

LEVEL 5™

TOOL CONTROL

Level 5 Tool Control is the most comprehensive program of its kind in the industry. Every tool that goes out the door has a system for control designed right in, right from the start, ready to be applied. And best of all, it's a system that can be set up according to your specific needs. It's even scalable to continue to fit your needs now and into the future. The idea is to keep you working – safer, more efficiently, more productively, with fewer losses of time, talent and equipment. All in accordance with aviation specification requirements and FOD.

WE'RE MORE THAN A TOOL COMPANY

- We manufacture over 15,000 standard tools
- Ready with specialized and modified tools to meet your unique and often demanding needs of your business
- Constantly searching for new and innovative ways to do the job
- The broadest range of tools anywhere on the planet
- We put an extra margin of safety into every tool we make
- Commitment to ergonomics for maximum control and comfort
- Doing more to organize, secure and control your tools
- Putting it all together with the most experienced, dedicated and creative team of problem solvers in the business – the Snap-on Industrial sales force “Solutioners”

1. ORGANIZATION

- Tool trays are more than packaging, they're a built-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



2. VISIBILITY

- Color control with high visibility colors for special needs
- Wall-mounted tool control boards – standard and custom to meet your needs
- Professionally engineered foam cut layouts

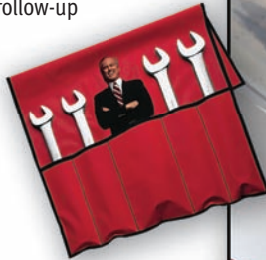


3. SECURITY

- Tool chit card and reader system
- Pocket badges to mark and identify foam kits
- Keyless control (cards, not keys) for better security and control

CUSTOMER SERVICE

- We have always been “Solutioneers” because we and our partners are a “Problem Solving Team”
- Unmatched warranties, training and day-to-day follow-up
- Value-added customer service actually reduces the original cost of tools and equipment
- Warranty, replacement and continuing service back up our tools with whatever it takes to keep your business profitable
- Committed to industry through memberships, associations and technological advancements



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4. TRACKABILITY

- Laser tool engraving to match your ID system
- Specialized kits – boxes to bags to match your needs

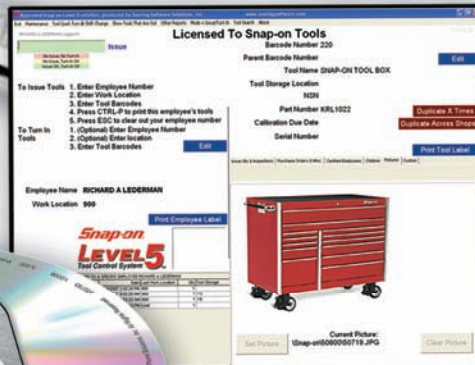
THE RIGHT PEOPLE
THE RIGHT ANSWERS
THE RIGHT TOOLS



Call your Snap-on Industrial sales representative. See inside back cover for additional contact information.

5. ACCOUNTABILITY

- True-Fit “Virtual Inventory”
- Barcode readers for better access control
- Software control and reporting for the ultimate in record keeping



TC MAX®

Asset Management Software. SO SMART, IT EVEN TALKS.

- No guessing. Unique audio response confirms issue and turn-in. Even keeps track of calibration schedules.
- No lines at the tool crib. Employee, tool and location entries are fast and accurate.
- Single screen for over 90% of the functions.
- No paper records. The total digital solution.
- No tools unaccounted for.
- No labeling headaches with simple, TC Max custom label maker.
- No learning curve. It's simple and intuitive.

THE BIGGEST COST? PUTTING IT OFF.

Lost equipment, the time tracking things down, the paperwork, the lines, the processes, the time spent slogging through complicated inventory procedures. The costs can be huge.

With TC Max, the savings start immediately, and keep adding up. It's all about lean processes today, and TC Max speaks the language.

EASY TO LEARN. EASY TO MANAGE.

The world's most advanced asset management system also happens to be the most simple. Easy to learn – easier to operate. It adds up to more accuracy and higher productivity. TC Max puts who, what, when, and where, right at your fingertips.



Issue/Turn-in mode gives you the who, what, when and where of all your assets. You have the total picture at all times.



GROWS WITH YOUR BUSINESS. A SYSTEM FOR TODAY. AND TOMORROW.

More than a system for inventory. A system for change. And that means cost-savings today, tomorrow and into the future. TC Max can be customized to fit your changing needs.

- Operates on Microsoft Access® database, but SQL Server is also supported.
- Share the database on a network with computers using SQL Server.
- No custom software. Standard packages save you time and money.
- No special software modules. Everything is included.

- Go completely paperless with captured electronic signatures.
- Increase security by identifying employees via company ID, driver's license, barcode, or even fingerprints!

A DIFFERENCE YOU CAN SEE AND HEAR.

Our sign out system is as simple and intuitive as it gets. One screen covers both issue and turn-in. And with our unique audio prompt/command system, we even tell you what's going on.



PHYSICAL INVENTORY MODE. CUT COSTS and ADD EFFICIENCY.

Simple, fast and accurate. Just enter the information – employee and location number and the number of the trailer/truck/building being inventoried. Then quickly start scanning barcodes. Keep going as long as you keep hearing “turn in.” You’ll hear “enter quantity” for multiples and “issue” when something is out of place. TC Max will alert you to minimum quantities, and keep track of calibration and maintenance schedules. We’ve had customers tell us this feature cuts inventory time from a week to less than a day!

A SYSTEM FOR CONSUMABLES THAT YOU CAN COUNT ON.

All the information you need on consumables is right there in front of you – on the same screen you use for issue/turn-in. It’s simple, easy and efficient. And, again, it even talks to you.

- Check the “No Turn In” box for consumables. When issued, the quantity in stock is reduced by one.
- If the “Issue Multiple Tool” box is checked, TC Max speaks up. It asks how many by saying “enter quantity” – then removes that quantity from your inventory.

Contact your Snap-on Industrial sales representative for ordering details and ask for your FREE copy of TC Max Demo. Visit www.snapontcm.com for more information.



Inventory mode lets you keep track of consumables and manage your re-ordering, as well as being able to bill items to a specific job.

The screenshot shows a software interface with a search form at the top and a table of tools below. The search form includes fields for Barcode Number, Parent Barcode Number, Tool Name, and Serial Number. It also has checkboxes for 'Show Expendables Only' and 'Display this tool on main screen'. A 'Print Tool Label' button is visible. The table below has columns for Barcode Number, Parent Barcode Number, Tool Name, Tool Storage Location, Part Number, Unit, Cost, Qty on Hand, Vendor, Recorder Qty, Max # Stock, Calibration Interval, # On Local, Current User, and Serial #. The table lists various tools such as '1/4 x 20 T Bolt', '3/8-16 x 10 Carriage Bolt', 'Safety Pin', 'Essary Spring Coils Tool', '3/8-16 x 8 Carriage Bolt', '3/8-16 x 1" Plain Coarse Pin', 'SAP 1" x 1/8" OD Split Ring', '5 10" OD x 1/8" OD Split Ring', 'Disc weight 10 metric set', '3/8-16 x 7" Carriage Bolt', '1/4-20 x 7" Clenching Capless Nut', '1/2" x 2" Hard Thread Coarse Pin', '1/2-13 x 2" Carriage Bolt', '1/2-13 x 2" Carriage Bolt', 'Ass Part Car Valve', '3/8-16 x 1 1/2" Carriage Bolt', '1/2 x 1-1/2" Plain Coarse Pin', '1/2-1/2" x 8 200°OD Split Ring', '6-32 Split-Clenching Capless Nut', 'Orrimal cut off wheel 1" dia', 'In line', 'SPE-18-1 Split-Clenching Capless N', 'Copper Wire 8"', 'Tulsion Tapet Set', '1/4-20 lock nut', '1/4-20 1/2" hex bolt', '1/4-20 1/2" hex bolt', '1/4" Pin (Blind)', 'Tap Feet Assortment', 'RTV Gasket Material', '1/4" x 7" Fresh Coarse Pin', '1/4" Pin 5/16"', 'SAB back wearers', 'SAB Coarse', '6/32 Tapet Pin', 'Brake clevis', 'MILBON GLOVES LARGE', '100 11-2', 'GLOVE/L', '140', '130'.

HANDLE SHIFT CHANGES IN SECONDS.

Save time and money by instantly transferring assets to the next-shift employee. Easily customize the system to exclude certain assets from the shift transfer or to limit the issue of certain assets to specific employees, such as those not certified to use a certain tool.



Advanced parent/child designation.

By assigning a parent designation to a tool box or set of tools, and child designation to the contents, you achieve total knowledge and total control over your assets and equipment.



TC Max[®] Asset Management

Tool Control Software

Level 5 is Tool Control Software that talks, 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. Level 5 can communicate with the Snap-on Keyless Entry System for the ultimate in Level 5 positive tool control. Provides audible and visual verification of items and function. It's easy to use, smart and secure.



Stock Number	Description
SS2763	TC Max Demo Disc
L5CAM1	TCMAX 1 seat maintenance agreement and updates for one year
L5CAM3	TCMAX 3 seats maintenance agreement and updates for one year
L5CAM5	TCMAX 5 seats maintenance agreement and updates for one year
L5CSL1	TCMAX 1 SEAT LICENSE
L5CSL3	TCMAX 3 SEAT LICENSE
L5CSL5	TCMAX 5 SEAT LICENSE
L5CPP1	TCMAX 1 SEAT Mobile Pocket PC LICENSE
L5CPP2	TCMAX 3 SEAT Mobile Pocket PC LICENSE
L5CPP3	TCMAX 5 SEAT Mobile Pocket PC LICENSE

The TC Max Mobile Pocket PC

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

L5CMC70 with a built-in imager for both 1-D and 2-D barcodes. It talks to you just like TC Max on a PC. It's perfect for performing physical inventories of assets or for issuing and turning in items at a remote location. Supplied with a Symbol Gold service agreement that covers accidental damage.



L5CMC70



L5CL2208

L5CP370USB

Barcode Scanners

L5CP370USB is a wireless barcode scanner, with a keypad on the top and is our most popular scanner. It does NOT do 2-D PDF417 or DataMatrix barcodes, but it is great for all 1-D applications. The P370 is perfect for most applications. Keypad on the top allows you to easily enter quantities of items without having to return to the computer keyboard.

L5CL2208 has a six foot USB cable that plugs into the PC or laptop. Works best when all items to be scanned are within 5 feet of the PC.

L5CHHP4620 is a 2-D scanner that can read all linear barcodes plus 2-D barcodes like PDF417 and DataMatrix, but NOT on chrome plated tools. Great for 2-D labels and is wireless but does not have a keypad. Also available is the **L5C4600SF** which has a 6 foot USB cable (not wireless).

L5CHHP46LEN can read a DataMatrix barcode on a chrome plated tool! This special modification is available on this scanner with a 6 foot USB cord and on the Pocket PC. Requires that tools be laser engraved with a DataMatrix barcode, with our specifications.

Label & Receipt Printers

L5CPT9500R3 Easy to install and set up. Label cost is about 25 cents per label to the end user. It makes a plastic label that sticks well and is easy to read. Switching label material size is easy. We include 5 rolls of industrial grade white 3/8" tape; will give the user about 500 labels. Use this printer to print individual replacement labels or labels in small quantities.

To print 1/2" wide labels, order **L5CPT9500R5** printer. Includes 5 rolls of 1/2" industrial grade label tape.

L5CTZS221 3/8" Label Tape Roll

L5CTZS231 1/2" Label Tape Roll

L5CTLP3844 Prints on indestructible label material that is very difficult to pick off anything. With other labels, once the label starts to peel off, the rest of the label soon follows. This label will only chip and will not peel off. Label costs are rather low, 4 cents per label, and the 3/8" x 11/2" label is utilized by pocket badges.

L5CZDLAB 6,000 Z-Destruct label with one ribbon.

L5CWP0517 Polyester label material for your laser printer, 1/2" x 13/4", 80 labels per sheet, 50 sheets.

L5CWP3R8 Polyester label material for a laser printer. 3/8" x 11/2", 10 sheets, 125 labels per sheet.

L5CTSP743U Thermal receipt printer with USB interface, 208 dpi. Barcodes on the receipts expedite the turn-in process at a busy tool crib and can be used on the job to show what tools you should have at this time.



L5CPT9500R3

L5CTSP743U

Signature Pad

L5CSIGPAD Required to support electronic capture of signature, provide proof of delivery and return by a specified individual.



L5CSIGPAD

Level 5 Tool Box Adapter

L5CADA RS232 adapter box, cable, and USB to RS232 adapter to connect Level 5 Tool Box to a PC and TC Max.

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KEYLESS ENTRY

FLEXIBILITY

- Portable system rechargeable 6V DC.
- Signals operator when recharge is recommended.
- Reads employee badges/cards.
- Key can be used to override the system.
- Electronic master key available.
- “Smart Lock” can be retrofitted or installed in any KRL or KRW Series roll cabs and workstations.

SECURITY

- Reads an individually encoded badge or card for access control.
- Only authorized employees can unlock the tool box.
- Re-locks at the push of a button.
- Flashing red LED when unlocked.
- Advance programmable alarm system is included.
- Programmable locking/unlocking with “Smart Lock.”
- Drawer Control allows only one drawer open at a time.

TRACEABILITY / ACCOUNTABILITY

- System records box entry by user.
- Memory is backed up.
- Report is easily generated and exported by user, time and date of entry.
- System interfaces with Level V asset management software.



Multi-Function Button



Proximity formatted badge also references as H.I.D. Badges

EASY TO ORDER.

Step One: Order your storage units by color choice from the following selection. Note: Does not include access panel.

■ Red	■ Blue	■ Black	■ Yellow	■ Arctic Silver	Other storage units are available.
KRE722A	KRE722APCM	KRE722APC	KRE722APES	KRE722APKS	
KRE1022A	KRE1022APCM	KRE1022APC	KRE1022APES	KRE1022APKS	
KRE7022A	KRE7022APCM	KRE7022APC	KRE7022APES	KRE7022APKS	
KRE7023A	KRE7023APCM	KRE7023APC	KRE7023APES	KRE7023APKS	
KRE756A	KRE756APCM	KRE756APC	KRE756APES	KRE756APKS	
KRE1023A	KRE1023APCM	KRE1023APC	KRE1023APES	KRE1023APKS	
KRE1032A	KRE1032APCM	KRE1032APC	KRE1032APES	KRE1032APKS	

Step Two: Order the internal electronic locking system from one of the following three selections.

1. Magnetic Strip Card Module – KREMSG2
2. Proximity Sensor Module – KREPCPG2
3. Bar Code Reader Module – KREBCCG2

• Retrofit kits are available as follows:

- Complete Bar Code Kit – KREBKIT
- Complete Mag Strip Kit – KRESKIT
- Complete Proximity Kit – KREPKIT

• Accessories

- Slave Unit – KRESU
- Y Adaptor Power Cord – KREYPC
- Replacement Charger – KARP2
- 230V Power Supply – KRE230PS

Step Three: Order the Lockview Software.

Lockview Software with USB Dongle – KRELVS

- Only one Lockview Software package required per administrator or department.
- Other KRE bottom box colors are available by special order. Allow 6 to 8 weeks for delivery.
- Slave units (max. of 6 per controller) allow the addition of side cabinets and top boxes.



TOOL CHITS

PROBLEM: FOD

Foreign Object Debris costs the aerospace industry millions of dollars each year in damage to equipment and personnel.

SOLUTION: TOOL CHITS

A personalized tool management system

- Tool Chits allow an immediate visual accounting for all tools in a drawer.
- Tool Chits promote personal accountability.
- Tool Chits are simple to implement and use.
- Tool Chits reduce and minimize tool loss.
- A Tool Chit program is easy to tie into an existing system.
- Custom Tool Chits are available with sequential numbers, employee photos, and your logo.

ORDERING TOOL CHITS IS EASY!

1. Send your logo in jpg or bmp format.
2. Send photos in jpg or bmp format with unique file names.
3. Send data for text in an Excel, Access, or comma-delimited ASCII format.

Call your Snap-on Industrial sales representative. See inside back cover for additional contact information.



TOOL CHITS

TOOL CHIT OPTIONS AND PART NUMBERS



LV5C019TR10

LV5C019CC10

LV5C019BT10

LV5C019NT10

TEMPCHIT

IDCHIT



ORDER BY NUMBER OF CHITS NEEDED.

Tool Chit part number:

- Repair Tool – LV5C019TR10 (Packs of 10)
- Calibration Certification – LV5C019CC10 (Packs of 10)
- Broken Tool – LV5C019BT10 (Packs of 10)
- No Tool – LV5C019NT10 (Packs of 10)
- Temporary Tool Chit – TEMPCHIT (Packs of 45)
- Custom ID Chit – IDCHIT (Packs of 10)

E-MAINTENANCE

YOU'RE DEVELOPING ADVANCED PREDICTIVE MAINTENANCE PROGRAMS FOR YOUR AIRCRAFT – USING MORE AND BETTER INFORMATION. YOU HAVE THE DATA. WE HAVE THE MEANS TO CONTROL AND APPLY IT.

Exciting new e-maintenance initiatives are being developed in the aviation industry, holding great promise for the future of predictive maintenance — the gathering and integration of data, cost control and, most importantly, aircraft performance and safety.

Level 5 Tool Control Systems can play an important role. In fact, a central role. Level 5 can be your e-maintenance hub. Where information, tools and staff come together at a simple but powerful touch-screen module. Your staff has instant access to critical flight data, fully coordinated with ground computers. They locate the required tools and instruments, initiate the maintenance, even access appropriate manuals. All from a single touch-screen.

Total integration of data, tools and talent. The bottom line? Higher-quality work, when and where you need it.

That's total peace of mind. That's Level 5 from Snap-on.

- Integrate into your Asset Optimization Centers (AOC) for seamless coordination of predictive/pro-active maintenance needs with the appropriate tools and staff.
- Simple, intuitive touch screen – easy to learn and operate.
- Includes TC Max technology – with unique “talking” issue and turn-in prompts for fast, accurate operation.
- Keyless entry – with an employee badge reader. No keys, no worries about missing/stolen tools.
- Cost-effective solution – no server, no server to upgrade, no custom software.



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DATA MATRIX

TEXT DATA MATRIX BARCODING. HIGHER SECURITY. BROADER FLEXIBILITY.

Today's most advanced, most secure barcoding system. Up to nine characters and two kilobytes of information encoded in small square or rectangular modules.

Identify, track and control every tool, instrument and piece of equipment in your inventory. The modules are permanent and can be placed and read on any metal or plastic surface – even curved surfaces.

No better way to protect and control your assets. And your costs. Data Matrix Barcoding from Snap-on.

- Ink-jet, dot-pen, laser and electrolytic application.
- Encode both text and raw data.
- Wear and tamper-proof. Good for the life of the tool.
- Flat and curved surfaces -- even compound curves.
- Symbol sizes from 8x8 mm to 144x144 mm.

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DATA MATRIX

