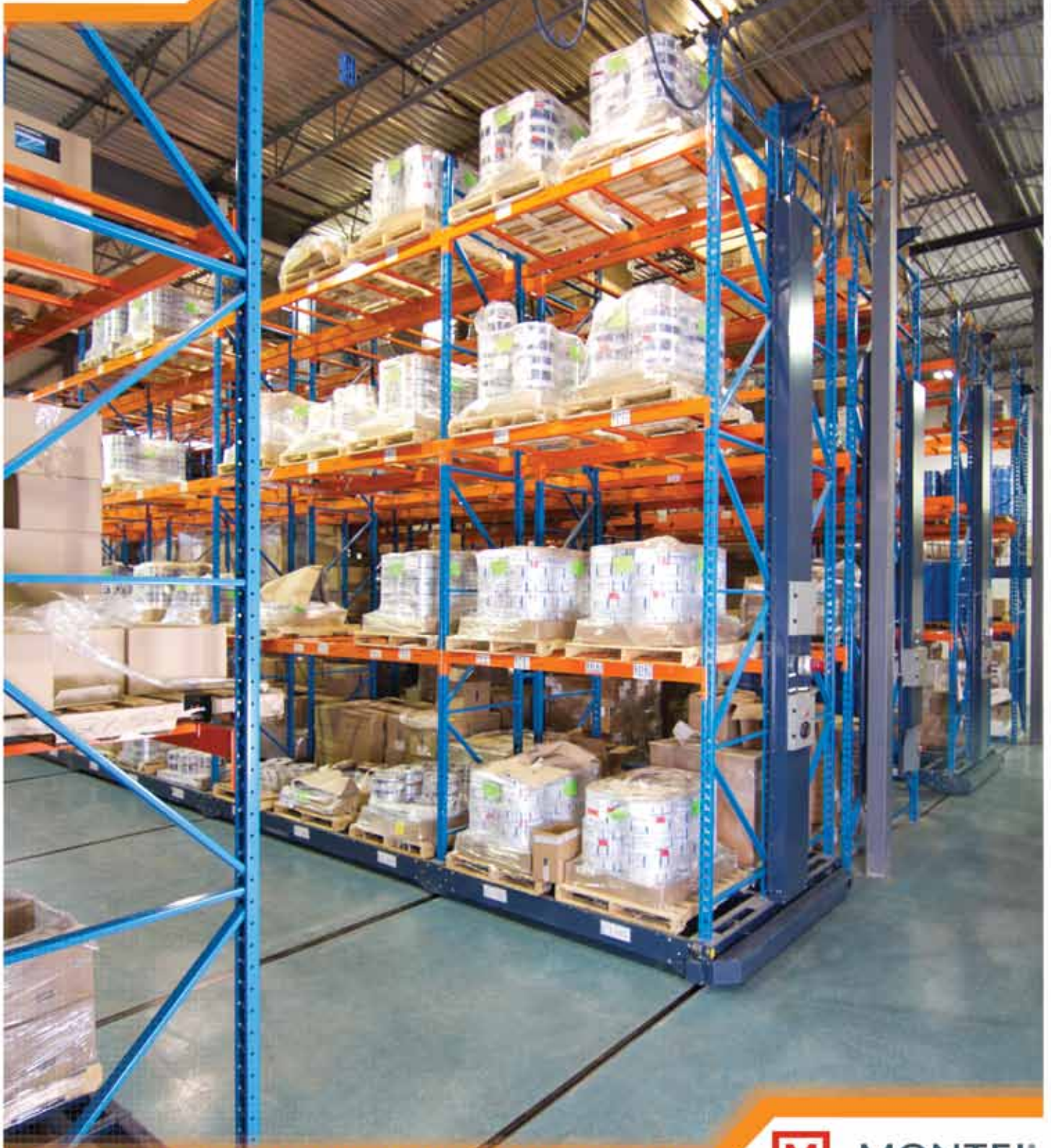




Storage Organized.
Space Optimized.



HIGH DENSITY MOBILE RACKING SYSTEM



MONTEL
The Intelligent Use of Space

Montel, the pioneer in high-density mechanical and powered mobile storage systems in North America, sets new standards in safety, productivity, reliability and user-friendliness with its revolutionary system: **SAFERAK**.

Montel's **SAFERAK** industrial mobile storage system provides another efficient solution to the challenge of space optimization. Whether to increase storage capacity, or to make room for production by decreasing the space which is allocated to storage, this system was developed specifically for industrial environments by maximizing the use of available space.

**CREATE MORE ROOM. NO NEED TO EXPAND. NO NEED TO RELOCATE.
NO NEED TO LEASE ADDITIONAL SPACE.**

Discover new floor space by simply adding your existing industrial racking on top of the heavy duty industrial mobile carriages and rails.



IMMEDIATE PAYBACK

The **SAFERAK** high density storage system generates a rapid return on your investment. In addition to making better use of your existing space, you can lower your production costs by improving the organization of your materials, either raw, work-in-process, or finished products.

**MAKE SPACE. BE GREEN.
STREAMLINE YOUR WORKFLOW.
LOWER YOUR PRODUCTION COSTS. INCREASE YOUR PROFITS.**

The Concept

We live in a four-dimensional world of length, depth, height, and time. The space we occupy is moving and alive... in constant flux. All space, however small, has incomparable value. Any space can be organized.

SAFERAK organizing your space, you can increase your storage capacity in the same footprint, or **make available as much as 65% of your current storage** space for more profitable activities, improve your productivity while lowering your production costs, and consequently increase your bottom-line profits.

At Montel, we help you make Intelligent Use of Space.

STATIC RACKING

EXPENSE = COSTS 

Space Wasted

The numerous space-wasting static rows and the multiple aisles using significant valuable space should be utilized to create additional storage.

Inefficiency

Any inventory not strategically organized, nor intelligently situated on a floor space increases your production costs and employees are less effective.

Costly Floor Space Layout

The space-wasting static racking and the space-consuming aisles should be compacted to allow the implementation of a production line or any activity generating additional revenues.

SAFERAK MOBILE RACKING

INVESTMENT = REVENUES 

Productivity & Security

By rezoning some areas and reorganizing your floor space, relocating increasing and fast moving SKU's, consolidating materials, reducing pick routes, inventory management and safety of your employees are improved. Your productivity is enhanced.

Multiple Module Systems (Work with Columns)

It is common to have columns as part of your workspace. Split your entire high density storage system into multiple productive module systems.

Make An Impact On the Environment

Investing in a SAFERAK mobile storage system is a green-building initiative contributing to a more sustainable workspace environment. SAFERAK systems can assist projects not only in earning a LEED rating, help complying to ISO 14001, but also maximizing operational efficiency while minimizing environmental impacts. Not only warehouses utilizing high-density mobile storage systems benefit from increased storage space capacity, but they also save on energy consumption.

Profitable Floor Space Layout

With SAFERAK, save **at least 50%** of the floor space by compacting static racking and eliminating aisles. Free up room for a production line by decreasing the space allocated for storage. Increase your revenues without having to relocate or expand.

Redefining Safety

Employees come first. The safety of your employees must be guaranteed. In order to ensure that **SAFERAK** is as safe as it is functional and reliable, Montel engineers worked closely with leading industrial safeguarding firms to develop and offer the latest safety technologies associated with industrial high density storage systems. **SAFERAK** now provides complete peace of mind.



Adjustable Distance Measuring Sensors

The spacing between closed carriages is easily adjustable providing additional safety to users while protecting stored materials. The clearance can also be programmed using the *PIN-Code Control* or the *ePulse™ Remote Monitoring Software*. This adjustability feature allows necessary clearances to accommodate and protect objects that may overhang the racking.

When performance and safety is the main criteria, Montel is the market leader. We continually invest in Research and Development to maintain and improve our reputation as a leader in quality and safety.

Safety Lock Out

The backlit red Stop signals the presence of a user or object at either end of an aisle. The selection of a new aisle is prevented until the open aisle is cleared. There is no way to override the safety system with LED Guard Technology™. An audio feedback feature and an LCD display are available.



No More Uncertainty with Complete Aisle Detection *LED Guard Technology™* *Patent Pending*

SAFERAK supplied with *LED Guard Technology* adds a new dimension to safety by continuously detecting the entire floor surface of an aisle. With its revolutionary *LED Guard Technology*, **SAFERAK** prevents any carriage movement when a forklift operator, a user or supply materials are located anywhere within the aisle.

As soon as, and as long as, a fork truck operator, user or pallet rack is in an aisle, the built-in total detection safeguard prevents the movement of any carriage. Therefore, the personal safety of all users is safeguarded, as well as preventing any damage or dislodging of stored materials located within an open aisle.

With *LED Guard Technology*, there is no more uncertainty in determining the appropriate safeguard for your application, no more risk of omitting a critical safety component. No multiple beams across an open aisle which cannot detect the entire square footage of an aisle. No more partial coverage of the aisle potentially putting your personal safety and the integrity of your supply materials at risk.

Why SAFERAK? The SAFEST high-density mobile racking system.



LED Guard Technology™

Patent Pending

Complete Aisle-Detection

Colored detection zone in this image is strictly for information purposes.

Aerospace



Automotive



Business Manufacturing



Distribution Centers



Energy



Military



Pharmaceutical



Printing



System Movement & Stability

To protect your stored materials, the **SAFERAK** speed is programmed for:

- Gentle Start-up
- Smooth Cruising Speed
- Soft Braking Movement



Why SAFERAK? Mount your existing racking or industrial shelving onto mobilized industrial carriages.

User-Friendliness

The LED-friendly visual backlit indicators display the available options for carriage movement. Only the safe choices are illuminated. If it is not a safe option, than it is not an available option.

SAFERAK takes the guesswork out of safe mobile operations. The LED visual backlit indicators allow easy visual status from even across the room.

Why SAFERAK? The most user-friendly high-density mobile racking system.



Security with Peace of Mind

PIN-Code Control

The PIN-Code Control with LCD Display may restrict the access to specific aisles or the entire system. The optional *ePulse Remote System Monitoring & Configuration Software* allows you to reconfigure the security settings of your system at anytime.

Building Interface (Fire/Security/Lighting)

SAFERAK can be interfaced and coordinated with your building's fire, sprinkler, lighting or alarm security systems. For example, the system can be programmed to move to preset equal spacing between the carriages when the fire/sprinkler system is activated, or completely close and lock itself in the event of a security breach.

Why SAFERAK? A highly secure mobile storage system.

Productivity & Efficiency

More efficient than a mechanical or manual mobile storage system, **SAFERAK** is a time-saver as well as a cost-saver.



Prioritizing Aisles

Users can increase their efficiency by configuring a specific priority aisle(s). While accessing an infrequently used aisle, **SAFERAK** automatically repositions the system to your desired predetermined aisle(s). The most frequently utilized aisle(s) will be preset to reopen automatically for the next user. You can eventually reconfigure your **SAFERAK** mobile system by programming aisles according to pick rates or pulls. This ensures quick access to your commonly stored materials. Program the *Priority Aisle* automatic feature with the *PIN-Code Control* or the optional *ePulse Remote Monitoring Software*.



Closing All Aisles

Program your system to automatically close all aisles and lock once a user exits an aisle, or after a preconfigured period of inactivity. Configure your system to close all aisles and lock at a specific time after business hours, or open and unlock before business hours.



Operating Aisles Remotely

Forklift operators can operate **SAFERAK** using a *Tablet Wi-Fi Remote Control* (specific brands and models only). **SAFERAK** can also be operated from the keyboards of your computer with the optional *ePulse Remote Monitoring Software*.

Why SAFERAK? Increase productivity by saving time and costs.

Configurability

You can easily customize **SAFERAK** using the *PIN-Code Control with LCD Display* for your ongoing functional requirements.

Montel's optional *ePulse Remote Monitoring and Configuration Software* may also be utilized, which has the capability of providing you and/or your local Authorized Montel Distributor, and/or Montel the capability to manage certain settings remotely, and monitor **SAFERAK** performance and operations with assurance. At any time, the *ePulse* allows you to reconfigure your **SAFERAK** to your preferred settings and parameters. This application allows numerous configurable operations to improve productivity and security.

ePulse proactively identifies any potential issues with your system, provides quick diagnostics of the system to maximize your uptime, sends automatic email notifications of system errors, and ensures constant monitoring 24 hours a day, every day of the year.

The TCP/IP protocol facilitates the network connectivity from a computer to the Montel powered mobile storage system.

@Pulse™



Why SAFERAK? The only good solution is a configurable and reconfigurable solution.

SAFERAK Standard Features

Safety

- System Entry Infrared Curtain (EN954-1 Category 4 Compliant)
- Infrared Floor-Level Beams on Both Sides of the Aisles
- Readily Accessible Emergency Stop Buttons (EN954-1 Category 1 Compliant)
- System Perimeter
- Safeguards for All Mechanical Moving Components
- Strobe Lights and Buzzers



Infrared Floor-Level Beams on Both Sides of the Aisles

Photoelectric beams projecting on both sides of each aisle are mounted low on the carriage side members providing a low activation height and preventing an object or a user's foot to clear under any beam.



System Entry Infrared Beam Curtain

Carriage movement will instantly stop in the event the System Entry Infrared Beam Curtain detects any beam disruption in front of any SAFERAK mobile storage system.

Colored detection zone in this image is strictly for information purposes.



Safeguards for All Mechanical Moving Components

All mechanical moving components, such as chains, sprockets, shafts and wheels are concealed and protected by a steel safety guard to prevent inadvertent access.



Strobe Light and Buzzer

In addition to a safety alert buzzer, the strobe light provides visual signal and flashing notification prior to and during carriage movement.



Readily Accessible Emergency Stop Button

PIN-Code Control with LCD Display (Safety Messages)

- Automatic Lock/Relock Safety Timer
- LCD Display & Audio Feedback Available
- Thermal Overload Motor Protection
- Fail-Safe Technology

User-Friendly

- LED-Friendly Visual Backlit Indicators
- Multilingual LCD Display
- Simple to Use Three-Button Control
- Indicator Lights
- Convenient Software Upgradability
- LED Diagnosis Control Board & Plug-In Type Connectors

Productivity / Efficiency

- Programmable Speeds
- Multi-Tasking Aisles
- Programmable Auto Moves: Priority Aisle, Auto-Closing/Security Park
- Auto-Spacing/Ventilation Park
- Auto-Cycling

Reliability – Powered Features

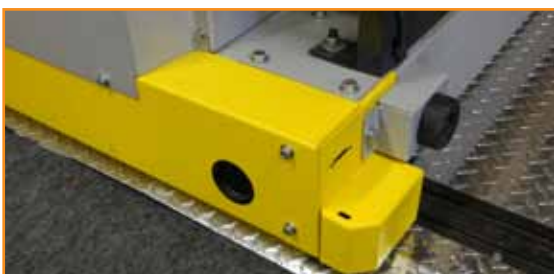
- Machine Safety Compliant Technology
- Adjustable Distance Measuring Sensors
- Industrial Rated 230 VAC Three-Phase Current Limited, Fractional Horsepower, Gear Motor
- Premium Sealed Membrane Control
- Dustproof Enclosure Electrical Box
- Shielded Network Cables for Radio Frequency Interference Protection
- Programmable 120 VAC Outputs

Reliability – Track, Drive and Guidance

- Direct-Drive System with Full-Length Drive Shaft
- Large Diameter Heavy Duty Tubular Drive Shaft
- All Drive Wheels Driven at Each Rail Location

Auxiliary Power

- Mechanical Ratchet Backup



Mechanical Ratchet Backup

The mechanical ratchet ensures complete accessibility even in the event of a power failure. Additional benefits include no operational downtime, simplified and shorter installation time, and easy relocation.

SAFERAK Optional Features

Safety

- LED Guard Technology (Complete Aisle-Detection Passive Safety System)

Security

- PIN-Code Control Controlled Access
- Building Interface (Fire/Security/Lighting)

Productivity / Efficiency

- Dual Access Controls
- Mobile/Static to Static/Mobile Carriage Swap Configuration
- Tablet Wi-Fi Remote Control
- ePulse Remote Monitoring & Configuration Software
- Inventory Management Software Connectivity with ePulse
- Corrosion-Resistant Track

SAFERAK Industrial Mobile Series

SAFERAK 60

Load Capacity: 60,000 lb (27,215 kg) Capacity Per Double Rack Sections

Operation: Powered Mobile

Carriage Maximum Length: 120 Feet (36,6 m)

SAFERAK 32

Load Capacity: 32,000 lb (14,514 kg) Capacity Per Double Rack Sections

Operation: Powered Mobile

Carriage Maximum Length: 100 Feet (30,5 m)



Montel's 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 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. From the first contact to the completion of a project, we spare no effort to meet the requirements of our clients.

Today, the name of Montel is synonymous of excellence around the world in high density storage systems.

For more information about our products and services, or to receive information about your local Authorized Montel Distributor, please visit us at www.montel.com





MONTEL®
The Intelligent Use of Space

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