MBOX

Automated Smart Lockers

ABOUT MERIDIAN

Meridian is a fully integrated manufacturer of automated smart lockers, indoor and outdoor kiosks, interactive digital signage and self-service software. As a complete end-to-end self-service innovator, Meridian develops products and services all under one roof, providing greater efficiency, and lean, high-quality results. For nearly two decades, we've helped our partners succeed by designing, engineering, manufacturing and integrating hardware and software solutions from our 13-acre headquarters in North Carolina.

DESIGN + MANUFACTURING UNDER ONE ROOF

- ❏ Full Scale Production Facilities
- ❏ 13 Acre Manufacturing Campus
- ❏ Global Manufacturing Capabilities
- ❏ ISO 9001:2015 Certified
- ❏ UL Self-Certify Facility
- ❏ Experts in ADA, FCC and HIPAA Compliance
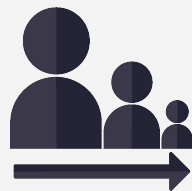
MBOX SMART LOCKER SYSTEM
SECURE. SMART. ROBUST. CONNECTED

Meridian's mBOX automated smart lockers provide secure, fully integrated systems to simplify product pickup for unattended rentals, device charging, package drop off and retrieval and much more. Designed with the end-user in mind, electronic locker systems enhance, complement and expand upon the processes and services that they use and rely on across a variety of industries.

ORDER FREQUENCY
Increases order frequency by streamlining the order and pickup processes.

DECREASE CONGESTION
Package locker systems decrease congestion and eliminate long lines.

INCREASE CUSTOMER BASE
Increase customer satisfaction with an efficient solution for storage and/or pickup.
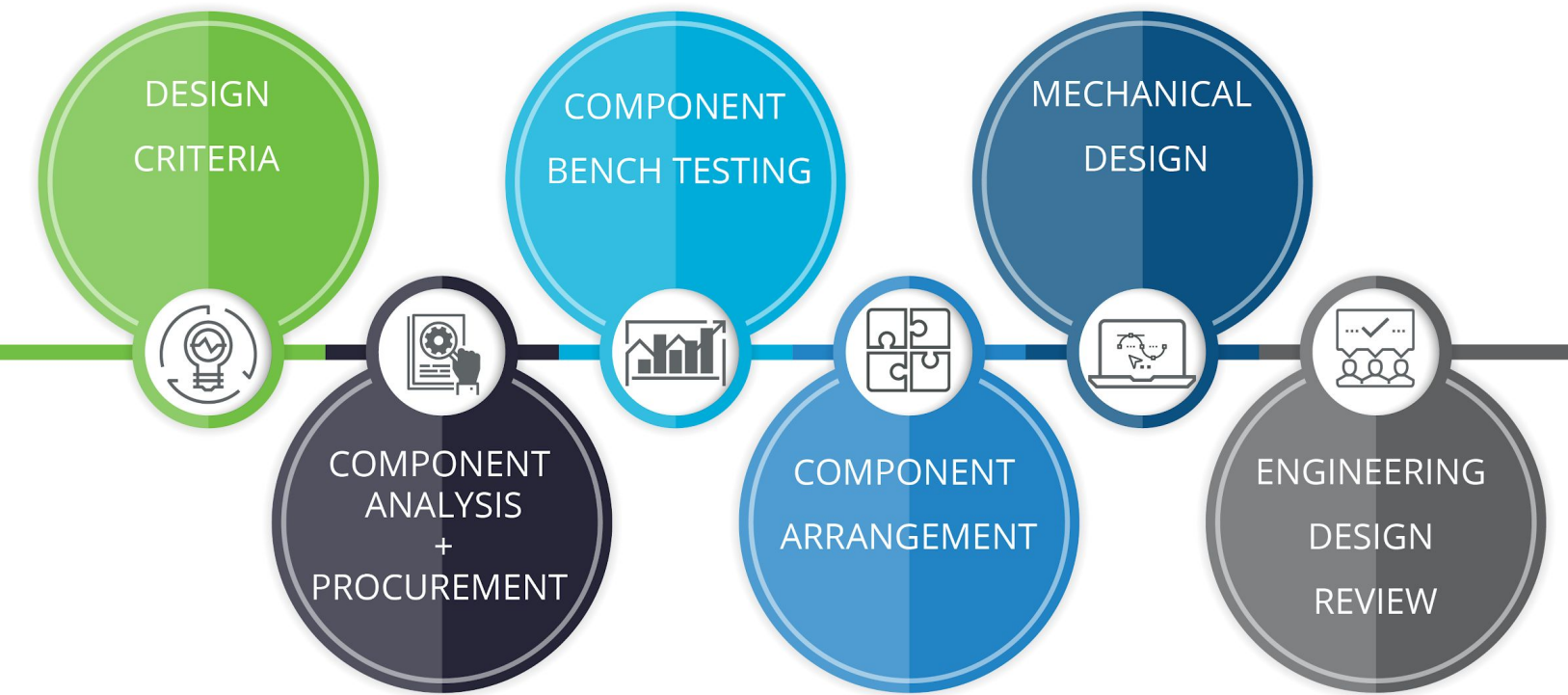
REDUCE OVERHEAD COSTS
Reduce overhead costs by increasing order output without increasing costs.

Optional WebCam / Security Camera

15" LCD Interactive Touch Screen Display

Integrated Infrared Scanner

ADA Compliant Pin Pad

Optional ADA Compliant Headphone Jack

White Powder Coated Doors Standard

Modular Doors Available in S, M, L, XL

Countless Cabinet Configurations

Black Powder Coated Chassis Standard

Optional Stainless Steel Kick Plate

MBOX

INTELLIGENT + EFFICIENT DESIGN

Meridian's engineering team uses Design Thinking to create locker solutions that help our clients address their market needs. Drawing from their breadth of locker design experience, as well as the aesthetic requirements for each project, our team creates a series of conceptual and environmental renders for review. Meridian's experienced engineers take the desired concept and create a fully functional 3D CAD model, accounting for every screw, weld point, component, bracket and hinge throughout the entire unit.

DESIGN CRITERIA

COMPONENT ANALYSIS + PROCUREMENT

COMPONENT BENCH TESTING

COMPONENT ARRANGEMENT

MECHANICAL DESIGN

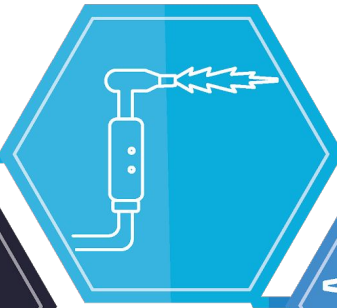ENGINEERING DESIGN REVIEW

AMERICAN ENGINEERED LOCKERS

Meridian designs, engineers, fabricates, assembles, deploys and supports self-service solutions from our 13-acre headquarters in North Carolina. Meridian is an ISO 9001:2015 certified company and UL self-certify facility. With all processes from software development to powder coating to quality control completed in house, we proudly offer American-made interactive lockers to a global marketplace. Meridian also has manufacturing capabilities across the globe.
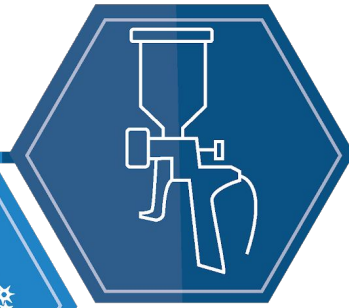
AR
ADVANTAGE ™
INTERNATIONAL REGISTRAR
ISO 9001:2015 Registered QMS

CUTTING

WELDING

PAINTING

BENDING

GRINDING

MBOX PLUS
COMPUTER-OPERATED LOCKER

mBOX Plus is a computer-operated locker system with full remote administrative functionality.

Designed to integrate with back office systems and hundreds of different components, including input devices, proximity sensors, scanners, payment terminals, printers, and more, mBOX Plus provides a complete package pick-up and drop-off solution.

Flexible in nature from both a hardware and software perspective, operators can utilize Meridian's Locker Software Development Kit (SDK) to create and customize their own software application. The Software Development Kit can also integrate with Meridian's MzeroManage remote management software to allow operators to monitor and manage multiple kiosks in remote locations.

Customers can use the mBOX Plus to both conveniently pay for and pick up their packages while operators can ensure that all lockers are running smoothly, regardless of their location.

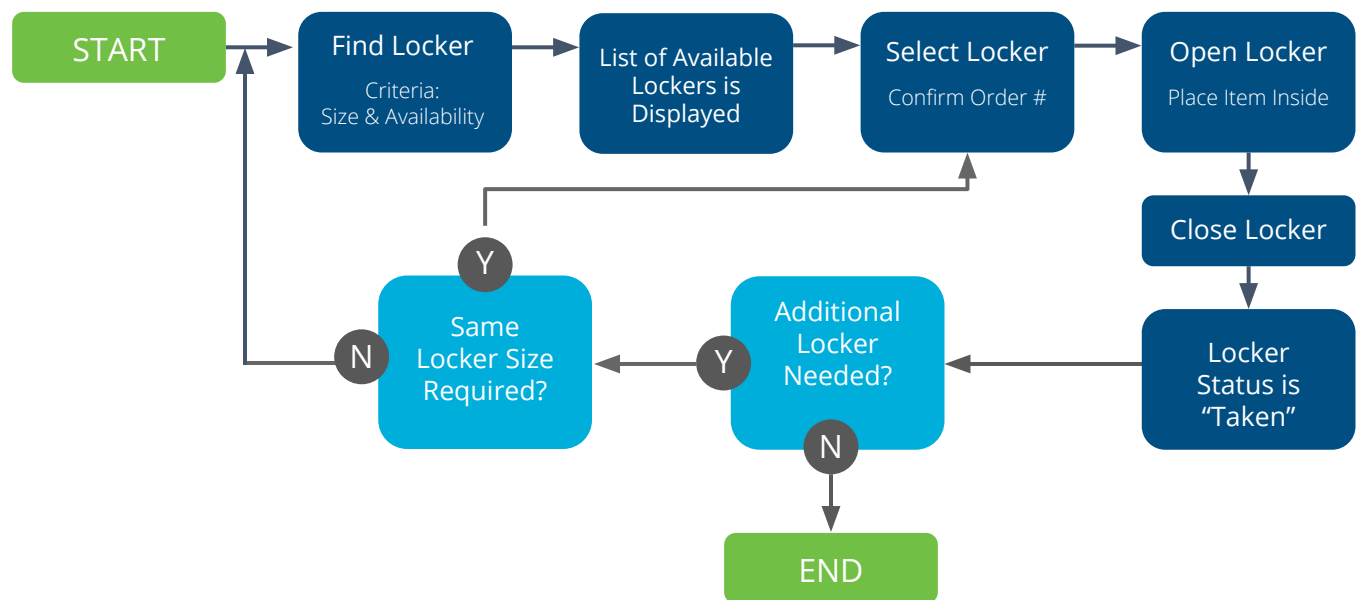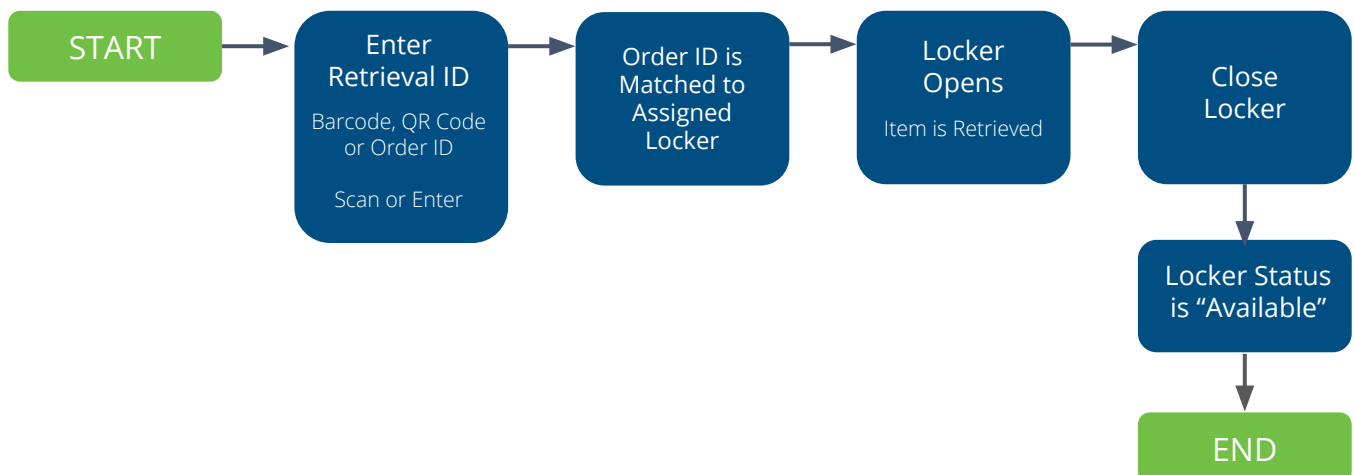| FEATURES INCLUDE	AVAILABLE PERIPHERALS	DISPLAY SIZE*
Durable, Steel Enclosure	IP65 Rugged Keyboard	15-Inch Touch Standard
Easy Open Lockers	Proximity Sensor	Additional Sizes Available
Durable Powder Coat	Optical 1D/2D Scanner	
Tamper Resistant Locks	EMV2 Payment Terminal	*Compatible with multiple
Modular, Future Proof Design	Thermal Receipt Printer	screen manufacturers.

6

mBOX PLUS LOCKER SOFTWARE

ORDERING PROCESS DIAGRAMS | COMPUTER-MANAGED SMART LOCKER

The "fulfillment" and "retrieval" processes outlined below are provided as a representation of order flow and can be customized to meet your organization's specific needs through the Mzero Locker SDK. Designed to integrate with back office systems and hundreds of different components, including input devices, proximity sensors, scanners, payment terminals, printers, and more, mBOX Plus provides a completely customizable package pick-up and drop-off solution.

ORDER FULFILLMENT

START → Find Locker (Criteria: Size & Availability) → List of Available Lockers is Displayed → Select Locker (Confirm Order #) → Open Locker (Place Item Inside) → Close Locker → Locker Status is "Taken" → Additional Locker Needed? — Y → Same Locker Size Required? — Y → Select Locker; N → START; Additional Locker Needed? — N → END

ORDER RETRIEVAL

START → Enter Retrieval ID (Barcode, QR Code or Order ID; Scan or Enter) → Order ID is Matched to Assigned Locker → Locker Opens (Item is Retrieved) → Close Locker → Locker Status is "Available" → END

CUSTOM SOFTWARE (SDK)

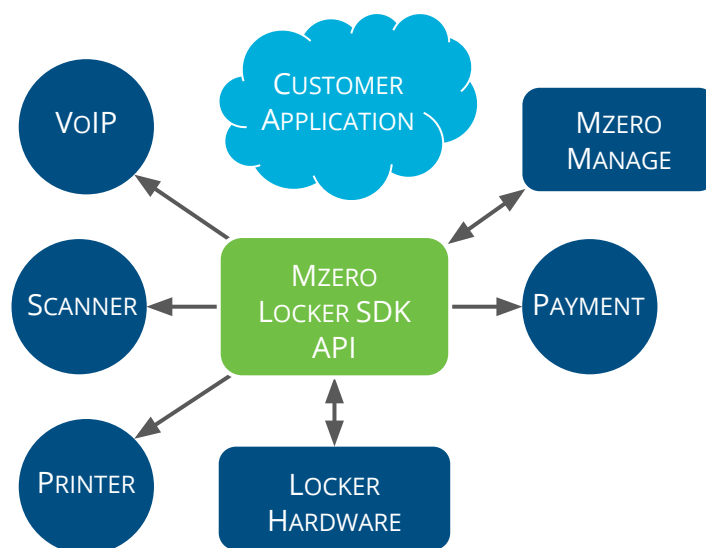**SMART LOCKER SOFTWARE DEVELOPMENT KIT***

When launching their mBOX solution, customers are able to create their own application from Meridian's Software Development Kit (SDK), MzeroCreate. MzeroCreate provides the programming interface integration that allows full customization of the locker solution platform. It also has the capability to integrate the locker hardware itself—printers, scanners, VoIP, additional digital signage, and payment acceptors of all kinds including cash, credit, debit, check, and mobile—into the locker system.

" Most of the heavy lifting is done for you. You simply plug (the SDK) into an HTML-based front end with MzeroCreate or add it to your website.

- PAUL BURDEN
DIRECTOR OF SOFTWARE

FUNCTIONALITY

The Mzero Locker SDK utilizes three simple commands as the basis of the application: 'Status,' 'Store,' and 'Retrieve.'

➔ The 'Status' command allows the operator to assess the inventory of all the lockers.
➔ The 'Store' command scans the tracking number and opens an available door so that an operator can place a package inside.
➔ The 'Retrieve' command enables the customer to scan a delivery notice which will open the locker door associated with their order.

Meridian's mBOX software solution currently has the capability to support units with up to 70 individual lockers per PC.

mzero lockerSDK

SDK INTEGRATION OPTIONS

SMART LOCKER SOFTWARE DEVELOPMENT KIT*

The Mzero Locker SDK allows for rapid development of smart locker applications and integration with hundreds of hardware components. Integration points already built into the SDK include:

Category	Component
Inputs	Touch Screen
Inputs	Keyboard
Inputs	Voice Prompts
Inputs	Headphone Jack
Inputs	Tactile Navigation
Inputs	Scanner
Communication	Help Calls (VOIP)
Communication	Optional Video Call
Identity Scanning	Driver's License
Identity Scanning	HID Access Card
Identity Scanning	Loyalty Cards
Security	Camera
Security	Door Sensors
Security	Intrusion Sensors
Security	Tilt Sensors
Security	Transaction Receipts
Security	Pickup Receipts

" [The SDK] has the capability to integrate the locker hardware itself—printers, scanners, VoIP, and payment acceptors of all kinds including cash, credit, debit, check, and mobile — into the locker system.

mzero° lockerSDK

mzeromanage
REMOTE MONITORING

MzeroManage is Meridian's proprietary remote monitoring software, designed to enable locker administrators to monitor and manage multiple locker deployments from remote locations.

MzeroManage aggregates all the inventory of the smart locker system into a single database in real time, giving administrators the peace of mind that everything is running smoothly, even when they're offsite. The heartbeat confirms that your system is always running and healthy.

Available Alerts

➔ Locker Status - Reports the status of all lockers (Open, Closed, Full, Empty, Assigned, Unassigned).
➔ Door Open Alerts - Reports if a locker door is left open after the transaction is completed.
➔ Abandoned Article Alert - Reports if an item has been left in a locker beyond a specific time frame.
➔ Usage Reports - Details the interactions that have been made with the smart locker system.
➔ MzeroManage also includes a wide variety of additional alerts to keep administrators informed.

Remote Triggering (Over Secure Network)

➔ Door Open Command - Administrators can remotely open locker doors over the secure MzeroManage network.
➔ Real Time Status Confirmations - Administrators can remotely view the status of all locker pick-ups, drop-offs and access, as well as overall state of health.

mBOX LITE

LOCAL BOARD-OPERATED LOCKER

mBOX Lite is a local board-operated locker system, providing a simple and seamless user experience.

Utilizing the board and scanner for programming and interactions, the operator assigns a locker by scanning a barcode or entering an order number, and either places the order inside the locker, schedules a drop-off, or assigns the number to that individual for long term use of the locker box. The customer then scans their barcode or enters their number upon arriving at the mBOX, prompting the assigned locker to automatically open.

Administrators can utilize specific administrator codes to access lockers, reset locker codes and service the unit.

AVAILABLE PERIPHERALS

- Proximity Sensor
- Optical 1D/2D Scanner

DISPLAY

The mBOX Lite utilizes an 8" interactive LCD touch screen.

FEATURES INCLUDE

Durable, Steel Enclosure

Easy Open Lockers

Antimicrobial Powder Coat

Tamper Resistant Locks
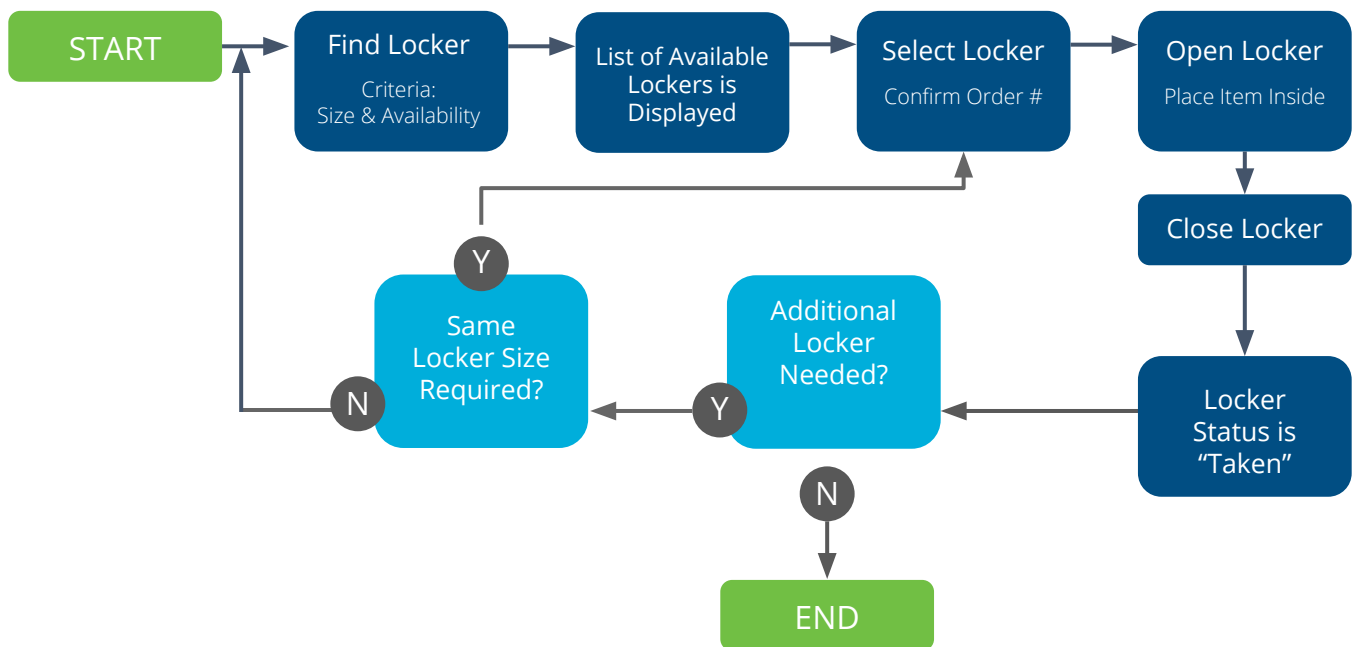
Modular, Future Proof Design
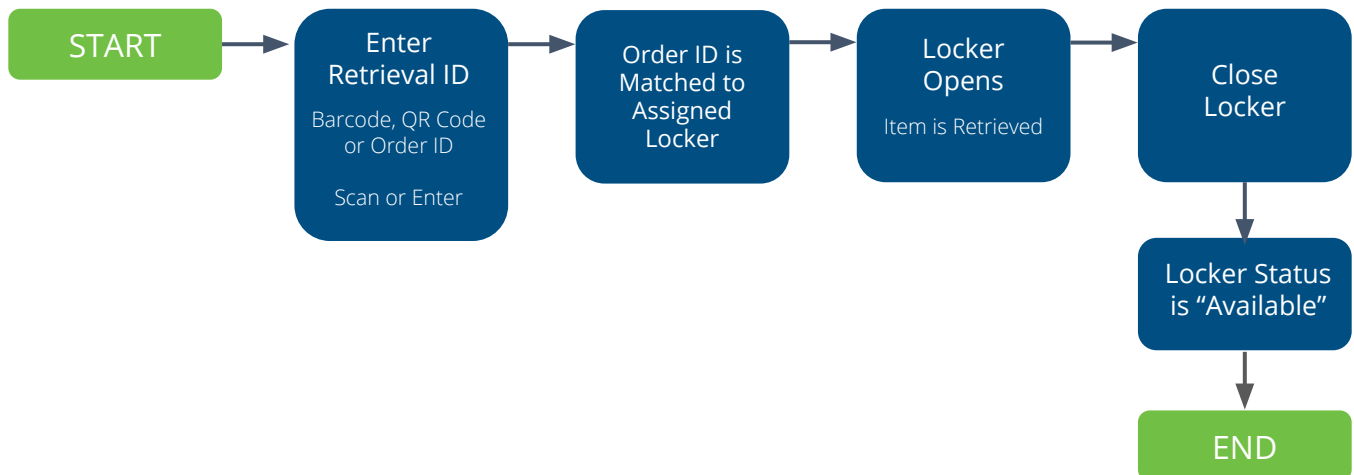
mBOX

mBOX LITE SOFTWARE

ORDERING PROCESS DIAGRAMS | LOCAL BOARD LEVEL SYSTEM

The "fulfillment" and "retrieval" processes outlined below cannot be modified on mBOX Lite smart lockers. The computer-managed mBOX Plus offers additional customization and flexibility.

ORDER FULFILLMENT

ORDER RETRIEVAL

MODULAR LOCKER SYSTEMS

AVAILABLE LOCKER DOOR SIZES

SMALL DOORS

The "small" locker compartments measure approximately 17.5" W x 4.25" H x 24" D. The locker will always include a medium (or larger, if specified) door at the top of the chassis to ensure accessible reach.

Small doors occupy one vertical slot.

S

MEDIUM DOORS

The "medium" locker compartments measure approximately 17.5" W x 9" H x 24" D.

Medium doors occupy two vertical slots.

M

MBOX

MODULAR LOCKER SYSTEMS

AVAILABLE LOCKER DOOR SIZES

LARGE DOORS

The "large" locker compartments measure approximately 17.5" W x 18" H x 24" D.

Large doors occupy four vertical slots.

L

EXTRA LARGE DOORS

The "extra large" locker compartments measure approximately 17.5" W x 54.5" H x 24" D.

XL

Extra Large doors occupy twelve vertical slots.

MODULAR LOCKER SYSTEMS

AVAILABLE LOCKER DOOR SIZES

DOOR SIZES AND CONFIGURATIONS

Small, medium and large locker door sets can be combined to create a complete locker solution that meets the needs of any organization. Sizes shown below are simply representative of available options. Full customization of modules is available.
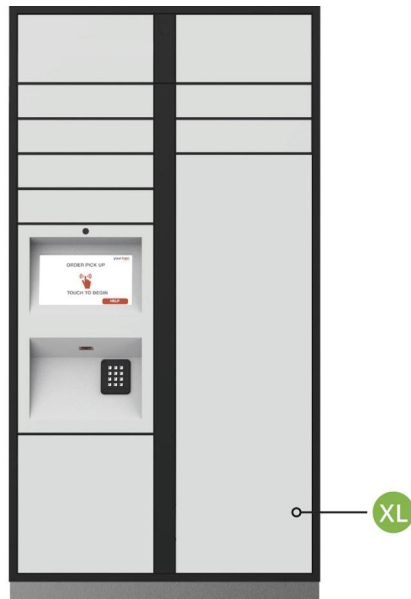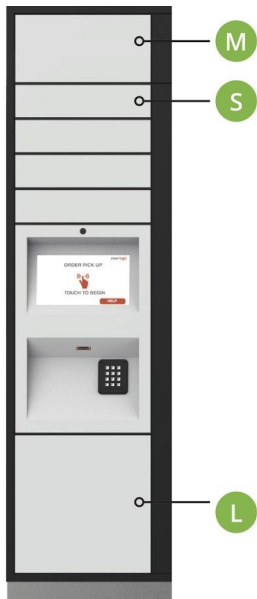
DOOR SIZE	# OF SLOTS	MAX DOORS ON SOLO	MAX DOORS ON DUO	MAX DOORS ON TRIO	MAX DOORS ON QUAD
S	1	8 S + 1 M	22 S + 2 M	36 S + 3 M	50 S + 4 M
M	2	5 M	13 M	21 M	29 M
L	4	1 M + 2 L	1 M + 6 L	1 M + 10 L	1 M + 14 L
XL	12	---	1 M + 3 L + 1 XL	1 M + 4 L + 2 XL	1 M + 5 L + 3 XL

S x 2 = M   M x 2 = L   L x 3 = XL

NOTES:
Top doors must always be medium or large, to accommodate reach height restrictions. Sixteen (16) total vertical slots per column.

LOCKER CUSTOMIZATION

AVAILABLE CUSTOMIZATIONS

STANDARD POWDER COAT COLORS

EPA Approved

No Solvents or VOCs

Fade Resistant

Durable

Easily Cleaned

Anti-Microbial Available

Additional colors available.
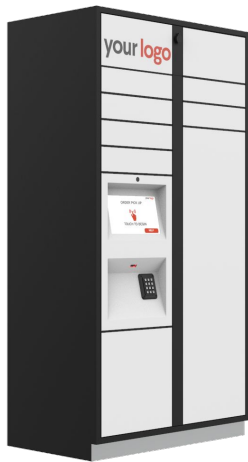*Small batch custom paint*
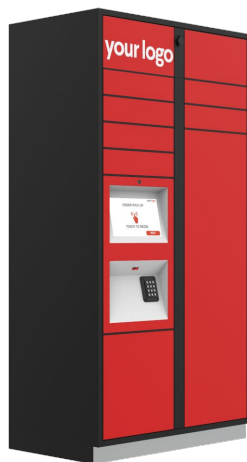*fees may apply.*

Raven Black
Frame and Shelves

Whisper White
Locker Doors

GRAPHIC CUSTOMIZATION

your logo

your logo

your logo

Partial Wrap | Logo Only

Half Wrap | All Locker Doors

Full Wrap | Locker Doors & Chassis

Lexan Lamination | EPA Approved | No Solvents or VOCs | Fade Resistant Ink | Durable and Easily Cleaned

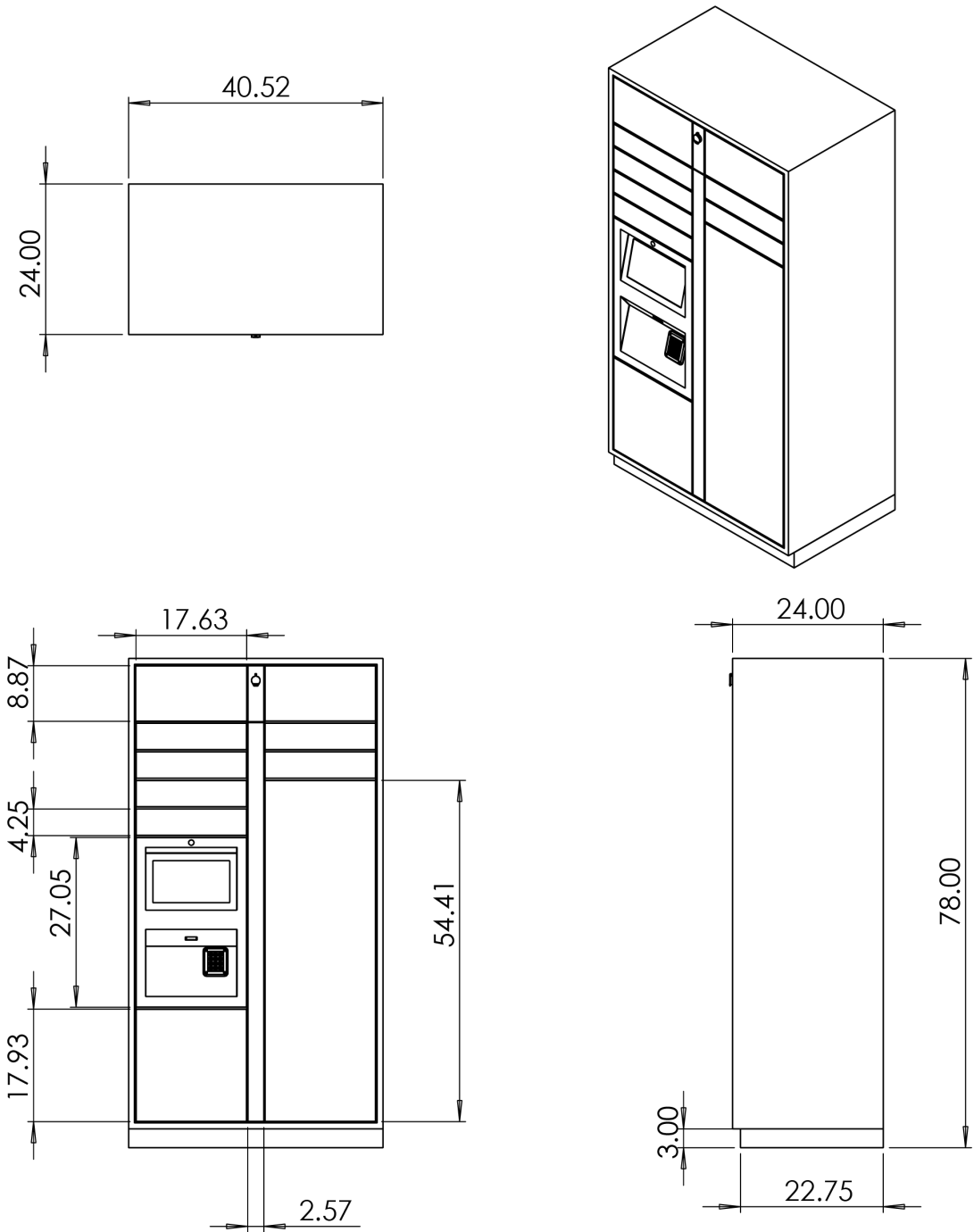*Custom printed by the Meridian print shop at our headquarters in Aberdeen, NC.*

MODULAR LOCKER SYSTEMS

STANDARD DIMENSIONS

STANDARD "DUO" LOCKER DIMENSIONS

Dimensions shown on this page are for a standard locker with indoor control panel. Each additional expansion locker will add 40.5" to the overall width of the unit. Depth and height remain the same for all configurations.
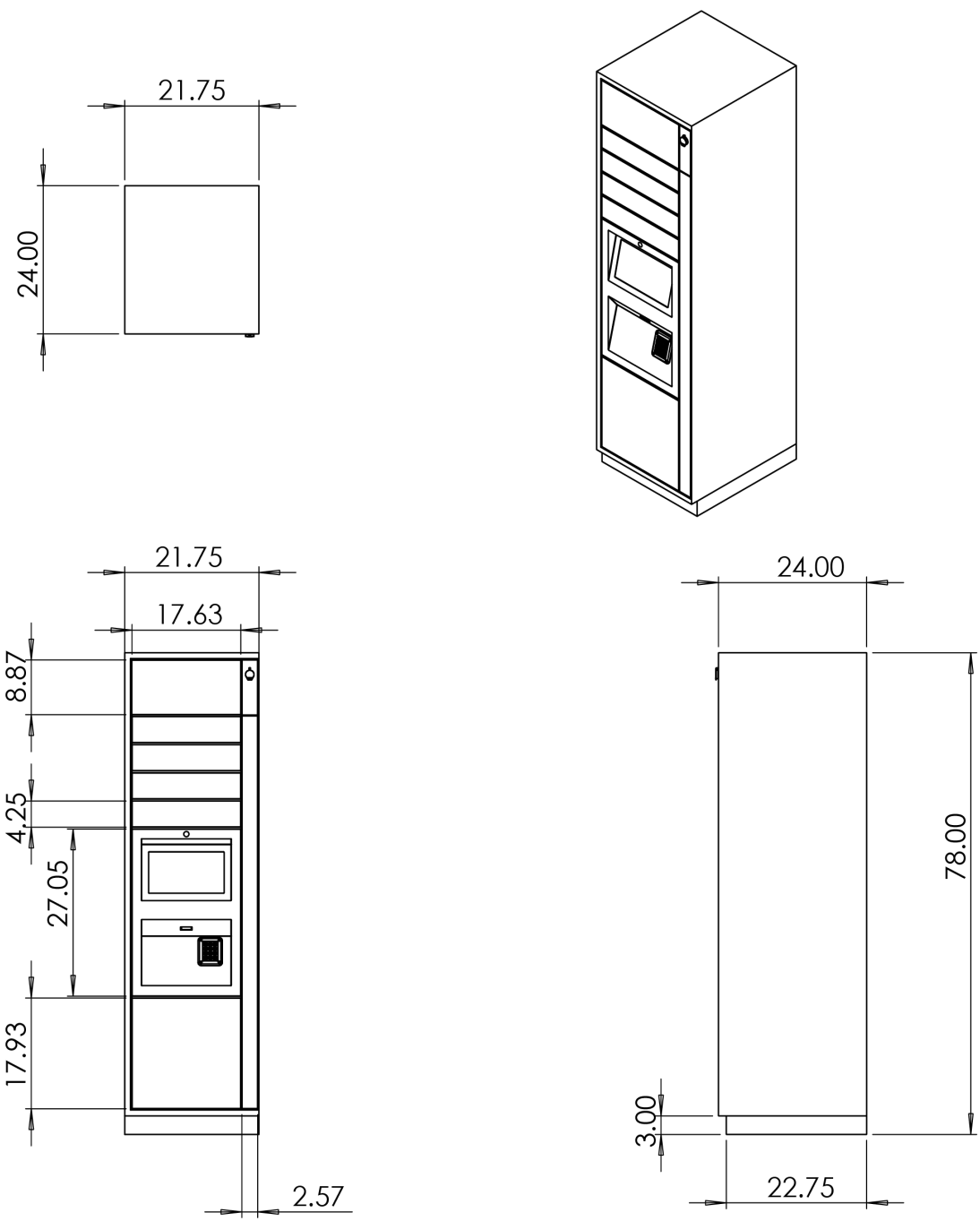
Exact dimensions subject to change. Final drawings will always be provided to customer for approval prior to fabrication.

MODULAR LOCKER SYSTEMS

STANDARD DIMENSIONS

STANDARD "SOLO" LOCKER DIMENSIONS

Dimensions shown on this page are for a standard locker with indoor control panel. Each additional expansion locker will add 40.5" to the overall width of the unit. Depth and height remain the same for all configurations.

Exact dimensions subject to change. Final drawings will always be provided to customer for approval prior to fabrication.

MERIDIAN
CONCEPT TO COMPLETION

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