

Industrial High-Density Mobile Storage Systems

INDUSTRIAL SYSTEMS

Storage Solved®



Spacesaver®



### THE PRINCIPLE IS SIMPLE, BUT THE BENEFITS ARE EXTRAORDINARY

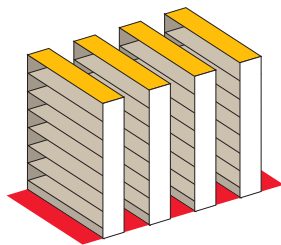
Superior performance through engineering excellence.

With today's emphasis on reduced inventory, rapid throughput and quick response to market needs, an industrial storage system should have three qualities; fast, easy access with 100% selectivity, efficient cube utilization, and high return on investment (ROI) with quick payback.

More than that, the ideal storage system is an important contributor to workflow effectiveness and productivity. Whether for parts and materials, tools, drawings, files, work in process or finished goods, its main purpose is to store material to be used...not just to sit there. Storage is dynamic, not static. That's why Spacesaver high-density mobile storage systems are "state of the art" for today's industries. They are designed for performance.

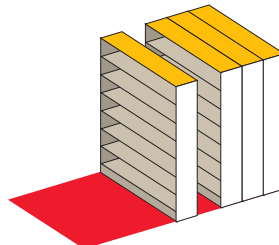
Twice as much material, or more, can be stored in the same area. Or, half the space you need now can be used for something else. By using less space, it is possible that the stored material can be located closer to the point of use for faster retrieval.

#### BEFORE SPACESAVER

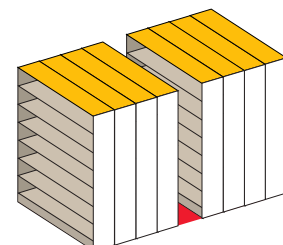


Typically 60% of the floor space is wasted in non-productive access aisles. Only 40% is actually used for storage.

#### WITH SPACESAVER



Spacesaver mobile carriages eliminate all but one "moveable" access aisle to compact stored materials into 50% of the floor space, or less.



Or a full 100% more storage is available within the original floor space area.

Spacesaver mobile storage systems provide maximum density with no compromise on selectivity and ease of access. They offer 100% selectivity. You need never move one object to retrieve another. Nor should one person have to wait for another to access the material.

With a single person loading or picking, you need only one "moveable" aisle to reach every shelf facing. With two or more people working the system, the mobile carriages can be divided into bays with an access aisle for each bay so each person can get at the system independently.



### CENTRALIZED OR DECENTRALIZED?

Many companies organize their storage functions in one or two centrally located Spacesaver systems for maximum cube utilization. Others opt for material stored in several smaller systems, strategically placed at point of use. One manufacturer strategically positioned 17 different mobile systems along the assembly process starting at incoming parts inspection. They store parts and materials; paperwork and drawings; tools; work in process; masking materials for the paint line; and packaging materials at the shipping dock for easy access right where they're needed.

### APPLICATION FLEXIBILITY

Anything that can be moved by a lift truck or crane can be stored on a Spacesaver system. There are virtually no size, bulk, shape or weight design limits. So far, nobody has come up with a serious load requirement that we couldn't meet. And we can fit our systems to meet almost any building column or ceiling height restrictions.

We've built everything from small 30-in. wide lateral shelving units for shop floor offices to warehouse carriages 150 ft. and longer with load capacities over 250,000 lbs. We've even put our systems in freezers to maximize their storage capacity.

### ANY KIND OF HOUSING

Shelves, cabinets, modular drawers, unit boxes, lockers, pallet or cantilever racks, virtually any kind of housing, even tooling display racks for tool cribs, can be incorporated in a Spacesaver system.

### MACHINE OR HAND LOADING

Spacesaver systems can be supplied for machine loading by lift truck or crane, or for hand loading. A wide variety of safety and control devices are available to prevent carriage movement and protect personnel and equipment in the aisles.

Wire-guided vehicles can be integrated with Spacesaver systems by means of guide wires in the aisle floors. Vehicles can also be equipped with remote aisle controls.



What this can mean to you.

## MATERIAL CONTROL AND SECURITY

The chances of material loss or damage are minimized because Spacesaver systems compact stored materials into a protected and controlled "storage cube." Only a small percentage of shelf positions are vulnerable at any one time. Compacted modules can be locked to reduce opportunity for pilferage or unauthorized requisition, as well as protect the contents from dust, water and fire damage. Optional sprinkler and fire extinguisher systems can be built in to protect flammables.

## INVENTORY CONTROL

Spacesaver systems can be integrated with inventory control systems with bar-coded shelf or bin locations and programmed to signal or open the proper aisle for storing or picking a given item.

## ROI AND PAYBACK

Spacesaver systems typically pay for themselves in two years or less on space saving alone. If they eliminate need for new construction, the payback can be much faster. It is not uncommon for the inventory reduction resulting from a more efficient storage system to generate an almost immediate payback. And that's still not counting the operational benefits of faster access and improved workflow.



### INCOMING PARTS & MATERIALS

- ❑ Detroit automaker stores a week's worth of incoming body parts on this 2250 pallet position mobile rack system served by wire-guided highmast, turret fork trucks.
- ❑ All incoming parts for this Rockford, IL aircraft component assembly plant are held on this mobile shelving system for completion of paperwork, conveyed to incoming inspection.
- ❑ Spacesaver's own "flow through" mobile carriage plant receives incoming parts and materials on these heavy-duty industrial carriages, which feed directly to work stations.
- ❑ Precision metal products fabricator, Owensboro, KY, stores incoming raw materials and tooling on mobile rack system adjacent to loading dock, creating space for expansion.

### WAREHOUSE & SHIPPING

- ❑ Dairy food industry supplier, Fenton, MO, avoided building a second finished-goods warehouse by installing a 158-ft long mobile rack system down the middle of existing warehouse.
- ❑ Air National Guard warehouse, Charlotte, NC, stages parts and supplies on high-density mobile storage system located adjacent to flight line for fast turnaround on repairs.
- ❑ Shipping stock from Spacesaver's own automated steel shelving plant is staged for 48-hour Quick Shipment program on mobile racks served by conveyors from paint line.

### PARTS & MATERIALS

- ❑ Computer assembly plant in Fort Collins, CO, relocated small parts from off-site warehouse to mobile system adjacent to production area, supervised by electronic Kanban system.
- ❑ Masking supplies for paint department of midwest aircraft part manufacturer are stored on compact mobile system immediately adjacent to the paint line.
- ❑ Medical products manufacturer, Columbus, IA, stores flammable packaging materials on mobile pallet rack system with in-rack sprinklers approved by Factory Mutual.

### SHOP SUPPLIES

- ❑ Masking supplies for paint department of midwest aircraft part manufacturer are stored on compact mobile system immediately adjacent to the paint line.
- ❑ Medical products manufacturer, Columbus, IA, stores flammable packaging materials on mobile pallet rack system with in-rack sprinklers approved by Factory Mutual.



### COLD STORAGE/FREEZER STORAGE

- ❑ Frozen antibiotics from this Deerfield, IL, pharmaceutical firm are stored in modular freezers. Mobile carriages save \$100,000 investment per freezer, 50% in energy costs.

### TOOL CRIBS

- ❑ U.S. Air Force base near White Sands, NM, mounts sample tools on mobile display racks at tool crib counter to help airmen identify proper stock number for ordering.
- ❑ Michigan automaker created tool crib space in the middle of the plant by consolidating tools on mobile storage system to optimize space usage and reduce nonproductive “go-fer” time.
- ❑ Aircraft engine overhaul facility in Cheshire, CT, consolidates 5,000 tools on eight mobile carriages with louvered steel panel racking system using hang-on bins, baskets, shelves, tool holders, hooks and trays.

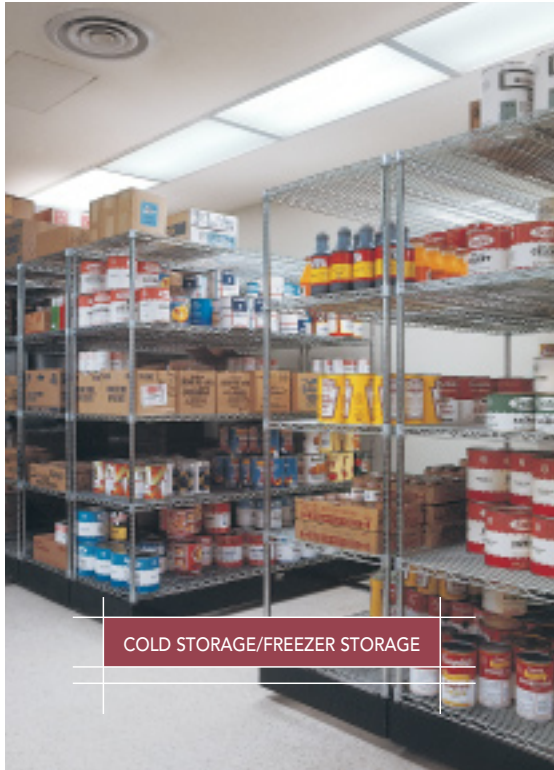
### WORK PROCESS

- ❑ Textile weaving mill in Galax, VA, reduced storage space on plant floor by 30% and increased storage capacity by 25% by relocating loom beam racks on heavy-duty mobile carriages.
- ❑ Using a widespan mobile system to reduce space required for in-process storage made room for expansion of machining bay for Dallas, TX, instrument fabrication shop.
- ❑ Metals service center, Santa Ana, CA, stores aluminum coil stock on heavy-duty mobile rack system alongside precision cut-to-length operation.

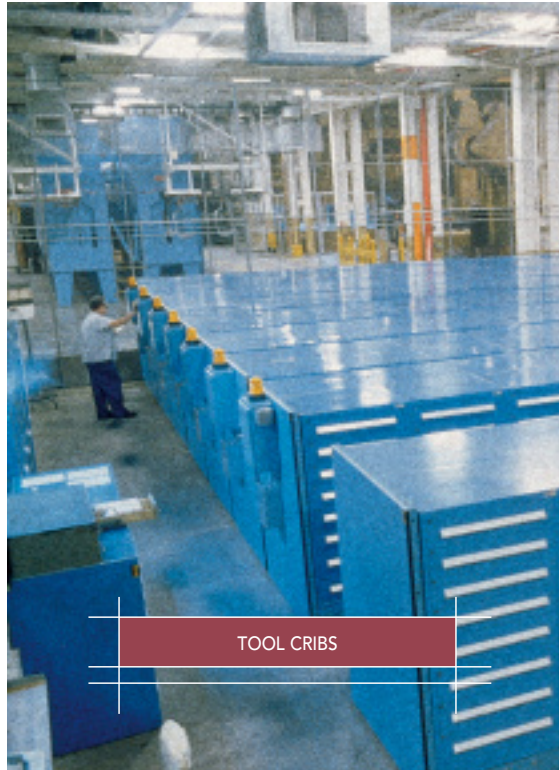
### MAINTENANCE AND REPAIR

- ❑ U.S. Air Force communications group near Oklahoma City stocks spare radios and parts in mobile system alongside radio repair bay, eliminating need to wait for parts.
- ❑ Power company meter repair department near Charlotte, NC, locates small dual-entry mobile unit in the center of repair room for easy access by technicians.
- ❑ Same utility stores NRC-mandated maintenance parts for nuclear plant on mobile rack system with drawers for small parts. Mobile storage is necessary as area is landlocked.





COLD STORAGE/FREEZER STORAGE



TOOL CRIBS



WORK IN PROCESS



MAINTENANCE AND REPAIR

How can Spacesaver offer completely customized systems at competitive prices and guarantee our quality? The answer is in our manufacturing facilities and technology. We have the largest plant in North America dedicated solely to the manufacture of mobile carriage systems. Next door, we have the most technologically advanced steel shelving plant in the world.

## PRECISE INSTALLATION RESPONSIBLE SERVICE

You can tell a Spacesaver system by the way it moves. It moves easily and smoothly, doesn't bind or rack.

The secret is in the installation, the way the rails are laid and leveled, and the way all the pieces are assembled. Everything fits and matches.

There is a Spacesaver factory-trained installation and service manager on every job, to make sure it goes in properly and performs properly, that our standards-the highest in the industry-are fully met, and stay met.

Each installation is carefully planned to minimize any disruption to the customer organization. Beyond the installation and warranty, we offer preventive maintenance contracts to assure that the equipment remains fully functioning. And our service people are always on call for immediate service, because we want you to have full access to all your stored materials at all times.

## PROVEN EXPERIENCE, BY FAR THE INDUSTRY'S LARGEST CUSTOMER BASE

Spacesaver pioneered the development of high-density mobile storage systems in North America. We have over 85,000 systems installed covering virtually every branch of industry. One thing we've learned is that there are no standard solutions. There are many common problems, but each situation requires a unique solution.

Spacesaver systems are more than just storage equipment. Each one is a dynamic part of the organization it serves, part of the workflow pattern. That's where our experience counts, not the number of systems we've installed, but in the number of problems we've helped solve.

## TOTAL COMMITMENT TO CUSTOMER SATISFACTION

Our commitment goes beyond the warranty. We stand ready to help our customers maintain their Spacesaver systems in perfect working order for the life of the installation. More than that, it is important to us that all customers receive the full performance benefits they expect, that they are happy with the installation and glad to tell others. We view this as a never-ending objective. This may well be the single greatest reason we have so many installations, why we don't hesitate to have people visit our installations, and why we receive many, many referrals from our existing customers.



## What Makes The Spacesaver Difference?

### DESIGN ASSISTANCE TO HELP YOU CHOOSE THE RIGHT SYSTEM: FREE C.V.U ANALYSIS

The Spacesaver concept is simple, but applying it effectively takes experience. Designing the right system for your storage needs is a key part of the Spacesaver service.

The initial planning is on us. Our Area Contractors can develop a complete cubic volume utilization (C.V.U.) analysis of your existing (or planned) storage facilities. We can show you how to create the most effective storage systems for your operation:

- ❑ How many carriages, how long and how high, to best meet your storage capacity needs in the least amount of space
- ❑ How many movable access aisles to keep pace with your productivity requirements
- ❑ Where the carriages should be located and oriented for optimum workflow
- ❑ Centralized vs. decentralized storage alternatives
- ❑ Provision for expansion or relocation as needs change

...plus the answers to questions about record tracking, control, protection, security and safety. We'll give it to you in writing-along with the cost savings, return on investment (ROI) and payback you can expect.

- ❑ Why not find out what a Spacesaver engineered storage system can do for you?

### SUPERIOR PERFORMANCE THROUGH ENGINEERING EXCELLENCE

Spacesaver systems are engineered for custom design. They comprise a huge family of precision components-backed by more than 30 patents-and the industry's widest range of special features that can be easily sized and configured to meet the specific requirements of each installation. Your local Spacesaver area contractor can give you complete specifications on the full range of features and options that distinguishes the Spacesaver line.

# INDUSTRIAL HIGH-DENSITY MOBILE STORAGE SYSTEMS

Storage Solved®

As our ISO 9001 certification would suggest, Spacesaver is dedicated to the highest standards of product quality. Equally important is our commitment to customer service, both before the sale and after.

Through our extensive nationwide network of local Area Contractors, Spacesaver provides a level of experience and competency that others simply do not. From architectural constraints and building codes to system design and floor-loading, we have the expertise to handle every issue and customer concern.

A storage solution that meets your unique criteria. Single-source turn-key project management. Certified system installation. Ongoing maintenance and support. Spacesaver sets a standard of professionalism, performance and responsiveness that is unmatched. We live up to our customer commitments and have the reference to prove it.

You can rely on The Spacesaver Group.



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