The MATRIX family of automated tool dispensers powered by the unique MATRIX-TM management software can help you:

- Drive down costs
- Guarantee production output
- Optimize stock levels
- Streamline purchasing
- Control cost per unit (CPU) and tool life
- Select the right tools for each job
**THE MATRIX FAMILY**

**MAXI**
MAXI - stands tall with a large capacity, surprisingly small footprint and a sleek, ergonomic design. Secure with electronically locked drawers & bins.

**MINI**
MINI - can go just about anywhere, sitting atop a workbench, lockable MATRIX trolley or DLS 4D. Secure with electronically locked drawers & bins.

**WIZ**
Modular locker system. Perfect for large tooling and MRO. Multiple door/locker options.

**DLS 8D/D4**
Economical solution with flexible drawer partitions suitable for small and large items. Semi-Secure with 8 or 4 electronically locked drawers.

**ToolPort 8D/4D**
Dispenses single inserts and small items. 100% Control. 100% Accountability. 8 drawer and 4 drawer models.
MATRIX TOUCH SOFTWARE

Easy to use touch screen application to issue and return items:
- Drives MAXI, MINI, DLS and specified Kardex shuttle models
- Search items by group, text, numeric, application, picture and favorites
- Controls access to tools by user group, job, part and budget
- Prompts for alternative or related items
- Connects to electronic catalogs and tool selection apps
- Shopping basket for speedy issue of multiple items
- Alerts for stock shortages or discrepancies
- One database for multiple sites and cabinets

MATRIX MANAGE SOFTWARE

Comprehensive PC application to manage your entire stock of tools, whether in a MATRIX cabinet or regular warehouse:
- Full item & supplier maintenance including prices, stock levels, locations, technical data and usage history
- Complete suite of standard and advanced reports:
  - View and save in Excel, HTML, PDF and other formats
  - Smartphone format
  - For automatic delivery by email
- Sophisticated planning engine ensures maximum availability with minimum stock
- MATRIX-TM-Analyzer - for quick overview of the current situation
- CPU (cost per unit) and tool life calculator
- Tracks serial items and gauge calibration
- Interfaces with SAP and Machining Cloud
- Export/import interface with ERP systems
- Automatic calculation of re-order points and purchasing
- Build kits to issue groups of items
- Multi-language user interface
- Link photos and documents to items
- Manage the rework process
- Tool allocation for job planning
- Smart reports for customized data
- Smartphone app
MAXI AND MINI - BIN OPTIONS

• 16 bin sizes
• Over 50 drawer options with multiple bin configurations
• Maximum bins per drawer: 198 MAXI and 96 MINI
• Auto-Lock mechanism locks bins when the drawer is returned (optional)
• Available in 2 versions: TOUCH (stand-alone) and POD (additional cabinet for a MATRIX TOUCH version)
• TOUCH - supplied with PC, touchscreen (17” MAXI and 15” MINI), UPS (surge protection and power backup), barcode reader, network switch and MATRIX-TM software
• Manual override in case of power failure
• Barcode reader is standard for TOUCH-version - RFID system, fingerprint and magnetic card readers are optionally available
• Network - all versions can connect directly to the LAN. POD can also connect to a TOUCH
• Electrical supply: 220 V +/- 10 % 2.2A (or 110AC +/-10% 4.6A)
• Cabinet and drawer frames supplied in top-quality industrial grade zinc coated steel
• Hood and side panels supplied in ABS and bins supplied in PC-ABS
• All metal, plastic and electronic parts are made from recyclable material
• External colors: black (RAL9005) and silver (RAL9116)
• Manufactured under ISO9001-2008
• CE and UL/CA certified

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**MAXI**

- Drawers per cabinet: 1-12 [depends on drawer heights and quantity of Auto-Locks]
- Drawer heights: 50 mm, 75 mm, 100 mm and 125 mm
- Load weight per drawer: up to 50 kg (90 kg for Jumbo drawer)
- Cabinet weight varies depending on number of drawers and Auto-Locks: MAXI with 4 drawers and 4 Auto-Locks is ca. 400 kg; MAXI with 12 drawers is ca. 600 kg
- Cabinet frame includes 4 adjustable legs and removable front panel for forklift access
- Cabinet dimensions 1180 mm (W) x 752 mm (D) x 1469 mm (H)

**MINI**

- Drawers per cabinet: 1 - 5 [depends on drawer heights and quantity of Auto-Locks]
- Drawer heights: 50 mm, 75 mm and 100 mm
- Load weight per drawer: up to 20 kg
- Cabinet weight varies depending on number of drawers and Auto-Locks: MINI with 4 drawers is ca. 165 kg
- Cabinet dimensions 860 mm (W) x 581 mm (D) x 800 mm (H)
**MATRIX DLS 4D/8D - SPECIFICATIONS**

**DLS 4D**
- Sturdy industrial cabinet with 4 electronically locked drawers
- POD version only
- Manual override in case of power failure
- Direct network connection and single power supply 110 - 230 V
- Load weight per drawer: up to 180 kg
- 4 Drawers per cabinet (H): 1 x 101 mm; 2 x 153 mm; 1 x 203 mm
  [Net drawer height is 26 mm less than above nominal values]
- Cabinet dimensions: 915 mm (W) x 610 mm (D) x 820 mm (H)
- Front access forklift base: 50 mm (H)

**DLS 8D**
- Sturdy industrial cabinet with 8 electronically locked drawers
- 2 versions: TOUCH (stand-alone) and POD
  (additional cabinet for a MATRIX-TOUCH cabinet)
- Manual override in case of power failure
- TOUCH – supplied with PC / touchscreen, barcode reader,
  network switch and software license
- Direct network connection and single power supply 110-230 V
- Load weight per drawer: up to 180 kg
- 8 drawers per cabinet (H): 3 x 101 mm; 4 x 127 mm; 1 x 203 mm
  [Net drawer height is 26 mm less than above nominal values]
- Cabinet dimensions: 915 mm (W) x 610 mm (D) x 1220 mm (H)
- Front access forklift base: 100 mm (H)
Technical Data

- Large capacity, small footprint - 800 inserts (4D bench-top model) or 1600 inserts (8D free standing model)
- TOUCH supplied with PC, touchscreen, single power supply 110 - 230V, barcode reader and network switch
- Single or double size reusable containers store each insert
- 10 cartridges per drawer
- 1 item per cartridge
- Each cartridge is locked and pre-loaded with 10 single containers
- Containers per cartridge - maximum 20 single or 10 double
- Controlled by MATRIX software
- 8D model dimensions: 677 mm (W) x 614 mm (D) x 1448 mm (H)
- 4D model dimensions: 677 mm (W) x 614 mm (D) x 876 mm (H)
- Front access forklift base: 100 mm (H)
- CE certified
Technical Data

- Reconfigurable
- Sleek modern design, transparent doors and LED lighting
- "DIY" installation
- WIZ cabinet comprises:
  - Hood
  - Top and bottom frames
  - Base with forklift access
- 4-12 doors (lockers) per 2 column frame
- 6-18 doors (lockers) per 3 column frame
- Master cabinet houses 1 or 2 controllers – each controller can actuate 32 doors
- Up to 2 slave cabinets can be connected to a master cabinet
- Load weight per shelf – 15 kg
- Available as a POD (add-on) version
- Manual override in case of power failure
- Direct network connection
- Single power supply 12V 15A per cabinet
- Cabinet color - black (RAL9005)
- Cabinet dimensions:
  2070 mm (H) x 914 mm (W) x 457mm (D)
- 6 door options

Locker Dimensions:

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<tr>
<td>3C-T</td>
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</tbody>
</table>
**Matrix Android**

Tool Crib Management from the Palm of your Hand!
- MATRIX app manages traditional warehouse and tool room
- Records transactions via Wi-Fi connection to networked MATRIX database
- Compatible with any Android device, preferably with a built-in 1D/2D scanner
- Requires MATRIX software license v6.5 or higher

**Matrix Pouch**

Always the Right Tools for the Job!
- MATRIX Pouch reads Balluff chip on tool adaptor
- Data string with tool assembly parts is transmitted to MATRIX
- Quick “error proof” access to approved tools
- Compatible with common adaptor types and sizes
- Requires MATRIX software license v6.5 or higher
100% Visibility Anywhere on the Shop Floor

- MATRIX Real Time Location System tracks production assets that move around on the shop floor
- Reduced time locating production assets
- Increased utilization of production assets
- Easy to implement

IoT Hardware includes:
- BLE (Bluetooth low energy) Beacon - attached to each tracked asset - transmits a signal with a unique ID
- Gateway - installed at each location, like machine tool or tool crib - receives the beacon’s signal and transmits location data to MATRIX
- Tracks gauges, measuring devices, test equipment, production fixtures etc.
- Requires MATRIX software license v6.5 or higher

SERVICE  Our global service platform and your trained staff keep your production running at any time!