tools are released via lift system.
TSC maxi - Options and dimensions

Control unit
- 3 manual storage drawers
- TSC Software
- PC incl. MS Windows operating system
- barcode scanner
- open system, also for third-party products
- control function also for TSC mini & midi
- lift truck base with removable front cover
- operating voltage: 230 V / 50 Hz
- special colours to RAL standard on request

Storage / dispensing unit
- withdrawal to FIFO concept
- max. load bearing capacity 90 kg per spiral level
- integrated transport lift for dispensing the relevant items „on top“

- spiral levels
  6 / 7 or 8 levels with up to 10 spirals
- spiral partitioning
  for 9 / 13 / 15 / 21 / 24 / 31 packaging units

Partitioning material for optimal managing of products on request.
Precise partnership

For STOCK and HURCO the best is just about good enough: Only optimal machining conditions enable very good efficiency, productivity, process reliability and accuracy values.

Together, both partners provide the evidence that these requirements cannot only be achieved under laboratory conditions but can also be realised in real-life situations. STOCK high-performance precision cutting tools are applied for drilling, milling, reaming and threading operations and must satisfy the highest demands. Not only the operating guide values specified by STOCK ensure the process achieves optimal results. The production chain of cutting tool and suitable tool holder from STOCK as well as compatible HURCO CNC machines provides optimal results whilst simultaneously minimising losses. Accuracy and performance capability is furthermore optimised by the HURCOWinMax-control as well as the tool management with the Tool STOCK Center.

Strong together

The customer service from STOCK and from HURCO is indeed different with regard to the available products. However, both companies strive for a high customer satisfaction, optimal results as well as a high economic efficiency. Therefore, both partners offer a complete customer orientated service that includes procurement advice, application recommendations and in-house support, by telephone, online or on the premises.
TSC Software

Standardised software for all TSC systems offers the following advantages:

- Stock is licensor thanks to in-house development
- Simple, intuitive handling
- Continuous monitoring of tool consumption (recording all tool movement data)
- Allocation of tooling costs to cost groups (i.e. cost centers, components)
- ABC-analysis, i.e. cost centres/cost units, tools
- Interfaces to external ERP-systems
- Online connection to suppliers via the Internet
- Return transfer of tools
- Administration of reworked tools (dispensing of reworked tool prior to new tool)
- Open system (can include several suppliers/tool managers)
- Administration of tools not in the machine
- Re-grind administration
- Measuring gauge and instrument administration, i.e. calibration
- Personnel awareness regarding tool cost (i.e. by displaying tool cost)
Our Program

Products

- Twist Drills
- Taps
- Milling Cutters
- Reamers
- Countersinks & bores
- Chamfering Tools
- Special HSS and Carbide Tools
  (to your specifications, or our solutions)
- Tool holders

Services

- Regrinding
- Modifications
- Recoating
- Paid labour coating
- Coating removal
- Intelligent Tool Depot Systems
- Technical assistance

Your local contact:

R. Stock AG
Precision Cutting Tools
Lengeder Straße 29-35
13407 Berlin • Germany
Phone  +49 30 40903-33 300
Fax    +49 30 40903-33 324
eMail  sales@stock.de

www.stock.de