

# THE ULTIMATE TOOL CONTROL SOLUTION



# INTRODUCTION

How do you get FOD under control? By getting tools under control.

And Snap-on's integrated tool control programs are designed to put the power to eliminate FOD literally in your hands. From tethered tools and wall-mounted tool control boards, to our industry-leading Total Asset Management system, Snap-on offers critical industries the most comprehensive tool control solutions in the world. Increase safety, productivity and efficiency. Put an end to the dangers – and costs – associated with FOD.

## THIS IS HOW LEVEL 5 TAKES TOOL CONTROL TO A WHOLE NEW LEVEL:

### LEVEL 1 – ORGANIZATION

A complete tool audit conducted by a Snap-on Industrial solutions expert helps define your tool control requirements. Match to the Snap-on tool storage products – from roll cabinets to carts – that best meet your needs, and add a specialized tool set designed for specific applications.

### LEVEL 2 – VISIBILITY

A clear view of the tools you use enhances productivity. We make tools easier to see, reducing tool selection time and increasing accountability for their return. High visibility tool handle colors, custom color foam inserts, toolbox organizers, and pegboard raise the visual profile of tools.

### LEVEL 3 – ACCESS CONTROL

Keyless Access Control to our tool storage units means your teams have access to just the tools they need. Configure the tool control to work with HID proximity badges, magnetic strip cards, barcode, and with or without a PIN. Proprietary software provides stand-alone or networked control.

### LEVEL 4 – ASSET MANAGEMENT

Use our software system for fast, accurate, cost-effective asset management. It provides full reports on tools and assets, location, employee, restocking/ ordering and more along with a full digital trail. Saves time and money with a well-organized sign-out and turn-in system.

### LEVEL 5 – AUTOMATION

When human error is minimized, so is FOD and FME. Our Automated Tool Control handles control and tracking automatically through digital optical tool scans every time a drawer is accessed. Proprietary software immediately tracks tools used by part number and user.



The idea is to keep you working - safer, more efficiently, more productively, with few losses of time, talent and equipment.

Tool trays are more than packaging, they're a build-in storage system. Standard foam kits - all the materials and tools in an easy to-use kit. Turn-key foam cutout "list-to-layouts" are computer assisted for speed and accuracy.



THE RIGHT TOOLS FOR THE JOB

## OUR FIVE-STAR APPROACH TO TOOL KITTING

From one-of-a-kind kits to thousands of identical tools sets, no one does tool kitting like Snap-on. No matter how big or small the application, Snap-on's robust, flexible and scalable capabilities enable us to create a plethora of kitting solutions – from stationary, mobile and transportable sets, to fully-outfitted shipping containers, and much more. No job is too big or too small, as we supply kits for everything from servicing copy machines, to maintaining and repairing tanks, helicopters, oil rigs and jumbo jets. Standard or custom, large or small – from our state-of-the art kitting center, Snap-on does it all.

### ORGANIZATION

Tons of options for organizing tools: bags, shadow boards, foam inserts for portable cases, custom foam layouts for tool box drawers, and more. When you're highly organized, you're highly productive.

### TOOL MANAGEMENT

Management follows organization. Whether you require simple visual management, or a program to meet FOD and FME requirements, we can tailor a management program for virtually any need.

### SOURCING AND INTEGRATION

Need a tool that requires additional sourcing beyond our standard offerings? No problem. We can do the sourcing for you, and integrate the components into your kit.

### TOOL IDENTIFICATION

At Snap-on, we have in-house laser tool engraving capabilities to match your identification system – whether you're looking for etching for a specific kit, or serially marked tools.

### ON-SITE TOOL MANAGEMENT

Sometimes you need someone to actually go on-site, check inventories, manage updates, and handle replacements. Snap-on is ready to assist you with all your tool needs.



34 inch / 49 inch  
Visual Control Cabinet (VCC)

## HERITAGE & CLASSIC KEYLESS ENTRY

Snap-on's system secures your tool box, allowing you to control who has access to its contents. No keys to lose or share - your choice of access method:

### KEYPAD PIN ENTRY - PROXIMITY ID CARD

Administrative access at the unit or through remote software lets you add and delete up to 3,000 authorized users, display an audit trail of past access, and more!

### LOCKVIEW® FEATURES

- Eliminate the hassle of keys to open tool boxes
- Battery power makes ideal for environments where tool boxes are on the move
- Powered by 6 D-cell batteries (not included) or power cord
  - Single set of batteries can last up to six months depending upon environment
- Grants access to tool boxes with two access methods, Proximity ID card and/or keypad PIN entry
- Access with single credential or dual credential: card plus PIN for example
- Access unit sits on top of the box and comes pre-assembled - all you need to do is put in the batteries and set up access credentials
- LED lights indicate if box is opened or closed
- At the box programming
- Last access indicator



### ACCESSORIES:

#### Administrative Software

- Allows boxes to be connected to a laptop via USB cable
- See historical logs for box access
- Manage box settings
- Manage box user settings and access rights
- Manage groups of users
- Prevent "jackpot" access by locking out boxes after a number of access attempts

#### RETROFIT KITS:

- Existing boxes may be retrofitted modules.
- Each kit contains detailed instructions and box modification templates
- Standard HID proximity card and keypad access



## MASTER SERIES KEYLESS ENTRY

### KEYLESS ENTRY FEATURES

- Access by time, user and date
- How long the user was in the box
- Records unauthorized access attempts by date, time and user
- It records the date, time, and user who performed a physical or visual inventory with findings
- Network-ready with your choice of Ethernet or wireless
- Works with your existing badge system or HID
- Connects to other boxes with slave units to create customized workstations
- Intuitive wizard - driven software provides centralized control for all boxes

### ADDITIONAL KEYLESS ENTRY FEATURES

#### Power

- 12 V rechargeable battery for extended portability
- Battery level (fuel) gauge in LCD screen
- Messages alert users to recharge
- Indicates charging mode: plugged in, fast-charge or standby mode

#### Multi-Function Buttons

- Allow programming at the box
- View all settings, make changes
- View audit trails
- Record visual or physical inventories
- Add and delete users easily

#### Networking

- Networking allows easy system management from a central location LCD Screen
- Show date, time, user name, battery and system status

#### Additional Features

- Programmable auto-relock time
- Auto-relock on box movement for safety
- Drawer ajar alarm
- Programmable alarm system
- System upgradeable to 802.11N
- Supports up to 3,000 active users per box
- At the box programming
- Last access indicator

#### Technical Support

- Technical Support is provided through your Industrial Account Manager



## VISUAL CONTROL CABINET

The Snap-on Visual Control Cabinet features a clear, abrasion-resistant polycarbonate window that gives you a full view of your tools for instant accountability and inventory management. Available in 2 sizes, this cabinet can hold up to 100 tools securely with keyed or keyless entry. With an optional rolling cart or rolling cab, you can position the Visual Control Cabinet close to the work so your technicians always have the right tools ready to use.

### FEATURES AND BENEFITS

- Visually manage tools at the “Point of Use”
- VCC keeps tools chest high – within the “strike zone” – reducing the need to bend and stretch for tools
- Makrolon® AR Polycarbonate window – the same material used in jet fighter cockpits – for “at a glance” tool management and tool security
- eLock keyless entry for maximum security without the need to distribute keys
- e-Lock is programmable for up to 3,000 users and can be networked with LockView® software
- The paint-free stainless steel models are designed for clean room applications and feature an easy-to-clean surface



Visual Control Cabinet with LockView® software.

## FOR BULK STORAGE

### FEATURES AND BENEFITS

- With a durable chrome finish and open cage design, it's easy to take inventory of your valuables from any vantage point—without ever entering the cage.
- The cage features a keyless entry system and a secondary door handle that latches at top and bottom so you can control access to the cage. A convenient padlock security loop allows for easy audit control.
- The Snap-on Keyless Entry System allows for entry with badge or via keypad with at-the-box programming for up to 3,000 users. The system can be networked with LockView® software.
- Double doors open to a full 270 degrees for easy access and an unobstructed view of the entire interior.
- The roomy interior features three shelves to securely store portable tools, assembly parts or project components.
- Features heavy-duty casters that swivel and lock for easy mobility.





SS2763



L5CHHP6500

TCMax<sup>®</sup> is Tool Control Software that talks<sup>™</sup>, eliminating the need to repeatedly look at the computer screen between barcode scans. It is the fastest, most accurate way to check tools in and out. TCMax can communicate with the Snap-on<sup>®</sup> Keyless Entry System for the ultimate in positive tool control. Provides audible and visual verification of items and function. It's easy to use, smart and secure.

**OPTIONS AVAILABLE:**

TCMax Demo Disc
TCMax 1 seat maintenance agreement and updates for one year
TCMax 3 seats maintenance agreement and updates for one year
TCMax 5 seats maintenance agreement and updates for one year
TCMax 1 Seat License
TCMax 3 Seat License
TCMax 5 Seat License
TCMax 1 Seat Mobile Pocket PC License
TCMax 3 Seat Mobile Pocket PC License
TCMax 5 Seat Mobile Pocket PC License

**THE TCMAX MOBILE POCKET PC**

Handle physical inventories quickly and simply. From anywhere in the plant or facility.

- **L5CHHP6500** with a built-in imager for both 1-D and 2-D barcodes. It talks to you just like TCMax on a PC. It's perfect for performing physical inventories of assets or for issuing and turning in items at a remote location.

**TEXT DATAMATRIX BARCODING. HIGHER SECURITY. BROADER FLEXIBILITY.**

- Today's most advanced, most secure barcoding system. Up to nine characters of information encoded in small square or rectangular marks.
- Identify, track and control every tool, instrument and piece of equipment in your inventory. The marks are permanent and can be placed and read on almost any metal or plastic surface – even curved surfaces.
- There is no better way to protect and control your assets and your costs than DataMatrix Barcoding from Snap-on.
- Laser engraving application
- Encode both text and raw data
- Wear and tamper-proof
- Flat and curved surfaces
- Limit of 9 characters for laser marks



Contact your sales Representative for more information.

INFORMATION ABOUT TOOLS USAGE

**ACCESSORIES**

**Label & Receipt Printers**



L5W3174269

L5W2672073

**Barcode Scanners**



L5W2568546

L5W2136156

**Signature Pad**



L5W1128080



## SIMPLE, SCALABLE TOOL CONTROL STARTS WITH CENTRALIZED ACCESS CONTROL

Tool control systems control tool shrinkage and replacement cost. They also help reduce lost-tool downtime. In critical industries and applications such as aviation and nuclear power, tool control is an essential step toward eliminating FOD (Foreign Object Damage in aviation) and implementing FME (Foreign Material Exclusion in the power industry). Unlocked and open access tool boxes can result in FOD/FME problems. Snap-on puts you in control with three choices. Our Keyless Entry system allows you to specify access to boxes, audit when they are used, and manage it all over a network.

Our ATC system provides the simplest and most user-friendly solution for detecting tools issued from and returned to a tool box, providing a critical enhancement to your FOD/FME program. Using advanced digital imaging technology and proprietary software, the tool box automatically keeps track of its inventory by user, and records which tools are removed and replaced, and when.

### ATC ADVANCED TECHNOLOGY THAT MAKES TRACKING TOOLS SIMPLE.

ATC is a true tool control system. Based on the tool list that you supply, each drawer in the tool box is organized and each tool assigned to a unique space in the foam drawer liner. That information is then programmed into the scanning hardware fitted to the top of the box. As each drawer is opened and closed it is scanned digitally, and the image is instantly compared with the baseline stored image of that drawer. Any tool that has been removed or returned is identified and the computer makes an audible announcement: a tool has been removed or replaced.

Additionally, the computer tracks each tool removed and replaced by its part number and by user, and creates an audit trail in database format. Both the digital images and the data entries are stored for review in an audit trail of the last 15,000 transactions. Not only do you get detailed information, but you have access to the actual pictures of the drawer contents for verification.

### PLUG AND PLAY VS. SOME ASSEMBLY REQUIRED

Some solutions to FOD and FME problem involve attaching RFID tags, sensors or bar codes to the tools to track them.

Additional operations and attachments can create significant additional cost and limitations by:

- Interfering with the normal use of the tool
- Using up additional real estate in the drawers
- Having limited usability on small tools like sockets
- Dislodging and becoming a new source of FOD

### ATC FEATURES

- No individual tool scanning required
- No RFID tags to install or replace
- No limitations on tool size—if it fits in the drawer, it works
- Intuitive interface—easy-to-use touchscreen
- Audible voice confirmation of tool removal and replacement
- Automatic locking
- Errors announced and displayed for incorrect tool position or drawer not closed
- Administrative software, with or without remote HID scanner

### PLATFORM AVAILABLE

- 36" single bank roll cab, approximate capacity 450 tools
- 54" single bank roll cab, approximate capacity 750 tools

### FEATURES AND SPECIFICATIONS

- 1 year electronics warranty
- Extended warranty available
- 110V/230V AC power required
- Unlimited number of assigned users
- Networking through Ethernet or wireless
- 1 copy of ATC software required for each administrator





It's no secret that the Snap-on Automated Tool Control System is the most comprehensive program of its kind in the industry. Using advanced digital imaging technology and proprietary software, ATC automatically keeps track of its inventory by user and records which tools are removed and replaced—all in real time. And now, you can take this revolutionary system where you need it, thanks to the new on-board rechargeable batteries. Moving ATC closer to the action improves productivity, saving time and money.

## AN AUTOMATIC TOOL CONTROL SYSTEM THAT'S AS MOBILE AS YOU ARE

### FEATURES AND BENEFITS

#### Rechargeable Batteries

Both 36-inch and 54-inch ATC platforms include 6 rechargeable, interchangeable batteries, providing up to 16 hours of battery life (two 8-hour shifts). The hot-swappable feature allows workers to easily replace an existing battery with a charged battery without impacting productivity.

#### Recharge Options

Batteries can be fully recharged in 3.5 hours using the internal charging system by plugging in the ATC. An optional, stand-alone battery charger is available which charges up to 6 batteries in 4 hours. Extra batteries are available individually or in a set of 6.

#### Safety and Protection

Snap-on rechargeable batteries feature state-of-the-art circuit protection that prevents overload. For safety, the batteries will shutdown if they reach an upper heat limit, (well below critical stages) or if there is an accidental shortage.

#### Battery Monitoring

The ATC system monitors the batteries so you don't have to. A visual indicator shows discharge levels and the system verbally announces low battery levels. When batteries are critically low, the ATC system safely shuts down the system and all components.

#### Battery Tracking

Each battery is recorded in the ATC system by a serial number and is tracked like a tool. The ATC system records an event each time a battery is removed or replaced.



# CHOOSE YOUR LEVEL OF SECURITY

A complete tool control system designed to fit the level of the activity you need to control



## LEVEL 1 - ORGANIZATION



Get organized with the right tools, stored the right way. A complete tool audit by your Snap-on Industrial tool and tool control expert helps define your tool and tool control requirements. Use the results to reset your tool inventory with new customized Snap-on tool sets. Consider a new tool storage unit to increase productivity in your workspace.

## LEVEL 2 - VISIBILITY



Having a clear view of the tools you use enhances productivity in the workplace. Making tools easier to see reduces tool selection time and increases accountability for their return. High visibility tool handle colors, custom color foam inserts, toolbox organizers and pegboard, can raise the visual profile of tools as they are used and stored. The Snap-on Visual Tool Control cabinet provides the ultimate in tool visibility.

## LEVEL 3 - ACCESS CONTROL



Effective tool control relies on ensuring that your teams have access to just the tools they need, when and where they need them. Keyless Access Control to Snap-on tool storage units is the solution. Configure to work with HID or iClass proximity badges, with or without using a PIN. Snap-on's proprietary software manages access at the individual user level, and allows either stand-alone or networked control.

## LEVEL 4 - ASSET MANAGEMENT

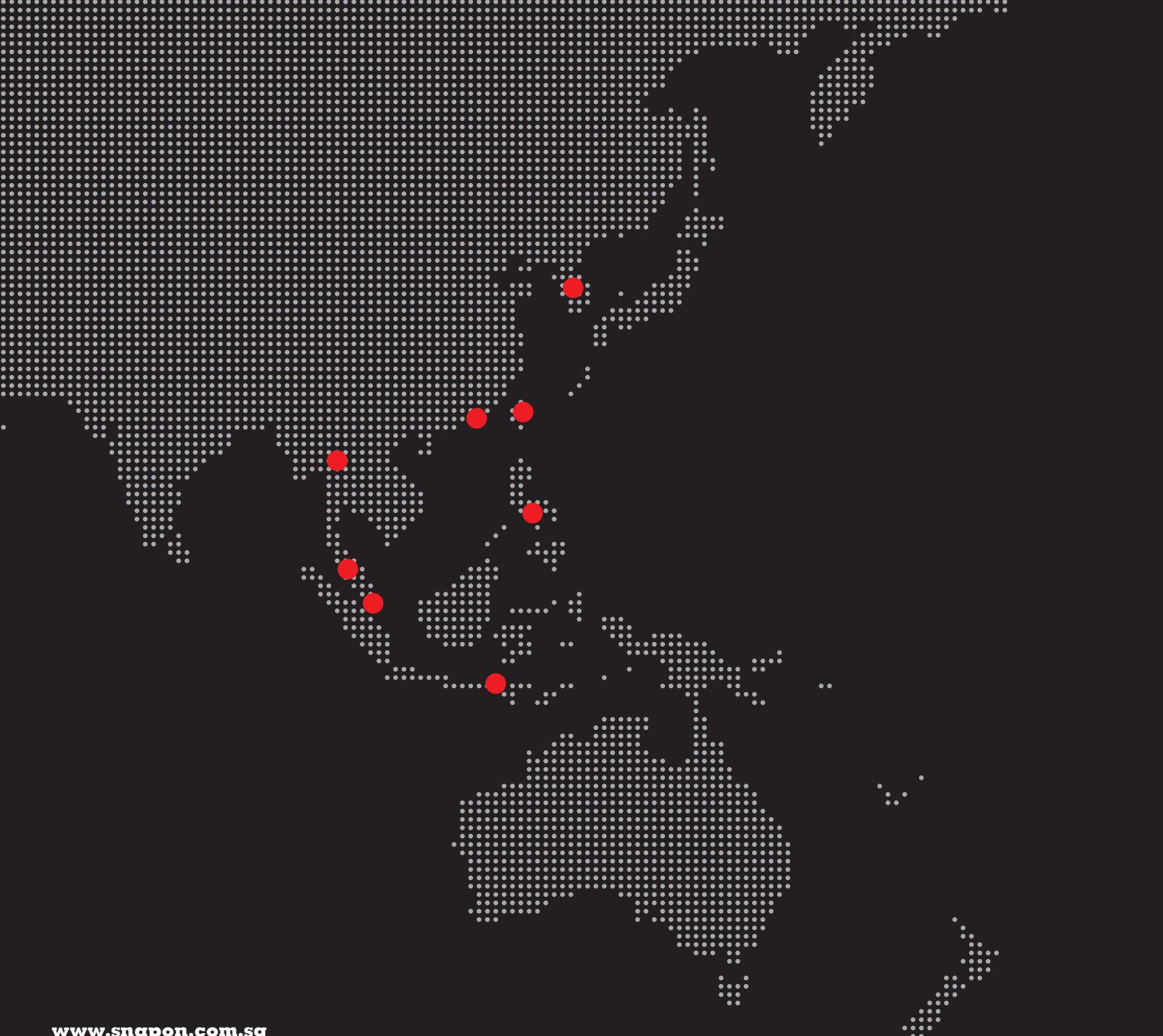


Merging the benefits of speed, accuracy, and cost-effectiveness are the goals of tool control at an organizational level. Snap-on Tool Control offers TCMAX Software, the simple, intuitive tool asset management solution. Simple, well-designed screens cover both issue and turn-in. You benefit from less paperwork and easier inventory processes. The result—increased productivity.

## LEVEL 5 - AUTOMATION



When critical industry processes and concerns dictate elimination of Foreign Object Damage (FOD) and Foreign Material Exclusion (FME) problems, the solution is to minimize opportunity for human error. Let your toolbox handle the control and tracking automatically, through digital optical scans of your tools every time a drawer is accessed. Proprietary software provides immediate tracking and audit trails of tools used, by part and user. No need for bar codes, scanners, RFID tags, or other add-ons.



[www.snapon.com.sg](http://www.snapon.com.sg)

For more information, please contact our sales representatives at [enquire.cs@snapon.com](mailto:enquire.cs@snapon.com)

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