







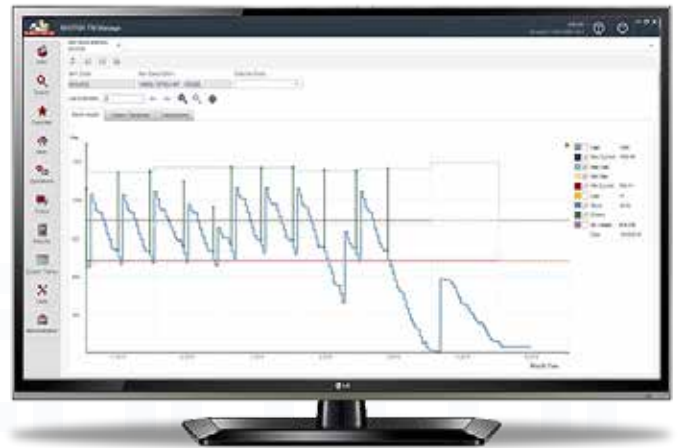
Your Ticket to the Digital Era



MATRIX Does It All

The Matrix Family of Automated Tool Dispensers Powered by Our Unique Management Software Can Help You

-  Drive down costs
-  Guarantee production output
-  Optimize stock levels
-  Streamline purchasing
-  Control cost per unit (CPU)
-  Select the right tools for each job



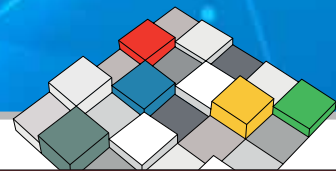
DLS



MINI



MAXI



MATRIX



TOOLPORT



DLS-V



WIZ

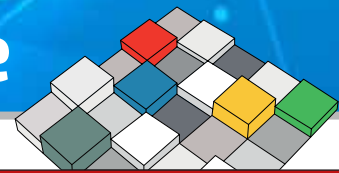
MATRIX Touch Software

Easy to Use Touch Screen Application to Issue and Return Items

- Drives MATRIX Cabinets and some vertical 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



MATRIX

Comprehensive Application to Manage Your Entire Stock of Tools, Gauges & MRO, 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
 - Automatic delivery by email
- Sophisticated planning engine ensures maximum availability with minimum stock
- Analyzer dashboard and item analytics provide overview of key performance indicators (KPIs)
- CPU 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



MAXI and MINI

MAXI

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

MAXI Premium

MAXI TOUCH cabinet with upgraded specifications for an enhanced user experience.

MINI

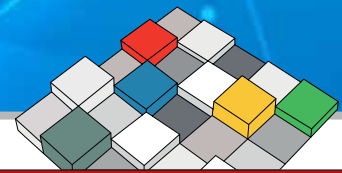
MINI can go just about anywhere, sitting atop a workbench, lockable MATRIX trolley or DLS 4D. Secure with electronically locked drawers & bins.

Specifications

- 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 drawers returned (optional)
- Available in 2 versions: TOUCH (stand-alone) and POD (add-on)
- TOUCH - supplied with PC, touchscreen (17" MAXI & 15" MINI), UPS (surge protection and power backup), barcode reader, network switch and management software
- Manual override in case of power failure
- RFID, fingerprint and magnetic card readers are available
- Network - all versions can connect directly to the LAN. POD can also connect to a TOUCH.
- Electrical supply - 110AC +/-4.6 %10-A or 220AC +/-2.2 %10-A.
- 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 QMS ISO2008-9001
- CE & UL/CA certified

MAXI PREMIUM

- 24" wide touchscreen
- High performance PC (i5)
- 2D barcode reader
- Fingerprint reader
- USB hub
- Extra fast ethernet switch
- 2 Year hardware warranty



MATRIX



MAXI

Large capacity: Over 50 drawer options with multiple bin configurations

MINI

Sitting atop a workbench and ergonomic design



MAXI and MINI - Completely Modular

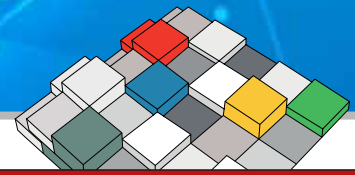
| Bin Code | H mm | D mm | W mm | H " | D " | W " |
|----------|------|------|------|-----|-----|------|
| 50A | 50 | 39 | 42 | 1.9 | 1.5 | 1.6 |
| 50B | 50 | 39 | 92 | 1.9 | 1.5 | 3.6 |
| 50C | 50 | 39 | 142 | 1.9 | 1.5 | 5.5 |
| 50D | 50 | 39 | 192 | 1.9 | 1.5 | 7.5 |
| 50E | 50 | 39 | 242 | 1.9 | 1.5 | 9.5 |
| 75A | 75 | 39 | 42 | 2.9 | 1.5 | 1.6 |
| 75B | 75 | 39 | 92 | 2.9 | 1.5 | 3.6 |
| 75C | 75 | 39 | 142 | 2.9 | 1.5 | 5.5 |
| 75G | 75 | 89 | 142 | 2.9 | 3.5 | 5.5 |
| 75H | 75 | 89 | 192 | 2.9 | 3.5 | 7.5 |
| 75L | 75 | 89 | 292 | 2.9 | 3.5 | 11.5 |
| 100A | 100 | 39 | 42 | 3.9 | 1.5 | 1.6 |
| 100C | 100 | 39 | 142 | 3.9 | 1.5 | 5.5 |
| 100J | 100 | 139 | 142 | 3.9 | 5.4 | 5.5 |
| 100K | 100 | 189 | 142 | 3.9 | 7.4 | 5.5 |
| 125XL | 125 | 165 | 295 | 4.9 | 6.5 | 11.6 |
| 125XXL | 125 | 165 | 445 | 4.9 | 6.5 | 17.5 |

MAXI

- Drawers per cabinet: 1-12 [depends on drawer heights and quantity of Auto-Locks]
- Drawer heights (net): 50mm/2", 75mm/2.9", 100mm/3.9" and 125mm/4.9"
- Load weight per drawer: up to 50kg/110lb (90kg/190lb for Jumbo drawer)
- Cabinet weight varies depending on number of drawers and Auto-Locks: MAXI with 4 drawers and 4 Auto-Locks is ~400kg/880lb; MAXI with 12 drawers is ~600kg/1325lb
- Cabinet frame includes 4 adjustable legs and removable front panel for forklift access
- Cabinet dimensions 1180mm/47" (W) x 752mm/30" (D) x 1469mm/58" (H)

MINI

- Drawers per cabinet: 1-5 [depends on drawer heights and quantity of Auto-Locks]
- Drawer heights (net): 50mm/2", 75mm/2.9" and 100mm/3.9"
- Load weight per drawer: up to 20kg/44lb
- Cabinet weight varies depending on number of drawers and Auto-Locks: MINI with 4 drawers is ~165kg/365lb
- Cabinet dimensions 860mm/34" (W) x 581mm/23" (D) x 800mm/32" (H)



MATRIX



DLS 4D

Supplementary storage capacity used as a base for a MINI cabinet.

DLS-V 5D

Electronically locked storage cabinet for managing tool assemblies.

DLS 8D

Economical solution with flexible drawer partitions suitable for small and large items.



DLS-V 5D
5 electronically locked vertical drawers

Specifications

- Sturdy industrial cabinet
- Manual override in case of power failure
- Direct network connection and single power supply 110-230V
- Load weight per drawer: up to 180kg/397lb
- Front access forklift base - 100mm/4" (H)

DLS 8D

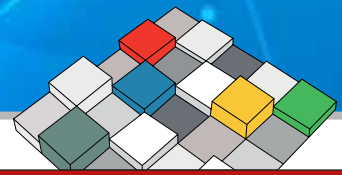
- 2 versions: TOUCH (stand-alone) and POD (add-on)
- TOUCH – supplied with all-in-one pc-touchscreen, bar code reader, network switch and management software
- 8 Drawers per cabinet (H): 3 x 101mm/4"; 4 x 127mm/5"; 1 x 203mm/8"
- Cabinet dimensions 915mm/36" (W) x 610mm/24" (D) x 1220mm/48" (H)

DLS 4D

- POD version only
- 4 Drawers per cabinet (H): 1 x 101mm/4"; 2 x 153mm/6"; 1 x 203mm/8"
- Cabinet dimensions: 915mm/36" (W) x 610mm/24" (D) x 820mm/32" (H)

DLS-V 5D

- Controlled by MATRIX software with option to serialize each tool assembly
- Up to 3 racks per drawer
- Rack options:
 - 6 holes rack for HSK A63 / C6 / 40T
 - 8 holes rack for 30T
- Adjustable rack height
- Sits atop DLS 4D or work bench
- Available as POD version
- Cabinet dimensions 915mm/36" (W) x 610mm/24" (D) x 1070mm/42" (H) (including Base)



MATRIX



DLS 8D
8 electronically
locked drawers



DLS 4D
4 electronically
locked drawers

ToolPort 8D/4D/4X4

Specifications

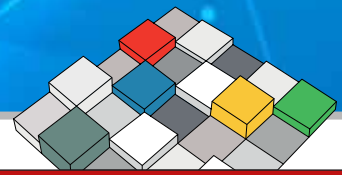
- Large capacity / small footprint → 800 inserts (4D bench-top model) or 1600 inserts (8D free standing model)
- TOUCH supplied with PC, touchscreen, single power supply 230-110V, barcode reader and network switch
- Single or double size reusable containers store each insert
- 10 cartridges per drawer
- 1 SKU 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: 677mm/27" (W) x 614mm/24" (D) x 1448mm/57" (H)
- 4D model dimensions: 677mm/27" (W) x 614mm/24" (D) x 876mm/35" (H)
- Front access forklift base: 100mm/4" (H)
- CE certified



4X4

- Combines 4 single insert drawers and 4 DLS style locked drawers
- DLS style drawer dimensions: 517mm/20.3" (W) x 530mm/20.8" (D) x 97mm/3.8" (H)
- Supplied with 3 partitions and 16 dividers per drawer
- Same cabinet dimensions as 8D model
- Available as TOUCH or POD version





MATRIX

8D/4D

100 % control 100 % accountability



4X4

Secure environment for Inserts and Tools

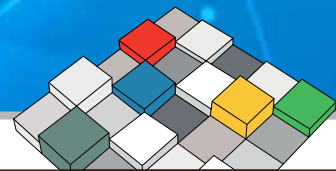


Specifications

- 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 – 15kg/33lbs
- 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 – 2070mm/81.5” (H) x 914mm/36” (W) x 457mm/18” (D)
- 6 door options / locker dimensions:



| | Door Code | H mm | W mm | D mm | H " | W " | D " |
|----------------|-----------|------|------|------|-----|-----|-----|
| 2 Column Frame | 2C-S | 157 | 457 | 457 | 6 | 18 | 18 |
| | 2C-D | 305 | 457 | 457 | 12 | 18 | 18 |
| | 2C-T | 457 | 457 | 457 | 18 | 18 | 18 |
| 3 Column Frame | 3C-S | 157 | 305 | 457 | 6 | 12 | 18 |
| | 3C-D | 305 | 305 | 457 | 12 | 12 | 18 |
| | 3C-T | 457 | 305 | 457 | 18 | 12 | 18 |



MATRIX

WIZ
Reconfigurable transparent
doors and LED lighting



POUCH and RTLS

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



MATRIX RTLS

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
- Track → Gauges; Measuring Devices; Test Equipment, Production Fixtures etc.
- Requires MATRIX software license v6.5 or higher





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 data base
- Compatible with any Android device, preferably with a built-in 1D/2D scanner
- Requires MATRIX software license v6.5 or higher



The Power of the Cloud

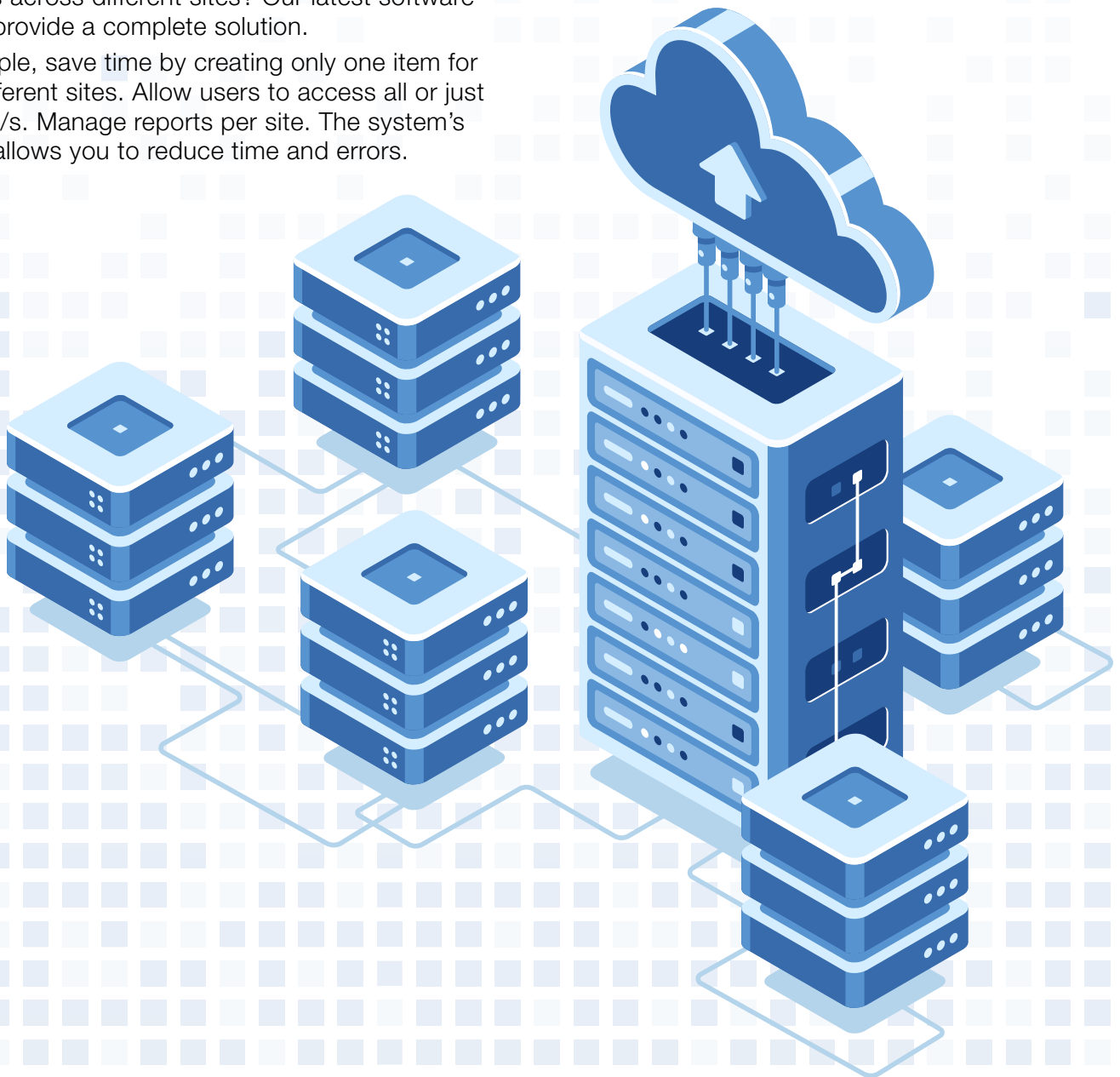
Regardless of the size or complexity of your tool data base, it's never been a better time to connect and enjoy the hassle-free benefits of the Cloud.

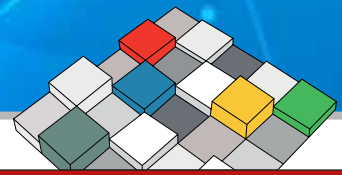
We offer an economical subscription-based service to migrate your local data base to our MATRIX Cloud. A scalable solution based on Microsoft Azure's best-in-class platform.

Multi-Site

Are you looking for a convenient way to manage your tools across different sites? Our latest software versions provide a complete solution.

For example, save time by creating only one item for use at different sites. Allow users to access all or just some site/s. Manage reports per site. The system's flexibility allows you to reduce time and errors.





MATRIX

Cost Per Unit (workpiece)

As the famous quote goes: “You can’t improve what you don’t measure.”

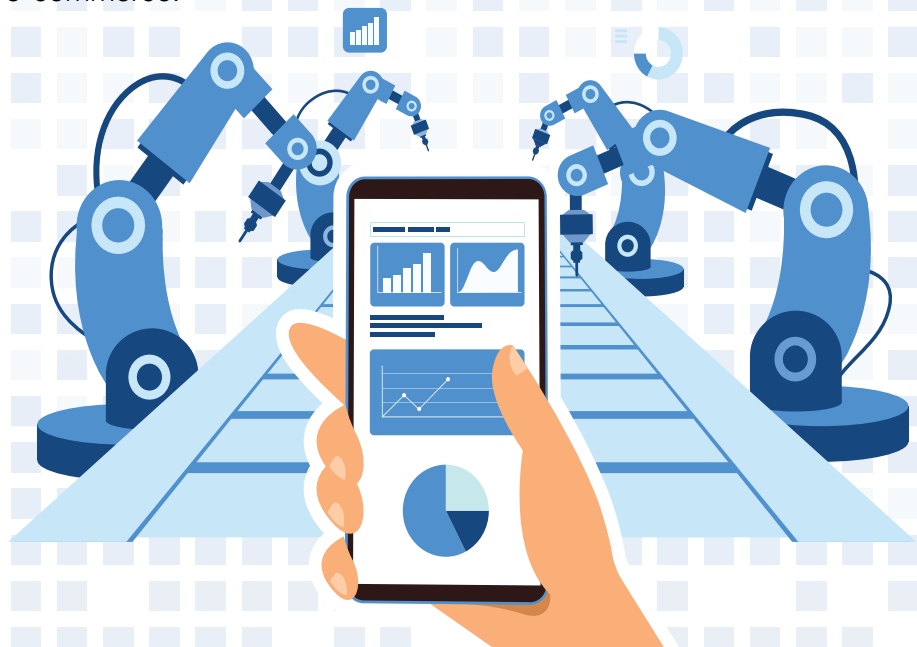
Understanding the real cost to produce a product is key to performance based continuous improvement. MATRIX software offers management tools that benchmark and report CPU to drive down production costs.



Industry 4.0

Industry 4.0 is no longer just a vague slogan. More and more companies are leveraging a range of digital apps to seamlessly communicate with each other and a range of smart devices.

MATRIX can support your Industry 4.0 integration with built-in communication options and some clever IoT equipment, like the RTLS and MATRIX Pouch. It also offers stock visibility across numerous shop floor apps and e-commerce.





WIZ



ToolPort



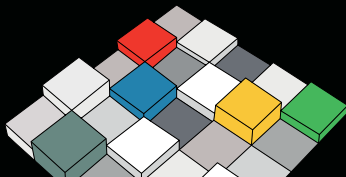
MAXI



DLS



MINI



MATRIX

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