

**US TOOL**GROUP®



**INDUSTRIAL VENDING SOLUTIONS**

# AUTOCRIB INDUSTRIAL VENDING SYSTEMS PRODUCT/SERVICES PRESENTATION



## **AUTOCRIB INDUSTRIAL VENDING SYSTEMS PRODUCT/SERVICES PRESENTATION**

US Tool Group (US Tool) is proud to be a Premier AutoCrib Distributor, one of the largest providers of AutoCrib systems in the industry and the largest North American provider of AutoCrib products to the aerospace market.

US Tool offers a complete turnkey industrial vending solution including design, configuration, set up, installation, training and maintenance. US Tool's AutoCrib IT Support Team is a one source resource for all AutoCrib requirements, ensuring a rapid deployment and expedient response to our customer's requests for system installation and support.

US Tool's AutoCrib IT support team also provides valuable software development capabilities to create customer specific reporting resulting from the data collected in the AutoCrib system or connected ERP systems.

In addition to providing AutoCrib software, hardware and support, US Tool provides a complete integrated material management solution involving product planning, procurement, warehousing and delivery. This solution can also include on site management and staffing of customer tool cribs and other valuable functions including product packing for automated dispensing, power tool repair, tool holder repair, custom machine parts manufacturing, team tool boxes, kitting and other integrated tool management products and services.

US Tool also provides the largest cutting tool reconditioning solution in North America. Over 350 dedicated cutting tool specialists recondition over 500,000 tools per week for major aerospace, defense and large manufacturing companies in the U.S., Canada and Mexico.

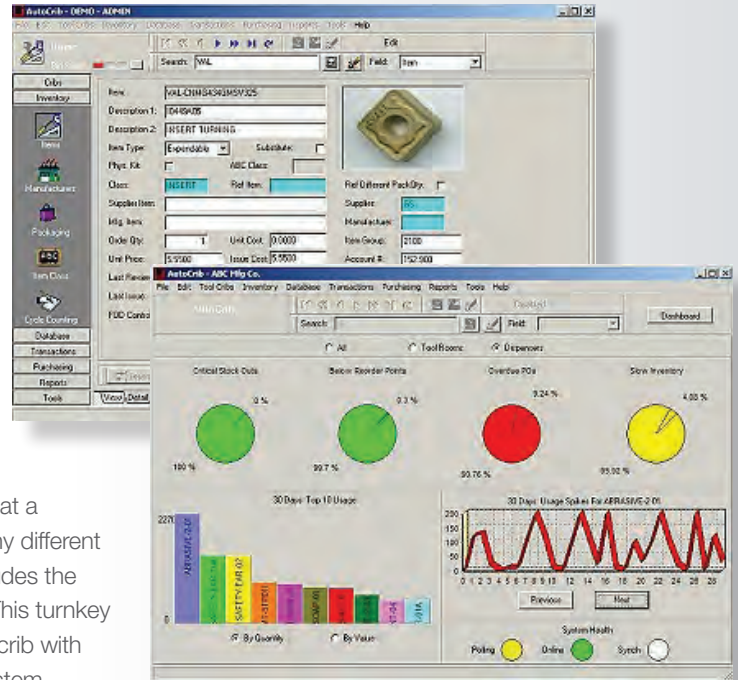
For more information regarding AutoCrib products and the other capabilities of US Tool, please visit our web site at [www.ustg.net](http://www.ustg.net) or call us at 800-222-1771.

Following are product descriptions and images of current AutoCrib products. Also visit [www.autocrib.com](http://www.autocrib.com) for additional product information.

# AUTOCRIB SOFTWARE

## AUTOCRIB SOFTWARE

AutoCrib tool crib software is the latest in automated inventory management, allowing users to perform issue and return tasks at a traditional tool crib window while simultaneously managing many different types of point of use dispensing machines. Furthermore, it includes the capability to control multiple vendors within the same system. This turnkey tool crib software system has everything needed to run a busy crib with thousands of items including a sophisticated cycle counting system.



## FEATURES

- Simple icon driven graphical user interface
- SQL Server databases
- Intelligent "Dashboard" screen
- Access control by item, dollars, job, employee shift & crib
- Purchasing / receiving system
- Over 160 management reports
- Automatic e-mail of any report
- Custom reports available
- Immediate notification of critical item shortage
- Real-time graphing for employees, jobs, departments & items
- View notes & digital images of items
- Five item types
  - Expendable
  - Perishable
  - Durable
  - Gage
  - Kit
- Serialized gage & calibration tracking capability, kit building & tracking capability
- Lot tracking & management
- Regrind/rework tracking & control
- F.O.D. (Foreign Object & Debris) control
- Receives advanced ship notices (ASN) via EDI
- Interface with many popular ERP systems

# ROBOCRIB 500, 1000, 2000



## ROBOCRIB 500, 1000, 2000

RoboCrib is a system based upon a series of counter rotating carousels that

is available in 3 different sizes. Unlike many point-of-use dispensing machines, the RoboCrib manages issue and return transactions of both fast and slow moving items in high security environment while eliminating the need for individual re-packing.

## CAPACITY

RoboCrib 2000 has been designed to provide secure access to as many as 2574 different items with optional expansion bins. Imagine this incredible capacity in a system that requires less than 27 square feet of floor space. The RoboCrib1000 provides access to as many as 1050 items in less than 10 square feet of floor space and can fit through a standard doorway. The variety of available bin sizes makes managing both small and large items a reality (cutting tools, gages, valves, tube fittings, batteries, safety supplies, welding tips, keys and much more).

## HOW IT WORKS

Users simply push the issue button on the touch screen, the RoboCrib prompts for an employee number and optional PIN number (this can be typed or scanned in). You can also include any overhead data that you choose (i.e. Department Number, Job Number).

Next, the user selects the item by searching using the item code, description, or any one of 16 other searchable fields. The system then verifies the request against the AutoCrib databases and initiates moving the carousels. Once the item is moved into position, the appropriate door is opened. The user can access the necessary item through a secure portal.

## SIMPLE AND FAST

Because they know that time is money, AutoCrib has designed RoboCrib to be as fast as possible. With an average dispense time of seven seconds; these machines get users back to work in a minimum amount of time. Buttons that display on the touch screen are programmable for each user, only showing them the functions that are relevant.

Like all AutoCrib systems, only the highest quality components are used in the manufacture of RoboCrib. AutoCrib has adapted the same technology that has been used on modern CNC machines for years. This insures the long-term reliability that the AutoCrib name has become synonymous with. Like all other AutoCrib systems, all RoboCrib carry a full 12-month warranty.

## SCALEMATE

The ScaleMate option is a unique approach of combining the popular high security RoboCrib system with a counting scale (load cell). This gives the RoboCrib the ability to dispense multiples of items from a single bin in a high security format using optional 6 & 12 pie parts cups. This solution provides a significant increase in security over drawer based dispensing systems. In the typical drawer based system the user is required to tell the system how many of a specific item they are taking. This results in inaccurate bin counts, which ultimately cause overages and/or stock outs. The ScaleMate system does not rely on the user to give a count of what was taken, it is done automatically. If the user attempts to put something in the bin in an effort to change the issue quantity, the system checks to make sure the new weight is divisible by the per piece weight and if not, bin contamination will be reported to the system administrator.



# SECURITY AND ACCESS CONTROL

## SECURITY AND ACCESS CONTROL

You make the decisions regarding employee access profiles using the item based access control. The system is able to limit the use of any item to a specific quantity per day, week or month. Furthermore, employee access can be limited by a dollar threshold or by setting time restrictions by shift. RoboCrib can also control access by allowing items to only be used on specific jobs. Finally, access thresholds can be set by departmental budget as well. The system is also able to track “lot numbers” as well as deny access to a serialized gage that has fallen out of its calibration cycle. Pre-sized portals matching the bin sizes insure that security is not compromised.



## FEATURES OF THE FLEXIBLE BIN SYSTEM:

- Mix and match to suit your needs
- Eliminate the need for repackaging
- Suited to large and delicate items
- Easily reconfigured in the field
- Custom bin configurations available

Unlike other systems, RoboCrib is physically mobile and mounted on wheels. Therefore, this system is perfectly suited to manage maintenance and repair parts throughout large areas like airline hangars, shipyards and large manufacturing plants.

## FLEXIBILITY

Typically, storage needs change, therefore AutoCrib designed the RoboCrib to be easily reconfigured. Any tray assembly can be changed out in minutes by simply removing and replacing only four screws. This allows for a system that easily adapts to your dynamic storage needs.

The system is available with optional frameless doors, allowing larger items to be managed by orienting items vertically. For even larger items, AutoLockers can be added and driven by the RoboCrib user interface creating a SuperRobo.

- **Full pie**  
(11 1/2" circular x 4" high)
- **Half pie**  
(11 1/2" x 5 1/2" x 4" high)
- **Third pie**  
(9 1/2" x 5 1/2" x 4" high)
- **Quarter pie**  
(7 1/2" x 5 1/2" x 4" high)
- **Sixth pie**  
(5 1/2" x 5 1/2" x 4" high)
- **Twelfth pie**  
(2 3/4" x 5 1/2" x 4" high)



# ROBOCRIB FEATURES



## ROBOCRIB FEATURES

- 24/7 availability with 100% total security and accountability
- Saves 20-40% on indirect supply costs
- Eliminates tool crib trip time by locating supplies at point of use
- Reduces stock outs and purchase orders using Demand Based Ordering
- Exclusive AutoCrib 5.3 software with dashboard provides instant access to your critical supplies metrics
- No need to repackage items
- Exclusive frameless doors allow access to larger items

## RoboCrib 500

Enclosure: 30" W x 31"D x 74"H

Powder coated heavy gage sheet metal

Welded base and frame structures

Tapered roller bearing pivots

High-strength chain and sprockets

Computer display: 12.1 diagonal color SVGA TFT touch screen

On-screen "virtual" soft keyboard

Computer: Diskless PC Intel Pentium

Bar Code Scanner: universal omni-directional  
wedge-type laser scanner

3 circular columns on platters with 15 levels

Access to each level controlled

by an electronically locked door

Door aperture automatically sized to fit selected bin size

Weight capacity to 600 lbs

Configurations to 628 bins

Injection molded polypropylene trays

Field configurable

3AMP, 120VAC 60HZ or 230 VAC 50Hz

Operating temperature range of

10°C to 38°C (50°F to 100°F) in still air (75% R.H.

non-condensing) or stored in a range of

-18°C to 68°C (0°F to 155°F)

For indoor use only.

Shipping weight: 650 lbs



1000



2000

### RoboCrib 1000

Enclosure: 34"W x 39"D x 79"H

- Powder coated heavy gage sheet metal
- Tubular steel frame
- IGUS bearing pivots
- V-ribbed drive belt system

Computer display front clearance:

With keyboard pulled out: 6"

Computer display: 12.1" diagonal color SVGA TFT touch screen

Computer: PC Intel Pentium

Bar Code Scanner: universal omni-directional  
wedge-type laser scanner

5 circular columns on platters with 15 levels

- Access to each level controlled  
by an electronically locked door
- Door aperture automatically sized to fit selected bin size

Weight capacity 1000 pounds

Configurations to 1050 bins

Injection molded polypropylene trays  
Field configurable

3AMP, 120 VAC 60Hz or 230 VAC 50Hz

Operating Temperature range of

10°C to 38°C (50°F to 100°F) in still air (75% R.H.  
non-condensing) or stored in a range of  
-18°C to 68°C (0°F to 155°F).

For indoor use only.

Shipping weight: 1,000 lbs

### RoboCrib 2000

Enclosure: 62"W x 62"D x 84"H

- Powder coated heavy gage sheet metal
- Tubular steel frame
- Tapered roller bearing pivots
- High-strength chains and sprockets

Computer display front clearance:

With keyboard pulled out: 6"

Computer display: 12.1" diagonal color SVGA TFT touch screen

Computer: PC Intel Pentium

Bar Code Scanner: universal omni-directional  
wedge-type laser scanner

12 circular columns on platters with 15 levels

- Access to each level controlled  
by an electronically locked door
- Door aperture automatically sized to fit selected bin size

Weight capacity 2600 pounds

Configurations to 2574 bins

Injection molded polypropylene trays  
Field configurable

3AMP, 120 VAC 60Hz or 230 VAC 50Hz

Operating Temperature range of

10°C to 38°C (50°F to 100°F) in still air (75% R.H.  
non-condensing) or stored in a range of  
-18°C to 68°C (0°F to 155°F).

For indoor use only.

Shipping weight: 2,400 lbs



## REMOTE DISPENSING STATION

The AutoCrib Remote Dispensing Station is the original tool vending machine developed in 1994. This machine provides 24 hour a day access to your high value, fast moving and critical inventory items in a secure helix/coil-dispensing format and a simple to use keypad or touchscreen interface. In its standard configuration this tool dispensing machine can dispense safety supplies,

welding supplies, cutting tools and other MRO related items. Optional electronic tool lockers can be attached to create a SuperStation, capable of managing oversize and returnable items as well.

Although this dispensing machine has been available for more than 15 years, it has seen consistent evolution. It has been updated with many recent advances, including its laser "vend verification" system. The system verifies that the item being dispensed has been dispensed before decrementing inventory in that bin. If the system does not detect that an item has broken the laser beam shortly after the dispense command, it tries a second time. This eliminates the frustration of not receiving an item due to potential stocking errors.

### FEATURES:

- 60 bins in standard configuration, expandable to 70 bins
- Bins are easily adjustable to suit changing needs
- Helix/coils contain between 40 & 4 item per bin, depending upon size
- Virtually no maintenance required
- Simple flush mounted integrated keypad interface
- Four language keypad; English, Spanish, German & French
- Recessed and protected barcode scanner
- Optional magnetic swipe and proximity card input
- Return bin for dull tools & packaging
- Integrated UPS (battery backup)
- Complete serialized calibration control (with optional lockers attached)
- Complete lot control
- Force the use of recondition items over new
- "Virtual Kit" dispense with single command
- F.O.D. (Foreign Object & Debris) control
- Access control by item, budget, job and employee shift
- Receives advanced ship notices (ASN) via EDI
- Interface with many popular ERP systems (SAP, JDE, Baan, etc...)
- Can be web enabled for use with AutoCrib.net



## AUTOLOCKER

AutoLocker stations provide 24 hour issue and return access to high value oversize, calibrated and durable items in solenoid activated lockers with a simple to use keypad or touchscreen interface.

Individual lockers are

available in eight different sizes that can be mixed and matched according to the application. Lockers come with windows and are powder-coated white inside providing visual access to the items inside.

The lockers can be programmed to deny access to any gage that has exceeded its calibration threshold. Calibration recall can be based upon the first occurrence of a calibration date, number of days on the floor and the number of cycles it has run. Optional features include the addition of network connections and AC power outlets. This allows users to keep laptop PCs updated and charged up in a secure "check out" and "check in" environment.

### FEATURES

- Available sizes (in inches):
  - \* 12h x 12w x 12d
  - \* 6h x 12w x 12d
  - \* 6h x 12w x 24d
  - \* 7h x 18w x 18d
  - \* 18h x 18w x 18d
  - \* 36h x 6w x 24d
  - \* 24h x 24w x 24d
  - \* 36h x 36w x 36d
- Four language keypad; English, Spanish, German & French
- Optional magnetic swipe and proximity card input
- Complete serialized calibration control
- Complete lot control
- F.O.D. (Foreign Object & Debris) control
- Access control by item, budget, job and employee shift
- Receives advanced ship notices (ASN) via EDI
- Interface with many popular ERP systems (SAP, JDE, Baan, etc...)

### SAMPLE MODULES:



## INTELLIPORT

With this passive RFID (Radio Frequency IDentification) system, your employees walk into a secure caged area, crib or store room to obtain tools, MRO items, safety products, or any indirect material used to keep your facility going. The system provides 100% accountability for the issue & return of these items without the assistance of an attendant.

RFID technology now makes this possible. Your employees don't have to scan, dispense or concern themselves with any aspect of retrieving items other than carrying them in or out through the port.

As employees enter the doorway, their badge is read from wherever they are carrying it on their person using the RFID antennae. Their name sounds off audibly and the door is unlocked, given they have permission to enter the crib.

Now they enter to retrieve their items, which have passive RFID tags affixed to them. The employee gathers all the desired items and they press the exit button to unlock the door and walk back through the IntelliPort which records the transaction for each item as they walk away. All transactions are recorded real-time in the AutoCrib software using RFID technology.

### FEATURES:

- Touch screen control allows for non-auto ID log in
- Electro-magnetically controlled door with a lock that withstands 600lbs of pressure
- Access control warnings and digital photo ID
- Multiple cage sizes and label packages
- Easily expandable cage sections to increase storage capability
- Automatic RFID identification of employee and items
- Ability to carry an entire bin or cart of items through the IntelliPort and accurately track every item
- Durable 100% 16 gauge steel construction - made in the USA
- Improve inventory accuracy
- Dramatic labor savings



## VISICAB

This is an excellent solution for F.O.D. (Foreign Object Debris) control but can be used in any application where 100% of the tools or other items must be returned and accounted for. Any variety of tools can be housed in the trays of the VisiCab and THE MACHINE CAN ACTUALLY SEE which items are in the machine and which are missing! It also knows who took them out and when!

### HOW IT WORKS

Users begin by entering an employee number manually or through an optional card reader; access can be granted or denied by employee number.

The access door opens and the user presses the power and forward/reverse buttons simultaneously on the left and right portions of the cabinet to index the tray(s) to the position(s) where the tool(s) they require are located. The user removes the tool(s) and closes the door.

The system indexes all 8 trays past the imaging system to detect if any tools are missing. If any tools are missing the green LED indicator turns red to provide visual notification that one or more tools are out on the floor.

The return process is the same as in steps 1-3 except in step 4 the user returns the tool(s). If all tools are present, the LED changes from red to green.

### FEATURES:

- 24/7 availability with security and accountability
- Proprietary Machine Vision tool detection system
- 40" W x 30" D x 52" H on casters
- 8 metal trays, all 30" W x 12" D, 25 lb. capacity
- Trays driven by 2 simultaneously held buttons
- Red or green LED status indicators
- Battery backup options in excess of 8 hours
- Maximum tray delivery 10 seconds
- Tools in foam cut outs with contrasting background
- NO software needed in basic model, but VisiCab can be integrated with all AutoCrib software and other machines for even greater functionality!
- Quick and easy access
- Compact footprint
- No modifications of the tools required
- Does not use RFID tags



## ELEVEND

The EleVend is AutoCrib's newest industrial vending machine. The EleVend system pushes the supply of product up from the bottom until it reaches the top of the bin. The system simply measures the distance the elevator has traveled and decrements the appropriate amount of product from the inventory. This machine provides 24 hour a day access to your fast moving gloves, PPE and other items in a secure format with a simple to use keypad or touch screen interface.

The primary benefits of the system include eliminating the need for special repackaging, capacity and its ability to process a great deal of transactions in a short period of time compared to other dispensing machines. Repackaging of gloves for traditional helix/coil based dispensing machine technology is a very labor-intensive procedure. With the EleVend, simply place gloves on top of each other (alternating left and right) in its deep vertical bins. These bins have the capacity to store as many as 96 pair of gloves, perfect for high volume applications.

### HOW IT WORKS

Users enter their employee number followed by the bin# of the desired item. The lid automatically pops open for that bin; the user takes as many of the items as needed and closes the lid when finished. The system pushes the supply of product up from the bottom until it reaches the top of the bin. The system stops its vertical motion when the items break the beam of a low powered laser. Finally, the system measures the distance traveled and decrements the inventory accordingly.

### FEATURES

- Works well with Knit Gloves
- Works well with Boxes of Gloves
- Fast Dispense
- Low Maintenance
- No Special Packaging Required for Items
- Connects to Existing AutoCrib Systems
- Standard Configuration Includes 21 Bins with a Keypad Tower (up to 78 Bins in 1 Crib)
- Supports Barcode, Magnetic Swipe and Proximity Card Input for Access



## MINICRIB

The MiniCrib toolcrib scanner is built on the popular and simple to use Palm Pilot platform that incorporates a high output Symbol laser scanner on the top of the unit. This gives tool crib users the ability to scan barcodes with the touch of a button and perform many of the most common dispensing tasks performed with tool crib software packages that cost tens of thousands of dollars. Tool Crib or stores attendants can move around without being tethered to computer terminal or a stationary input device. The MiniCrib toolcrib scanner is resistant to damage from dropping as all internal mechanisms float on shock absorbers. The device is available in two versions, one that uses data synchronization over a cable and another that can perform its synchronization wirelessly.

## FEATURES

- Issue items
- Return items
- Purchase items
- Perform cycle counts
- High output laser scanner
- Synchronize to AutoCrib Tool Crib software via cradle & cable
- Communicate via cradle & cable
- Communicate via frequency hopping spread spectrum RF
- Durable high impact resistant case
- Operator friendly size and shape
- Palm interface allows use of stylus for writing
- Rechargeable battery system
- Low cost simple solution



## MOBILECRIB

AutoCrib's latest generation handheld, the MobileCrib is built on the popular and simple to use Windows Mobile platform. It incorporates a high output laser scanner on the top of this feature rich unit. This gives tool room and stores attendants the ability to scan barcodes with touch of a button and perform the most common transactions with this handheld device. Users can move around freely without being tethered to a computer terminal or having to do extensive data entry. The MobileCrib is resistant to damage from dropping as its internal mechanisms float on shock absorbers.

## FEATURES

- Issue items
- Return items
- Locate by Item or Location
- Physical / Cycle count
- Purchase items
- Receive items
- Adjustments
- Integrated bar code scanner
- Real time wireless on 802.11 b or g
- Durable high impact resistant case
- Operator friendly size & shape
- Windows Mobile OS
- AutoCrib.net or Client/Server software
- EDI capable



## TOOL CRIB STATION

Tool Crib Stations allows users the ability to automate an existing tool room, tool crib or stores area using either a keypad or touch screen interface. By designating the area in the AutoCrib tool crib software as a tool crib and installing a toolcrib station at the crib window, you can effectively convert a manual tool crib to a virtual dispensing machine. Now the crib can benefit from the same level of control and accountability as an AutoCrib tool vending machine, for a fraction of the price. The difference is that users as opposed to tool crib attendants perform the data entry.

Placing terminals at various locations or remote work cells throughout a plant can create a "runner system". Orders are placed from these locations, which print out in the toolcrib, and runners deliver items on a scheduled basis. Receipts can also be printed, providing written document for every transaction that occurs.

## FEATURES

- Issue items
- Return items
- Perform cycle counts
- Perform socking transactions
- High output laser scanner
- Low cost simple solution



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### **GREAT LAKES OPERATIONS**

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### **MID-ATLANTIC OPERATIONS**

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FAX 757-595-4102

### **MID-AMERICA OPERATIONS**

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### **SOUTHEAST OPERATIONS**

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Although our industry has changed over the past 50 years, US Tool has always strived to provide quality products and outstanding service, supported by the uncompromising dedication of our employees. We thank our customers for their loyalty and our employees for their commitment. We look forward to providing another 50 years of innovative tooling solutions.