MATRIX

MATRIX MAXI

MATRIX MINI

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

Member IMC Group
Ingersoll *Cutting Tools*

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

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

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

DLS-V 5D
Can be placed almost anywhere due to its compact design; can be placed on a workbench or on a DLS 4D. There are electronically locked drawers and compartments to prevent unauthorised access.

ToolPort 4x4 Hybrid
Unique hybrid tool cabinet. 100% security for individual inserts and drawer level security for tools, etc.

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 favourites
- 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-Analyser - 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

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MAXI AND MINI - BIN OPTIONS

bin type	H mm	D mm	W mm
50A	50	39	42
50B	50	39	92
50C	50	39	142
50D	50	39	192
50E	50	39	242
75A	75	39	42
75B	75	39	92
75C	75	39	142
75G	75	89	142
75H	75	89	192
75L	75	89	292
100A	100	39	42
100J	100	139	142
100K	100	189	142
125XL	125	165	295
125XXL	125	165	445

MAXI AND MINI - COMPLETELY MODULAR

- 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

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)

MAXI Premium

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

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)

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-V 5D

- 5 electronically locked vertical drawers
- Rack options:
  - 6 holes rack for HSK A63 / C40 / 6T
  - 8 holes rack for 30T
- Up to 3 racks per drawer
- Adjustable rack height
- DLS-V 5D sits atop DLS 4D or work bench
- Controlled by MATRIX software with option to serialize each tool assembly

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 foodprint - 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

- The cabinet contains:
  - 4 single insert drawers
  - 4 DLS style locked drawers
- Very economical solution for a wide range of consumables
- Freestanding
- Available as TOUCH or POD version

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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:

	Door Code	H mm	W mm	D mm
2 Column Frame	2C-S	157	457	457
	2C-D	305	457	457
	2C-T	457	457	457
3 Column Frame	3C-S	157	305	457
	3C-D	305	305	457
	3C-T	457	305	457

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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 data base
- 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

MATRIX SCALES

Interface to MATRIX software for managing long-life serial items by weight!

- Max. Weight 50 kg
- Weight accuracy 5 gr
- Dimensions of the tray 30cm x 40cm
- Height 68cm
- Tray made of stainless steel
- Communication TCP/IP
- LCD display
- 4 programmable commands: Zero, tare, power and weight
- Suitable for industrial environments
- Weight format options - metric or imperial

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

GO DIGITAL

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.

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

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Ingersoll Cutting Tools
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