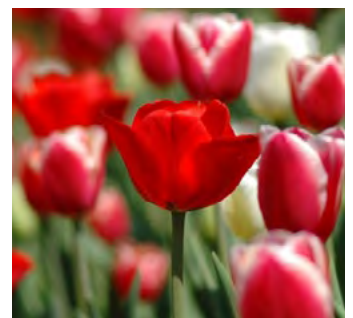
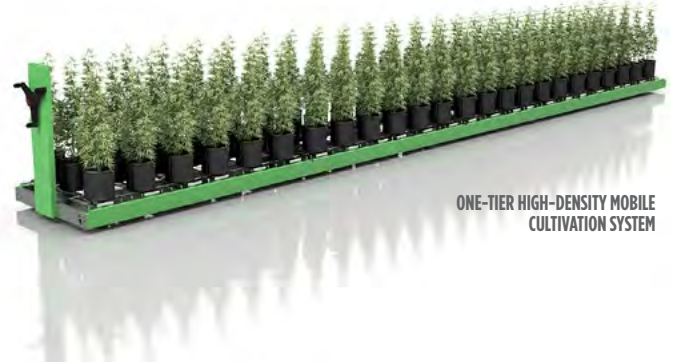




# HIGH-DENSITY VERTICAL GROWING SYSTEMS



# IT'S ALL ABOUT GRAMS PER CUBIC FOOT



ONE-TIER HIGH-DENSITY MOBILE CULTIVATION SYSTEM

## MAXIMIZE GROWING CAPACITY WITH MINIMAL WATTAGE

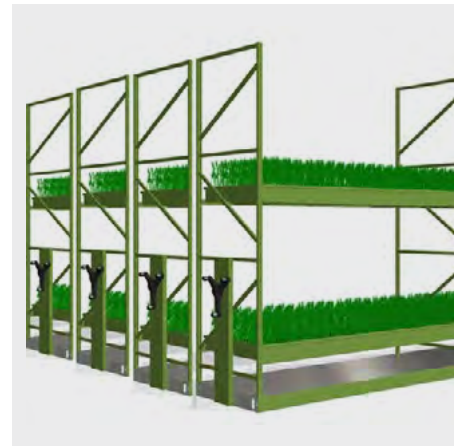
Over the years of designing storage applications for a broad range of markets including agriculture, Montel has developed a full line of high-density vertical growing systems that will address your grow operation priorities: save energy, optimize space, maximize vertical growing, maximize profits, and improve security. Our vertical growing solutions will provide for a more organized facility that will increase workflow, production, and profits.

## HYDROPONIC OR SOIL GROWING SOLUTIONS CUSTOM-BUILT FOR YOUR INDUSTRY

- GROWERS (GREENHOUSES)
- AGRICULTURE RESEARCH INSTITUTES AND LABORATORIES (AgTech)
- MEDICAL CANNABIS (WHERE LEGALIZED)
- RECREATIONAL CANNABIS (WHERE LEGALIZED)
- UNIVERSITIES - DEPARTMENTS OF PLANTS SCIENCE



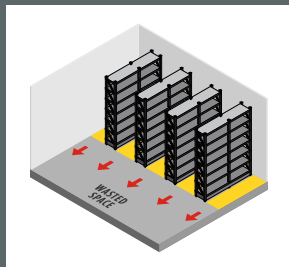
SOIL VERTICAL GROWING SOLUTIONS. SAFEAISLE® POWERED VERTICAL GROWING MOBILE SYSTEM.



HYDROPONIC VERTICAL GROWING SOLUTIONS. MOBILE® WITH TRAYS ON 4D WIDE SPAN RACKING

## MOBILIZE IT! GENERATE PROFITS FROM YOUR SQUARE FOOTAGE

Eliminate the need for multiple space-wasting static aisles and use the total potential of your vertical and horizontal space with GREENRAK™ high-density growing solutions.



STATIC RACKING  
SPACE-WASTING STATIC AISLES



MOBILE RACKING  
50% FREED UP SPACE  
SAVE SPACE  
INCREASE PROFITS



MOBILE RACKING  
100% GREATER STORAGE CAPACITY  
DOUBLE STORAGE CAPACITY  
MAXIMIZE SPACE  
MAXIMIZE PROFITS

# TAKE GROWING TO A NEW LEVEL

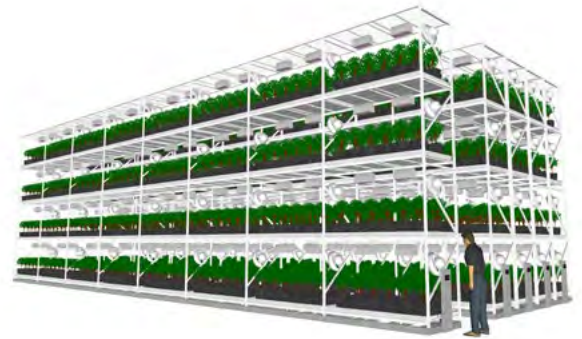
MAXIMIZE VERTICAL AND HORIZONTAL GROWING.  
MAXIMIZE PROFIT. MAXIMIZE WORKFLOW.

## MONTEL MULTI-FUNCTIONAL HIGH-DENSITY CULTIVATION SOLUTIONS

Discover new square footage you didn't know you had and reap the benefits in terms of better service and more sales with Montel's configurable, space-saving solutions. We're the one-stop shop for all your agricultural growing needs.



TWO-TIER HIGH-DENSITY MOBILE VERTICAL GROWING SYSTEM



MULTI-TIER HIGH-DENSITY MOBILE VERTICAL GROWING SYSTEM  
RACK&ROLL 16P SHOWN WITH 4 LEVELS HIGH 4D WIDE SPAN RACKING  
8 X TIMES GREATER STORAGE CAPACITY COMPARED TO STATIONARY ROWS ON THE FLOOR  
HEIGHT: 20' HIGH. LENGTH: 65' LONG

## HIGH-DENSITY SHELVING & RACKING



### SMARTSHELF® 4-POST HYBRID SHELVING

Make your shelving a perfect fit for a broad array of items with Montel's one-shelf-fits-all four-post patented hybrid system (Patent # 6,814,245). Adjust shelves at every one inch without any tools.



### 4D WIDE SPAN RACKING

Improve heavy-duty storage of irregular agriculture items with Montel's long-span, racking system.

## GROWING ACCESSORIES



### LED GROW LIGHTS

Montel provides smarter LED grow lights for indoor grow facilities available with SmartShelf® 4-post hybrid shelving systems and 4D wide span racking.



### PERFORATED SHELVES, FACE PANELS, DRAWERS, TRAYS

Made for mobile systems to enhance air flow and maximize ventilation throughout the entire storage unit.

## MOBILE VERTICAL GROWING SYSTEMS



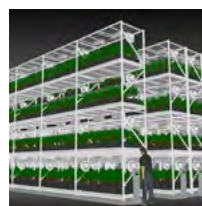
**SMARTSPACE 2M, 2MA & 2P**  
MANUAL, MECHANICAL-ASSIST,  
POWERED MOBILE SYSTEM  
2,000 LB PER BAY



**MOBILEX®**  
MECHANICAL-ASSIST  
MOBILE SYSTEM  
1,000 LB PER LINEAR FOOT



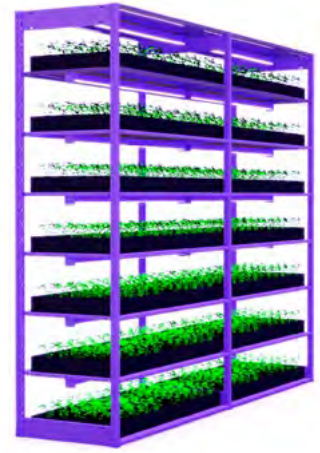
**SAFEAISLE®**  
POWERED MOBILE SYSTEM  
1,000 LB PER LINEAR FOOT



**RACK&ROLL 16MA & 16P**  
MECHANICAL-ASSIST,  
POWERED MOBILE SYSTEM  
16,000 LB PER DOUBLE BAY

# GROW MORE IN LESS SPACE

## WITH SMARTSHELF® BOLTLESS SHELVING



SMARTSHELF® 4-POST  
HYBRID SHELVING SYSTEM

### SHELVING SYSTEM WITH HOOKS: EASY TO RECONFIGURE & NO TOOLS REQUIRED

The SmartShelf® exclusive hook shelf support system provides the quickest and greatest ease of assembly, disassembly, and reassembly.

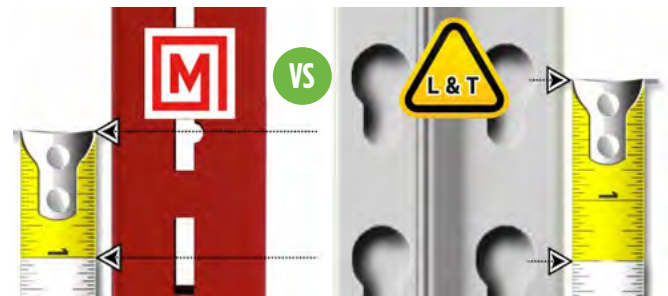
No tools, hammers or mallets needed to install, remove, or reconfigure shelves as necessary with industry typical shelf support systems.

The shelves can be conveniently put in or taken out without adjusting, tilting, or removing the shelves above or below since the box-formed posts do not impede the front of the shelf. The slide-in & slide-out capability truly reduces the time and effort to reconfigure the shelves, as there is no handling of the various shelf components.

Additionally stored objects are protected from disruption on the adjacent shelves below.



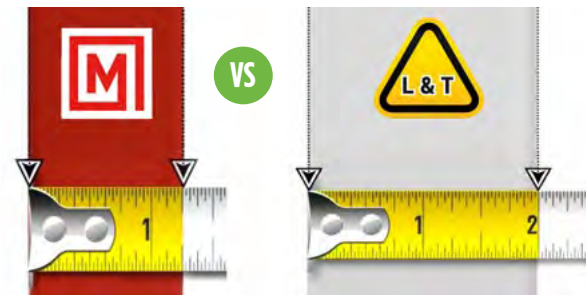
### MORE STORAGE VERTICALLY ADJUSTABLE SHELVES IN 1" (25.4 MM) INCREMENTS



1"  
SMARTSHELF® HYBRID SHELVING  
SYSTEM WITH HOOKS

1 1/2"  
L&T COMMODITY SHELVING

### MORE STORAGE HORIZONTALLY 3/4" (19 MM) MORE USABLE STORAGE PER SHELF



1 3/4"  
SMARTSHELF® HYBRID SHELVING

2"  
L&T COMMODITY SHELVING

## DO THE SMARTSHELF® MATH

100 SECTIONS OF 97" (246.38 CM) HIGH  
WITH 8 TIERS OF BACK-TO-BACK SHELVING  
UNITS WOULD REPRESENT:

8 TIERS  
X 2 BACK-TO-BACK SHELVING UNITS  
X 3/4" (19 MM) MORE STORAGE PER SHELF  
= 12" (30.48 CM) MORE USABLE STORAGE PER SHELVING UNIT  
X 100 SECTIONS

**= 1,200" (30.48 M) ADDITIONAL LINEAR INCHES  
OF STORAGE WITH SMARTSHELF® VS. L&T**

NOTE: WHAT ABOUT THE ADDITIONAL STORAGE VERTICALLY DUE TO THE 1" INCREMENTS VS. L&T AT 1 1/2" INCREMENTS. ADD THESE EXTRA LINEAR INCHES TO YOUR TOTAL.

# THE CONCEPT

## OPTIMIZE YOUR GROWING SPACE

MONTEL HIGH-DENSITY GROWING SYSTEMS MAXIMIZE THE USE OF AVAILABLE SPACE, WHETHER TO INCREASE GROWING CAPACITY, FREE UP ROOM FOR GROW OPERATIONS, OR GET RID OF SPACE YOU DO NOT NEED TO PAY FOR.

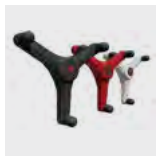
### ELIMINATE THE NEED FOR MULTIPLE SPACE-WASTING STATIC AISLES. HERE IS HOW:

1. Static units are mounted on mobile carriages.
2. Mobile carriages travel on tracks.
3. Use the handle to move the manual systems or turn the 3-spoke SafeCrank handle for mechanical-assist systems or push a button on the powered system control to open the desired aisle.

### MODES OF OPERATION



Manual mobile systems handle.



3-spoke ergonomically designed rotating SafeCrank handle with soft-touch knobs for mechanical-assist mobile systems. Aisle safety push-button located at the core of the 3-spoke SafeCrank handle.



Powered mobile systems control.



Powered mobile systems control with PIN for restricted access.

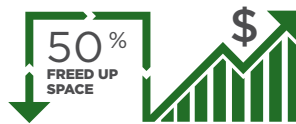
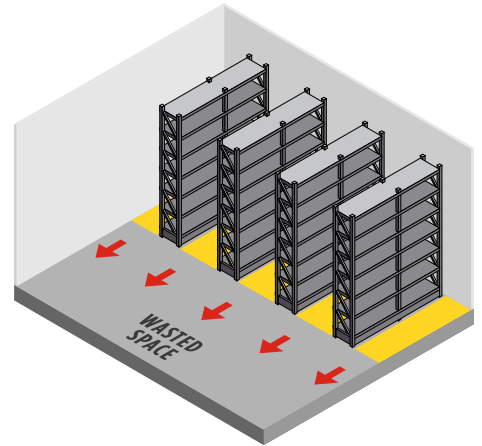


LCD touchscreen tablet control with or without PIN. Limitless customized displays.



WASTED SPACE  
CONVENTIONAL FIXED RACKING LAYOUT.

Conventional growing systems require space-wasting fixed aisles.



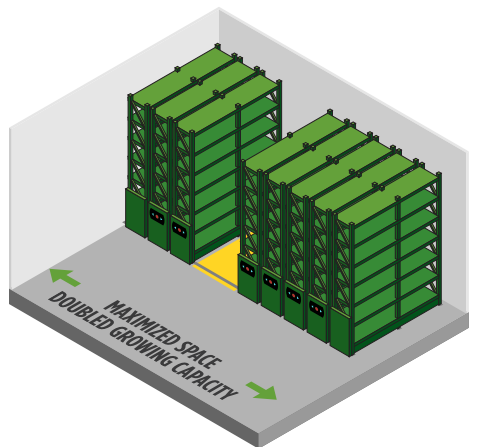
SPACE SAVED & INCREASED PROFITS  
MOBILE SYSTEM LAYOUT.

Montel's high-density growing systems save up to 50% of your floor space in most cases, and accommodate growth for other uses while increasing revenue.



DOUBLED GROWING CAPACITY.  
MAXIMIZED SPACE & INCREASED PROFITS  
MOBILE SYSTEM LAYOUT.

100% greater growing capacity within the original floor space, eliminating the need for a costly expansion or the construction of a new facility.




PRODUCTIVITY AND TECHNOLOGY

# INCREASE PRODUCTIVITY WIRELESSLY

PAIRS WITH  
SMARTSPACE 2P  
SAFEAISLE®  
RACK&ROLL 16P



 **ePulse™**



Wi-Fi



## ePulse™ REMOTE MONITORING SOFTWARE

This remote monitoring & configuration software has the functionality of providing the capability to manage settings remotely and monitor your high-density powered mobile system's performance and operations with assurance.



## PROGRAMMABLE AISLE AUTOMATED FEATURES

Users can increase their efficiency by configuring a specific priority aisle(s). While accessing an infrequently used aisle, SmartSpace 2P, SafeAisle® and RACK&ROLL 16P mobile racking automatically repositions the system to your designed predetermined aisle(s).



## REMOTE CONTROL

Operators can operate the mobile system remotely with a commercial or industrial rugged remote control mini tablet.

## SAFETIES

# BEST IN-CLASS SAFETIES

## SAFETY FEATURES FOR HIGH-DENSITY MOBILE VERTICAL GROWING SYSTEMS



SAFECRANK WITH AISLE SAFETY PUSH-BUTTON FOR MECHANICAL-ASSIST MOBILE GROWING SYSTEMS

### MANUAL SYSTEMS

#### OPTIONAL SAFETY



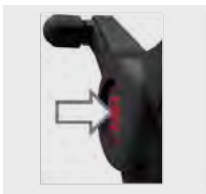
#### FOOT-LATCH

Montel's foot-latch safety for manual SmartSpace mobile growing systems is the ideal option to prevent the mobile system from moving. Engaging the foot-latch safety before entering an aisle prevents other users from operating a system already in use.

SMARTSPACE 2M

### MECHANICAL-ASSIST SYSTEMS

#### STANDARD SAFETY



#### SAFECRANK SAFETY PUSH-BUTTON HANDLE

To operate the system, rotate the SafeCrank handle clockwise or counterclockwise. To lock or unlock the SafeCrank handle, simply press the aisle safety push-button located at the center of the handle.

SMARTSPACE 2MA | MOBILEX® | RACK&ROLL 16MA

#### OPTIONAL SAFETY



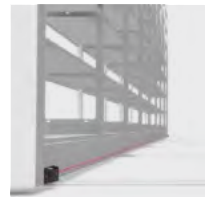
#### GRAVITY-FED MECHANICAL SAFETY BRAKE

Montel's patented mechanical safety brake ensures complete protection for users and objects. The toe-level bar, when pressed, will automatically stop the carriage.

MOBILEX®

### POWERED SYSTEMS

#### STANDARD SAFETIES

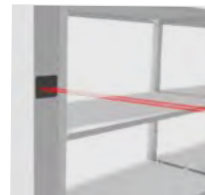


#### INFRARED FOOT-LEVEL SAFETY BEAM

ONE SIDE OF MOBILE CARRIAGE

Photoelectric beam projecting on one side of each aisle is mounted low on the carriage side member.

SMARTSPACE 2P | SAFEAISLE® | RACK&ROLL 16P

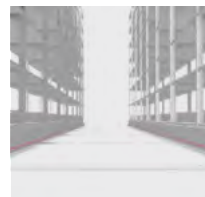


#### AISLE-ENTRY PEOPLE COUNTER

Carriage movement instantly stop when the system detects any beam disruption in front of the mobile system when a user is entering an aisle.

SMARTSPACE 2P | SAFEAISLE® | RACK&ROLL 16P

#### OPTIONAL SAFETY



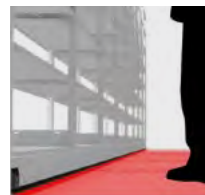
#### INFRARED FOOT-LEVEL SAFETY BEAMS

BOTH SIDES OF MOBILE CARRIAGE

Photoelectric beams projecting on both sides of each aisle are mounted low on the carriage side members.

SMARTSPACE 2P | SAFEAISLE® | RACK&ROLL 16P

#### ADVANCED OPTIONAL SAFETY



#### LED GUARD™ COMPLETE AISLE DETECTION PASSIVE SAFETY\*

100% safety coverage. Prevents any carriage movement when a forklift operator, a user or supply materials are located anywhere within the aisle.

SMARTSPACE 2P | SAFEAISLE® | RACK&ROLL 16P

\* Aisle LED Guard™ is patented.

CASE STUDIES

# CANNABIS MOBILE VERTICAL GROWING SYSTEM BY MONTEL

MONTEL MOBILE VERTICAL GROWING SOLUTIONS  
MET THIS CANNABIS DISPENSARY'S HIGH STANDARDS







THE GROVE™



LAS VEGAS, NEVADA, USA



SAFEAISLE® POWERED MOBILE VERTICAL GROWING SYSTEM

“ With powered mobile racking, The Grove effectively doubled its on-site yield. It’s all about your grams per watt... and your grams per square foot. ”

### CHALLENGES

The legal cannabis industry has taken root across the U.S. as this once black-market drug has gained national recognition for its medicinal and recreational uses.

Business has been booming for The Grove, a medical marijuana dispensary just outside the Las Vegas strip. While many of its successes can be attributed to its attention to growing plants naturally and sustainably, The Grove sought to enhance its use of space to deliver even greater efficiency.

### SOLUTIONS

Montel stepped in to help The Grove managers design the ideal grow operation based on their industry’s unique needs. After everything was said and done, Montel installed 29 42-foot long carriages spread across four rooms, increasing The Grove’s storage capacity to over 6,380 square feet with Montel’s powered mobile racking.

### PRODUCT FEATURES

For its 16,000-square-foot cannabis storage facility, The Grove chose powered mobile racking installations to optimize space in its three flower rooms (1,392 plants each for a total of 4,176) and a vegetation room, with plans to expand operations by another three flower rooms. By installing powered mobile racking throughout its facility, The Grove will reach a capacity of more than 8,352 plants!

### BENEFITS

The Grove’s powered mobile racking installations carry more than plants, but also water reservoirs, fuse boxes, fans, hoses and other equipment. Traditionally, prefabricated shelving might not have withstood the weight of all these different components. However, Montel’s mobile racking systems provide literal tons of holding power, and its highly customizable frame makes it simple for owners to organize their grow rooms as they please.

“ If there is a power outage or if we need to get into the system for any reason, there is a manual overdrive that we can just put a ratchet in, and we can manually move the mobile racking with very little effort. ”



MECHANICAL RATCHET BACKUP



# WE BUILD SATISFACTION

Since 1924, Montel has pioneered high density mobile storage systems providing cost-efficient storage solutions using less space.

## CUSTOM-BUILT FOR YOUR INDUSTRY

WE'VE MANUFACTURED AND INSTALLED THOUSANDS OF PROJECTS AROUND THE WORLD.



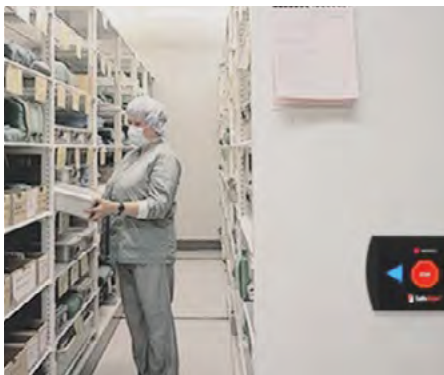
MOBILEX® MECHANICAL-ASSIST MOBILE SYSTEM WITH 4D WIDE SPAN RACKING



SMARTSHELF 4-POST HYBRID SHELVING SYSTEM



SAFEAISLE® POWERED MOBILE SHELVING SYSTEM



SAFEAISLE® POWERED MOBILE SHELVING SYSTEM



MOBILEX® MECHANICAL-ASSIST MOBILE SHELVING SYSTEM



SAFERAK® POWERED MOBILE RACKING SYSTEM FOR COLD STORAGE

## WHAT ELSE DO WE DO?

STORAGE SOLUTIONS THAT HELP YOU TO GROW FROM THE INSIDE, OPTIMIZE AND GET RESULTS.



HEAVY-DUTY MOBILE RACKING SYSTEMS



SHELVING SYSTEMS



INDUSTRIAL MODULAR DRAWERS



CABINETS



WORKBENCHES



HANGING STORAGE SCREENS & PANELS

# WHY CHOOSE MONTEL HIGH-DENSITY SOLUTIONS FOR GROW OPERATIONS? SAVE SPACE | SAVE TIME | SAVE MONEY



## GET RESULTS FROM YOUR SQUARE FOOTAGE: FAST ROI

Save up to 50 % of your value  
generating space.



## WORK WITH STORAGE-SAVVY EXPERTS

We manufacture the one and  
only solution. The best one.



## TOTAL OFFER CUSTOMIZED TO YOUR NEEDS

We will go to any length, depth,  
width or height.



## BETTER ORGANIZE YOUR SKUs

Gain productivity while inventory  
management & security are improved.



## MEET YOUR ENVIRONMENTAL OBJECTIVES

Minimize your environmental impact  
by reducing your footprint.

# OUR MISSION

## THE EMPLOYEES OF MONTEL SET OUT A VERY PERSONAL OBJECTIVE: BUILD THE BEST STORAGE SYSTEMS IN THE WORLD.

Their talent, commitment and dedication have been put to  
the test numerous times.

At Montel, client satisfaction is an ongoing priority. Our highly  
competent Authorized Montel Distributors are specialists in providing  
turnkey project solutions including space planning, design and floor  
loading consulting services, and factory certified system installations.  
They are also committed to providing a high level of professionalism  
and an outstanding customer service before and after the sale.

## MONTEL INTERNATIONAL PRESENCE



**68**  
COUNTRIES

MONTEL ACHIEVED PRESTIGIOUS  
REALIZATIONS IN MORE THAN  
68 COUNTRIES

**65**  
DISTRIBUTORS

65 AUTHORIZED  
MONTEL DISTRIBUTORS  
AROUND THE WORLD

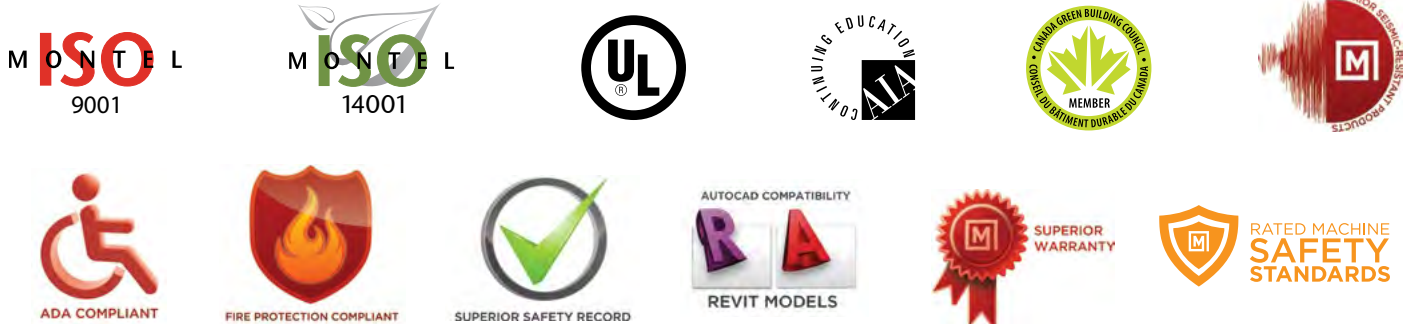
**SINCE**  
**1924**

MORE THAN 9 DECADES  
OF INNOVATIVE  
STORAGE SOLUTIONS



# GREENRAK™

## CERTIFICATIONS & STANDARDS



For the most recent version of this document, please go to the Montel website at [www.montel.com/en/design-center](http://www.montel.com/en/design-center). In case of discrepancy, the web version takes precedence over any printed literature.



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