



HIGH-DENSITY VERTICAL GROWING SYSTEMS



IT'S ALL ABOUT GRAMS PER CUBIC FOOT



MAXIMIZE GROWING CAPACITY WITH MINIMAL WATTAGE

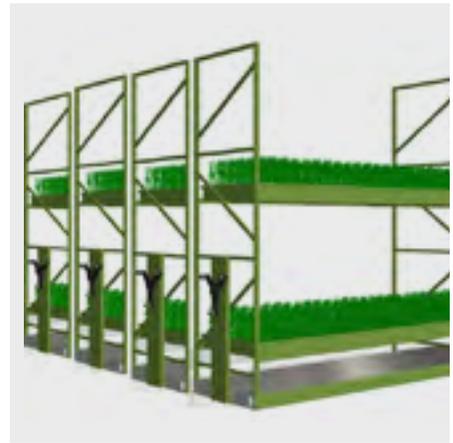
Over the years of designing storage applications for a broad range of markets including agriculture, Montel has developed a full line of high-density vertical growing systems that will address your grow operation priorities: save energy, optimize space, maximize vertical growing, maximize profits, and 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



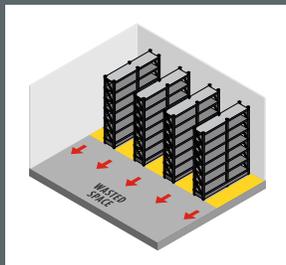
SOIL VERTICAL GROWING SOLUTIONS. SAFEAISLE® POWERED VERTICAL GROWING MOBILE SYSTEM.



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



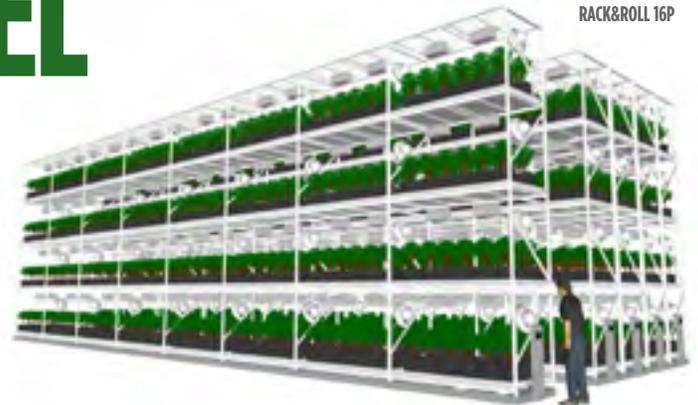
MOBILE RACKING
100% GREATER STORAGE CAPACITY
DOUBLE STORAGE CAPACITY
MAXIMIZE SPACE
MAXIMIZE PROFITS

TAKE GROWING TO A NEW LEVEL

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

MONTEL MULTI-FUNCTIONAL HIGH-DENSITY CULTIVATION SOLUTIONS

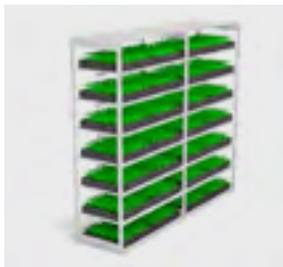
Discover new square footage you didn't know you had and reap the benefits in terms of better service and more sales with Montel's configurable, space-saving solutions. We're the one-stop shop for all your agricultural growing needs.



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 & PANELS

Perforated shelving and end panels for mobile systems to enhance air flow and maximize ventilation throughout the entire storage unit.

MOBILIZE YOUR GROW OPERATION

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



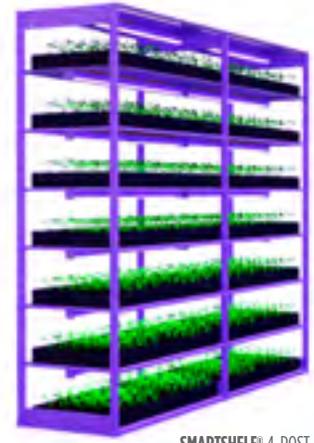
SAFEAISLE®
POWERED MOBILE SYSTEM
1,000 LB PER LINEAR FOOT



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

Montel has designed the most versatile vertical growing shelving system. You can reconfigure it any time according to your changing growing needs and available space. This also enables you to anticipate your potential grow needs.

FLEXIBLE SHELVING SYSTEM DESIGNED TO BE CONFIGURED AND RECONFIGURED EASILY

EASY SHELF REMOVAL - CLOSED RECTANGULAR POST VS L&T SHAPE CUMBERSOME POST



- You only need to remove the shelves horizontally. It is very easy to adjust a shelf with 4 simple hooks.



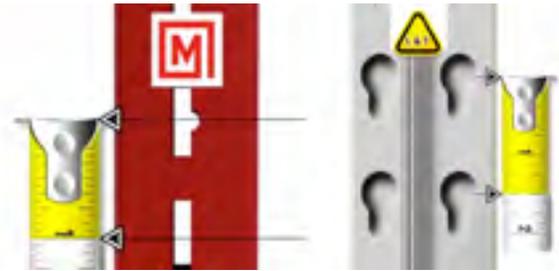
- The unique closed-post design provides easy access to all stored objects as their accessibility is not impeded behind the industry standard's "L" and "T" uprights. Additionally, Montel SmartShelf shelves are not tucked behind the closed-post uprights. They do not require to be tipped for removal or adjustment, nor do adjacent shelves need to be displaced to allow clearance for a tipped shelf's removal.



NO TOOLS REQUIRED

GREATER GROW SPACE PER SHELF HORIZONTALLY AND PER UNIT VERTICALLY

VERTICAL SHELF ADJUSTMENT AT EVERY 1" (25.4 MM) INCREMENTS*



SmartShelf® = 1" (25.4 mm) vs. L&T = 1 1/2" (38.1 mm)

MAXIMIZE YOUR GROWING SPACE**

3/4" (19 MM) MORE USABLE GROW SPACE PER SHELF WITH SMARTSHELF® VS. L&T



SmartShelf® = 1 1/4" (31.75 mm) vs. L&T = 2" (50.8 mm)

DO THE SMARTSHELF® MATHS

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

- 8 TIER SHELVES
- X 2 BACK-TO-BACK SHELVING UNIT
- X 3/4" (19 MM) MORE SPACE PER SHELF

- = 12" (30.48 CM) MORE USABLE SPACE PER SHELVING UNIT
- X 100 SECTIONS

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

* Adjustments for storing objects of various heights. Offers more adjustability and optimizes the space between each level of shelving.

** The SmartShelf® 1 1/4" (31.75 mm) wide post provides 3/4" (19 mm) more usable growing space per shelf than the industry standard 2" (50.8 mm) wide post.

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.

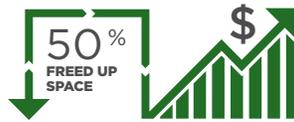
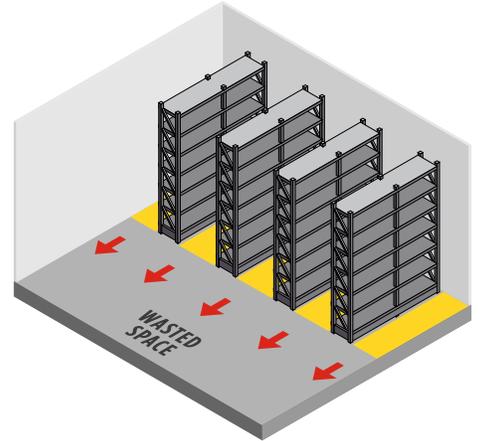


LCD touchscreen tablet control with or without PIN. Limitless customized displays.



WASTED SPACE
CONVENTIONAL FIXED RACKING LAYOUT.

Conventional growing systems require space-wasting fixed aisles.



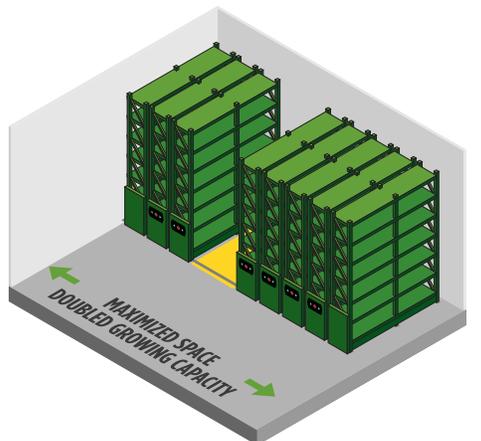
SPACE SAVED & INCREASED PROFITS
MOBILE SYSTEM LAYOUT.

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



 e Pulse™



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

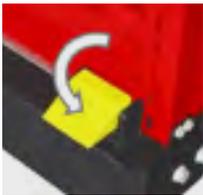
SAFETY FEATURES FOR HIGH-DENSITY MOBILE VERTICAL GROWING SYSTEMS



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

MANUAL SYSTEMS

OPTIONAL SAFETY



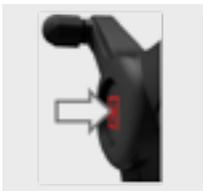
FOOT-LATCH

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



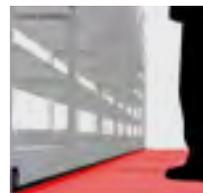
INFRARED FOOT-LEVEL SAFETY BEAMS

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 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.



MOBILE STORAGE SYSTEMS



SHELVING SYSTEMS



INDUSTRIAL MODULAR DRAWERS



CABINETS



WORKBENCHES



HANGING STORAGE SCREENS & PANELS

WHY CHOOSE MONTEL HIGH-DENSITY SOLUTIONS FOR GROW OPERATIONS?



GET RESULTS FROM YOUR SQUARE FOOTAGE: FAST ROI

Save up to 50% of your value generating space or maximize growing capacity.



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.

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



CERTIFICATIONS & STANDARDS



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



877-935-0236
info@montel.com
www.montel.com