



RIDG U-RAK

*Storage Rack
Systems,
Capabilities
and Services*



Welcome
to the wide world of
Ridg-U-Rak storage
system solutions. This
selection guide will give
you an overview of the
many types of storage
methods available.
And if you don't
see exactly what
you need, our sales
and engineering staff
has the talent,
tools and experience to
meet your specific
requirements.
Trust Ridg-U-Rak for
the total storage
solution that provides
decades of trouble-free
operation.

Section I **100% Selective Storage Rack**

- page 4 **High Performance Ridg-U-Rak Pallet Rack**
Sets the performance standard for all other pallet rack designs.
Unequaled in rigidity and value for over 50 years.
- page 5 **Structural Pallet Rack**
Made from solid structural steel channel with either bolted or slotted beam-to-column connections.
- page 6 **Ridg-U-Tier™ II Pallet Rack**
Compatible with virtually all existing "tear drop" style rack connections - new and old.
- page 7 **Rack Impact Damage Control**
Wide variety of proven methods to reduce rack damage from accidental lift truck impacts.

Section II **High Density Storage**

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High density, deep flow pallet staging and transfer system without the need for inclines.
- pages 10-11 **Pick Module Systems**
Turn-key module systems for order fulfillment and storage operations in distribution centers.
- page 12 **Push-bak™ Storage**
The ultimate in high density storage utilization and selectivity. Features jam-free cart-on-rail design.
- page 13 **System 2000™ Drive-In Storage**
High density pallet racks with proprietary, extra high strength rail design.
- page 13 **Structural Drive in Rack**
Upright frames made of structural steel channel. Accepts a variety of pallet support rail designs.
- page 14 **Gravity Flow Rack**
Feeds pallets and cartons of product to processing, order picking and shipping.
- page 14 **Mobile Rack Systems**
Complete rack section moves mechanically on floor mounted rails to create access aisles.
Extremely high density.
- page 15 **Very Narrow Aisle Rack**
Provides higher density with 100% selectivity. Uses lift trucks designed to work in narrow aisles.
- page 15 **Double Deep Pallet Rack**
Increases productive use of floor space by 60% by storing two pallet loads at each aisle lane.
Uses deep reach lift trucks.

Section III **Specialized Storage**

- page 16 **Stac-U-Rak™ Stacker Systems**
Protects valuable tooling work in process. System is rack supported with integral crane.
- page 17 **Wide Span Shelving**
Versatile, adjustable all-steel shelving for industrial or retail use. Rigid and secure.
- page 18 **Roll-Out Shelf Racks**
High strength storage ideal for dies, fixtures, heavy parts. Shelves extend 100% of depth.
- page 19 **Reel Racks**
Easy way to store and dispense hose, cable, chain or other materials on reels.
- page 20 **Cantilever Storage Racks**
Ideal for long or awkward shaped items - pipe, bar stock, etc. Full aisle access to stored items.
- page 21 **Special Storage Racks**
Unique solutions for storing and handling special parts, products and materials.

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certified security



“When you deal with a storage rack manufacturer, your first question should address their compliance with established industry standards. RMI, The Rack Manufacturers Institute, a voluntary trade organization, has evaluated and set specifications for the design, construction, capacities, and safe implementation of storage racks.

Ridg-U-Rak is a proud (charter) member of RMI and is in full compliance with the latest RMI approved design specifications.

In addition, RMI certified members are committed to the principles of continuous improvement and the highest professional and ethical standards.

This is what we offer you...real solutions to your unique storage problems. ”

*Try us out and see why Ridg-U-Rak has been
“Famous for Integrity for over 50 years.”*



John B. Pellegrino

John B. Pellegrino, P.E.
President, CEO
Ridg-U-Rak Inc.

100% *Selective Storage Rack*

High Performance Ridg-U-Rak Pallet Rack

High performance Ridg-U-Rak sets the industry standard for rigidity, strength and durability.

This most common rack storage method permits immediate accessibility to every pallet load in the system.

High performance Ridg-U-Rak is available in a virtually unlimited selection of sizes and capabilities.

*superior design
superior value*

Reinforcing Groove

Adds strength to upright column.

Solid Corners

No steel removed from corners – extra strength.

Massive Bracing

Both horizontal and diagonal bracing is 3" stiffened channel. Prevents twisting, improves rigidity.

Patented Beam-to-Column Connection

Beam end plate is captured by return flange when hooks are seated – provides rigidity approaching that of a weld.

Offset Anchoring Hole

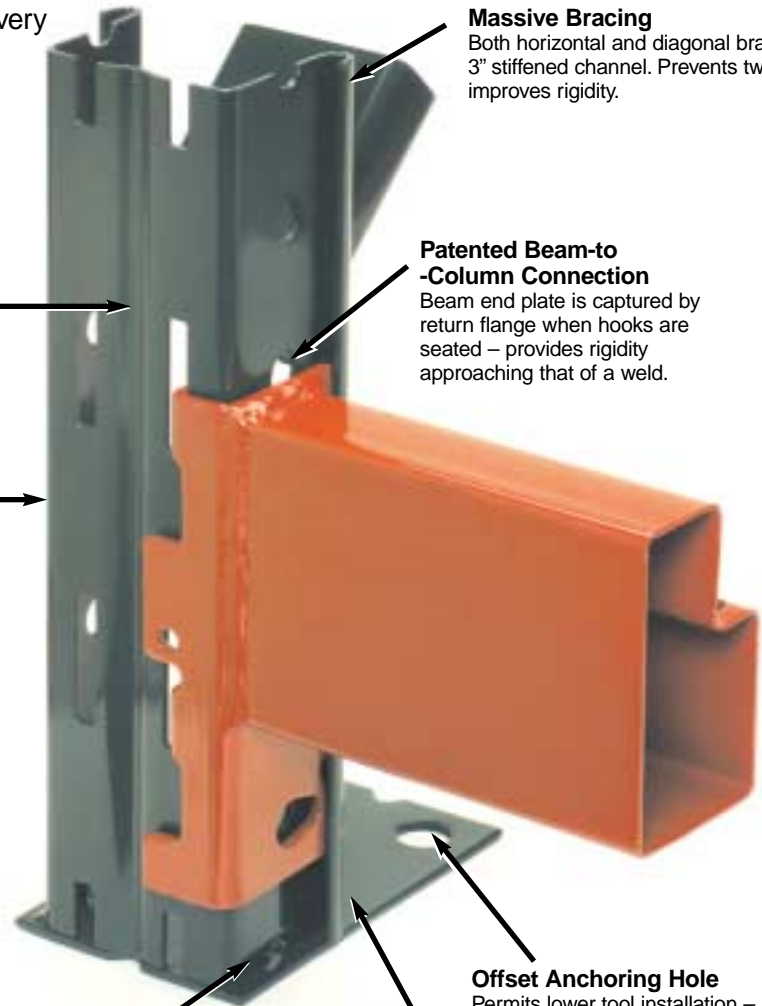
Permits lower tool installation – speeds lagging – no need to pre-drill holes in the floor.

Full Fillet Welds

For durability and strength – no tack welds.

Large Base Plate

Better load distribution – not exposed to aisle traffic.



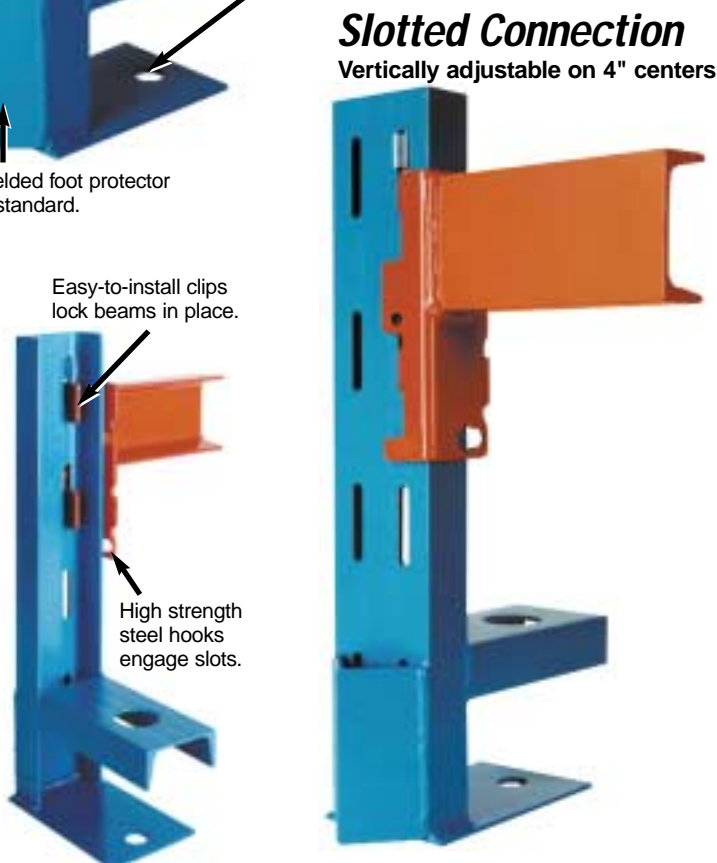
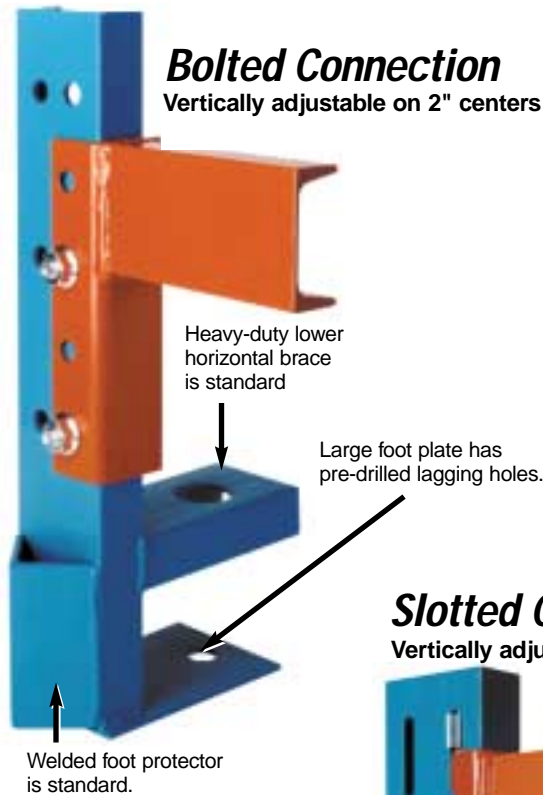


*100% accessible
easy to install*

Structural Pallet Rack

Similar to Ridg-U-Rak High Performance Pallet Rack in capability and capacity, structural systems utilize hot-rolled structural steel channels for uprights and beams. Precise beam-to-frame bolted connections provide a strong, rigid storage structure that is easy to install and easy to repair.

Structural pallet rack also provides 100% accessibility of all stored items.



100% Selective Storage Rack



100% *Selective Storage Rack*

Ridg-U-Tier™ II Pallet Rack

Ridg-U-Tier™ II rack systems are designed to be compatible with virtually any existing "tear drop" style upright frames. They let you step up to Ridg-U-Rak reliability when expanding your current system.

Ridg-U-Tier™ II also gives you a unique center reinforcing rib, heavier bracing for added strength and rigidity, and larger columns for better impact resistance.

*heavier bracing
better impact
resistance*

Patented Springlock Mechanism

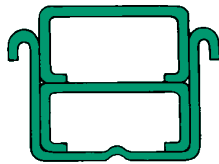
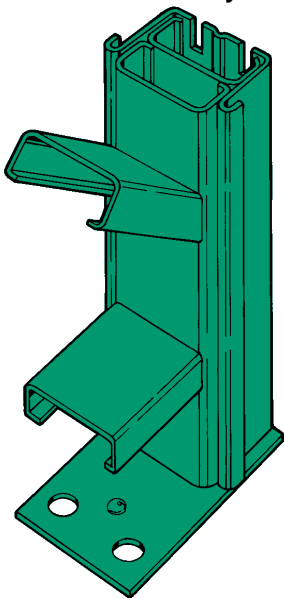
Ridg-U-Rak's new Springlock locking mechanism is an integral element of the rack's beam, replacing the "pinch-pin" locking system. The Springlock assembly provides positive beam-to-column engagement, improving installation speed and safety on all Selective and Structural Pallet Rack Systems.



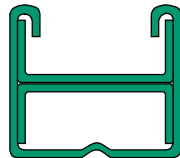


column sentry™ II guards against rack damage

**Column
Sentry II**



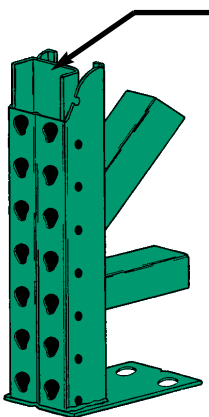
Column Sentry II reinforcing creates diaphragmed box section with double-wall thickness and more steel in corners.
32C 3x2-1/4



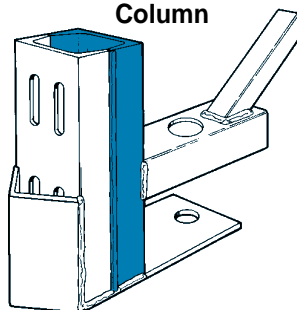
Column Sentry II
33C 3 x 2-3/4
43C 4 x 2-3/4
33I 3 x 2-3/4

**Column
Sentry I**

For Ridg-U-Tier II
32I Column



**Reinforced
Structural
Column**



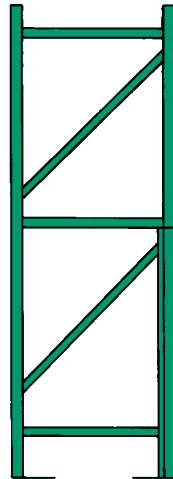
Rack Impact Damage Control

Ridg-U-Rak's Column Sentry II reinforcing is a double-thick, double strength diaphragmed box section that provides exceptional resistance to impact damage of upright rack storage columns.

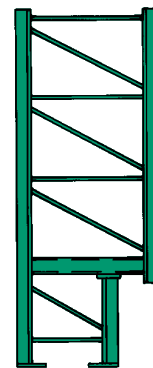
Column Sentry II reinforcing helps guard against rack failure, collapse, and local buckling; at the same time, it increases column load carrying strength.

And that's not all. Column Sentry II reinforcing is compact, thereby saving critical aisle space. Requires no more space than our standard column, and it need be applied only in critical areas subject to impact damage.

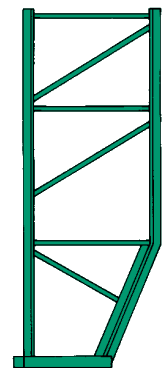
No other reinforcing method offers the protection, strength, and economy of Column Sentry II.



Column Sentry II reinforcing can be applied cost-effectively where it's needed most – such as lower leg of front upright column. No need for heavy, inflexible, expensive structural components in areas where damage is unlikely to occur.



Set-back™ Frames



Slant-back™ Frames

Isolates the column from aisle traffic without a sacrifice in capacity.

High Density Storage

Horizontal Pallet Transfer System

Ridg-U-Rak's Horizontal Pallet Transfer System provides you with a reliable, uninterrupted flow of product without the disadvantages of gravity flow systems. Pallets proceed at a controlled safe forward speed. No incline means no wasted vertical space at the input end and no need for jam-susceptible braking systems. Also eliminated is the fear of runaway pallet loads which can fly off the end of a conventional flow system.

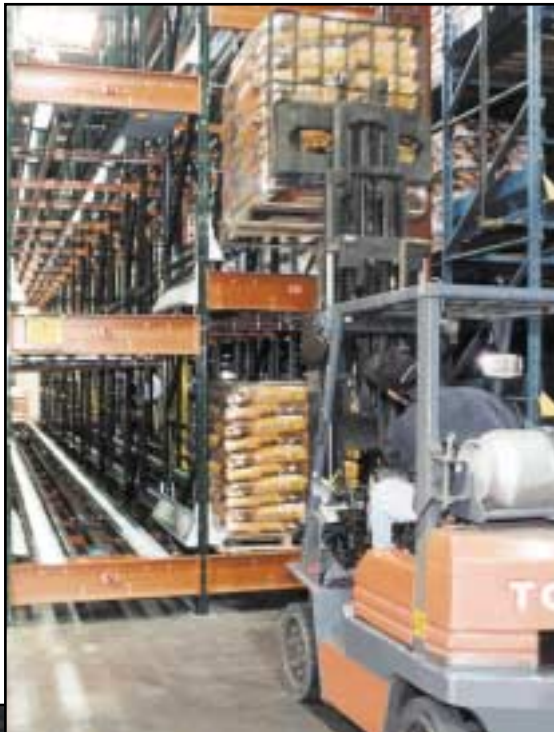
What's more, Ridg-U-Rak's patent-pending design permits virtually unlimited lane depth...so you get a system that conforms to your specific material movement needs.

*high density...
deep flow*





positive pallet control



HPTS™ is deceptively simple in operation. Pallets of materials are loaded onto the input section of the system. Following a programmed control, the pallet is transferred through a sequence of stages to the output end. The pallets ride on rollers and are moved by a motorized carriage through the system where they are banked at the unload aisle. Once loaded and resupplied, HPTS provides unending, immediate access of product to shipping.



Horizontal Pallet Transfer System



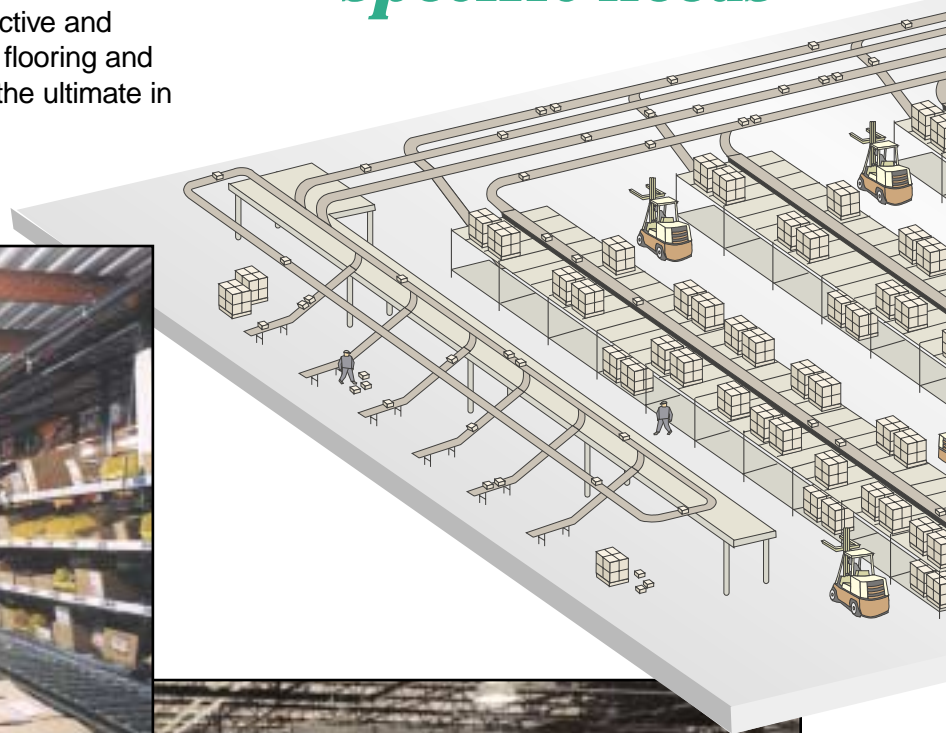
High Density Storage

High Density Storage

Pick Module Systems

Ridg-U-Rak's modular order picking systems can be deployed in solutions tailored to product delivery requirements. Pallet, case carton and pick-to-light components can be utilized in Push-bak, gravity flow, 100% selective and other storage methods along with flooring and decking selections. This provides the ultimate in productivity and space utilization.

*high throughput
designed for your
specific needs*

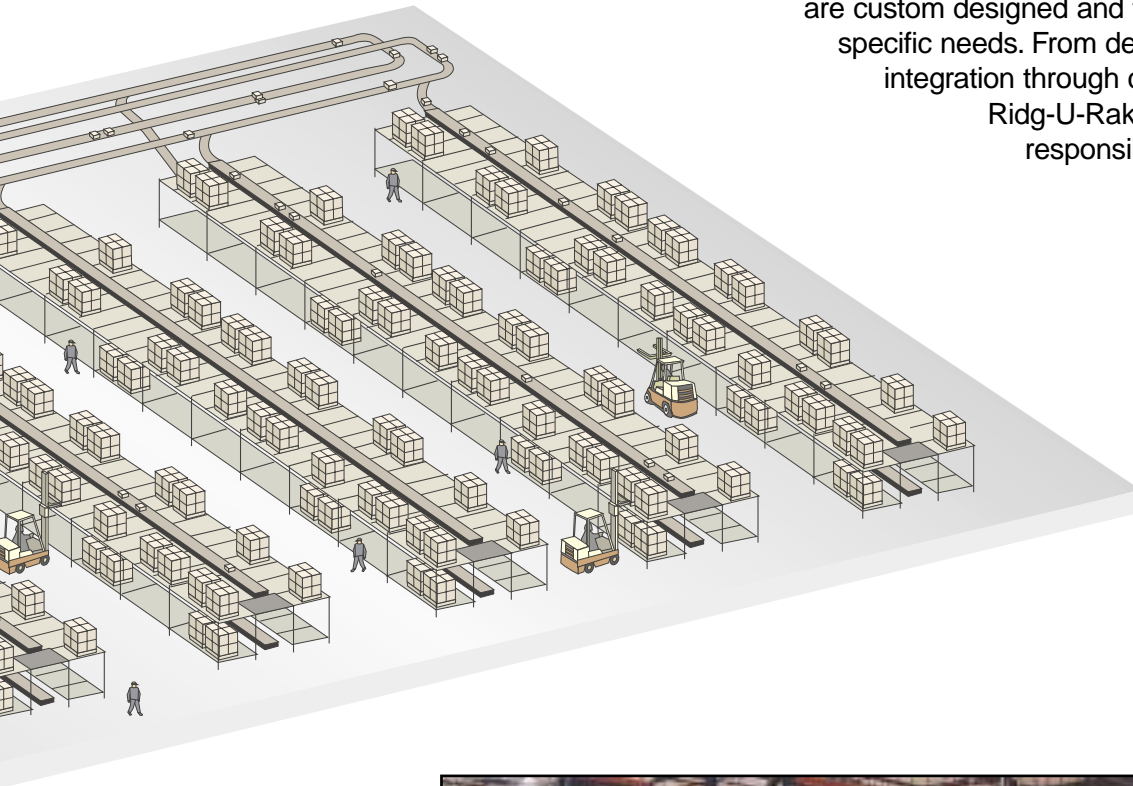


High Density Storage

10



Ridg-U-Rak pick module systems are custom designed and tailored to meet your specific needs. From design through system integration through complete installation, Ridg-U-Rak can provide turnkey responsibility for your project.



High Density Storage

Push-bak™ Storage

Ridg-U-Rak Push-bak™ uses a dynamic cart-on-rail system in which pallet loads are literally pushed back into the rack. When a pallet load is retrieved at the aisle, the deeper pallet load automatically advances to the aisle.

Push-bak storage provides a very desirable combination of *high density* and *accessibility*. Push-bak storage density equals that of drive-in storage, yet every lane can be accessed at all times. Any lane can be 100% filled from the aisle without affecting any other adjacent lanes above or below.

If you need to store a larger number of pallets of one SKU for several months and then remove and ship them all as a seasonal product, a drive-in system is an efficient system. In most other cases, Push-bak, or a combination of drive-in and Push-bak, will be more effective. An analysis of your inventory list and inventory turnover data should be the first step in making the best rack selection.

*high density
uses cart-on-rail
system*



All 12 lanes accessible from the aisle ALL the time.





*high density
extra high
strength rail*

System 2000™ Drive-in Rack

Ridg-U-Rak System 2000™ drive-in racks are superior in engineering. They provide high density storage with great strength and rigidity. Specially designed Ridg-U-Rail 2000™ is, pound for pound, the strongest drive-in rail on the market by actual laboratory tests. Perfect for storing common-sized loads.



Structural Drive-in Racks

Same principle of high-density storage as regular drive-ins, but with upright columns produced from structural steel shapes. Unlike competitive structural racks, Ridg-U-Rak structural drive-ins can be equipped with any of the Ridg-U-Rak drive-in rail designs – even Ridg-U-Rail 2000™.

High Density Storage

Gravity Flow Rack

Flow rack systems are a first-in first-out inventory management method. They're ideal for supplying pallet or carton loads of SKUs to sorting and distribution operations.

Ridg-U-Rak flow rack systems can be customized to meet your individual needs using rack components that are specifically designed for a highly productive, reliable and economical storage solution.

Because each application has its own unique characteristics, Ridg-U-Rak conducts pallet flow tests using the client's actual pallet loads to assure system reliability before production begins. You can trust Ridg-U-Rak to supply an efficient, well designed storage solution.

*first-in, first-out
management
system*



Mobile Rack

Mobile rack is a very high density storage system with 100% utilization of pallet positions. The system is comprised of 100% selective back-to-back pallet racks mounted on mobile bases that travel on tracks laid into the floor. The storage carriages are driven by integral electric motors and can be moved individually or as a section, permitting access to any pallet at any time.

Mobile racks are particularly effective in cold or ultra-cold warehouses and other industrial applications where aisle space is at a premium and speed of product movement is not a major concern.



Very Narrow Aisle Rack

Advances in fork lift trucks that can operate in aisles less than five feet wide have made possible the utilization of very narrow aisle (VNA) storage racks. They provide a significant reduction in floor space devoted to aisles and often are used in heights of 40 to 50 feet.

Pallets in VNA systems are 100% selective and can be accessed with turret or side loader lift trucks, or designed with top and bottom monorails.



Double Deep Rack

Ridg-U-Rak double deep storage is a simple adaptation of placing one row of 100% selective rack behind another. Using a deep reach lift truck, the operator places the back pallet into the system first, then places another pallet in front of it. While selectivity has been reduced by one-half over standard pallet rack, twice as many pallets are stored for a given number of aisles.

This increases productive use of floor space about 60% to 65%.

Double deep storage rack has become a very popular choice in "high throughput" operations.

It offers low initial cost, high productivity, good selectivity and less equipment damage.

Specialized Storage

Stac-U-Rak™ Stacker Systems

Stac-U-Rak™ rack supported stacking system with integral crane lets you make efficient use of valuable floor space.

It can be used to protect tools, dies and fixtures or to organize components, subassemblies and work-in-progress.

It simplifies the handling of heavy items, speeds storage and retrieval, and ends long waits for lift trucks.

Integral pallets are vertically adjustable and feature a foolproof engagement system.

Available in a wide range of easily customized styles to meet your specific needs.

*supported
with integral
crane*





*versatile
rigid and secure*

Wide Span Shelving

All steel Ridg-U-Span™ wide-span shelving is an efficient, cost-effective means of storing bulk materials.

When assembled, Ridg-U-Span's four basic components – upright frames, beams, supports and shelf material – create a rigid and stable hand-loaded, bulk storage system. Optional locking devices provide additional security from accidental dislodgement of beams from upright columns.

Ridg-U-Span's modular design allows a single unit to stand alone or future expansion by use of a common upright frame.

Ideal for storing or displaying medical supplies, hardware, groceries, archives, tires, garments and thousands of other parts, materials or merchandise.



Specialized

Roll-out Shelf Racks

Extendo-Max™ 100-V™ roll-out shelf racks have shelves that extend 100% of their depth for easy access to stored items. Solid steel construction with standard shelf capacities of 2,000 or 3,000 lbs. per shelf. Ideal for storing tools, dies, fixtures and other valuable items.



*high strength
easy way
to store*



Reel Racks

Storing and dispensing materials on reels is easy and orderly with the Ridg-U-Rak vertical reel storage system.

Vertically adjustable in 1" increments, reel racks are available in either single or double face styles.

Reel bearings accept customers' arbors up to 3" in diameter.



ideal for awkward shaped items



Cantilever Racks

Cantilever racks give you clear frontal access to the storage levels. Unlike conventional racks, cantilevers have no vertical obstructions in the storage area. That lets you make full use of space from side to side on each level. Store items or materials of varying length without interference or modification to the rack.

Ideal for:

- Pipe and tubing
- Bar stock and rods
- Appliances
- Rugs and bolts of fabric
- Furniture
- Merchandise in large boxes
- Lumber and wood products
- TV's, stereos and electronic components



Special Racks

- Pallet stacking frames
- Airline carts
- Pipe trays
- AS/RS Push-bak™
- Coil racks
- Carpet racks



Capabilities *and Services*

Product Design Engineering

At the forefront of Ridg-U-Rak product quality is a strict adherence to the highest engineering standards. We use sophisticated CAD procedures, RMI and A.I.S.I. cold form design specifications to calculate the capacities of all of our rack storage lines.



*some of the fine companies
we're proud to
call customers:*

Abbott Laboratories
Alfa-Laval
Alumax Mill Products
American Olean Tile Co., Inc.
Associated Wholesale
Grocers
B. F. Goodrich
Big Bear Stores Co.
Big Y Foods Inc.
Bil-Mar Foods, Inc.
Black & Decker
Blair Corporation
Boeing Helicopters
Brake Parts
Camp Lejeune
Campbell Soups
Canada Dry
Carrier Corp.
Caterpillar Inc.
Central Swagelok Co.
Coca-Cola Co.
Conoco-Phillips
Dana Corporation
Delaware Valley Pack & Seal
Duke Power
Duo Fast
E. I. DuPont
Exel Logistics

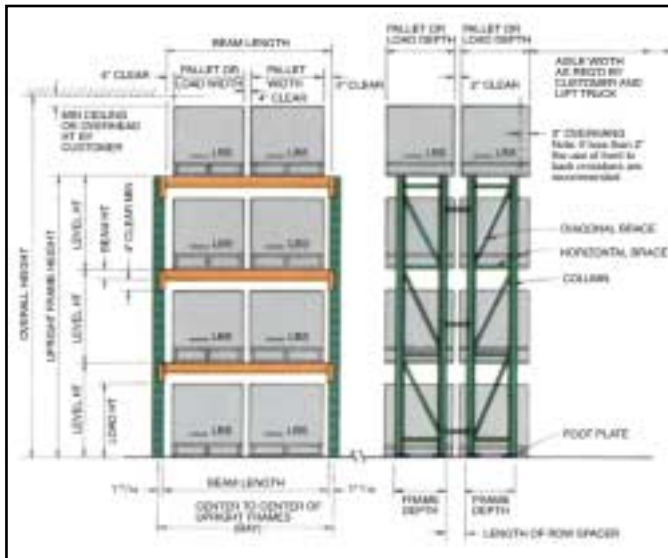
Ford Motor Company
Fruit of the Loom
General Electric
General Motors Corporation
General Railway Signal Corp.
Gerber Products Co.
Golub Corporation
Graybar Electric Co., Inc.
Hamilton Standard
Herman Miller Inc.
Hershey Foods Corp.
Hill Air Force Base
Home Quarters
Horizon Industries
Husky Injection Molding
Jacksonville Electric Authority
Jefferson Cold Storage Corp.
John Deere
Johnson & Johnson Corp.
Keith Clark Inc.
Kelly Air Force Base
Kichler Lighting
L. A. Gear Company
Lee Apparel Company
McNeil Consumer Products
Mead Papers
Med-Line Industries
Mobile Oil Corporation
National Grocers
Naval Air Station
Niagara Plastics Company
Office Depot

Packard Electric Corp.
Pensacola Christian College
Pepsi-Cola Bottling Corp.
Pfizer Inc.
Planters Life Savers Co.
Poulan Weed Eater Div.
Pratt Whitney Aircraft
Price Club
Proctor & Gamble Mfg. Co.
Publix Super Markets Inc.
Recoton Corporation
Riverside Markets
Rubbermaid Inc.
Scotty's
Service Merchandise
Sikorsky Aircraft
Square D
Sunstrand Aerospace
Super Food Services Inc.
Sysco Food Services
Target
The Kroger Company
Thermal Ceramics
Tinker Air Force Base
Tops Super Markets Inc.
Tupperware
Union Camp Corporation
W.W. Grainger Inc.
Walgreen's
Wal-Mart
Wiscold Rochelle
Xerox Corp
Yoplait USA Inc.



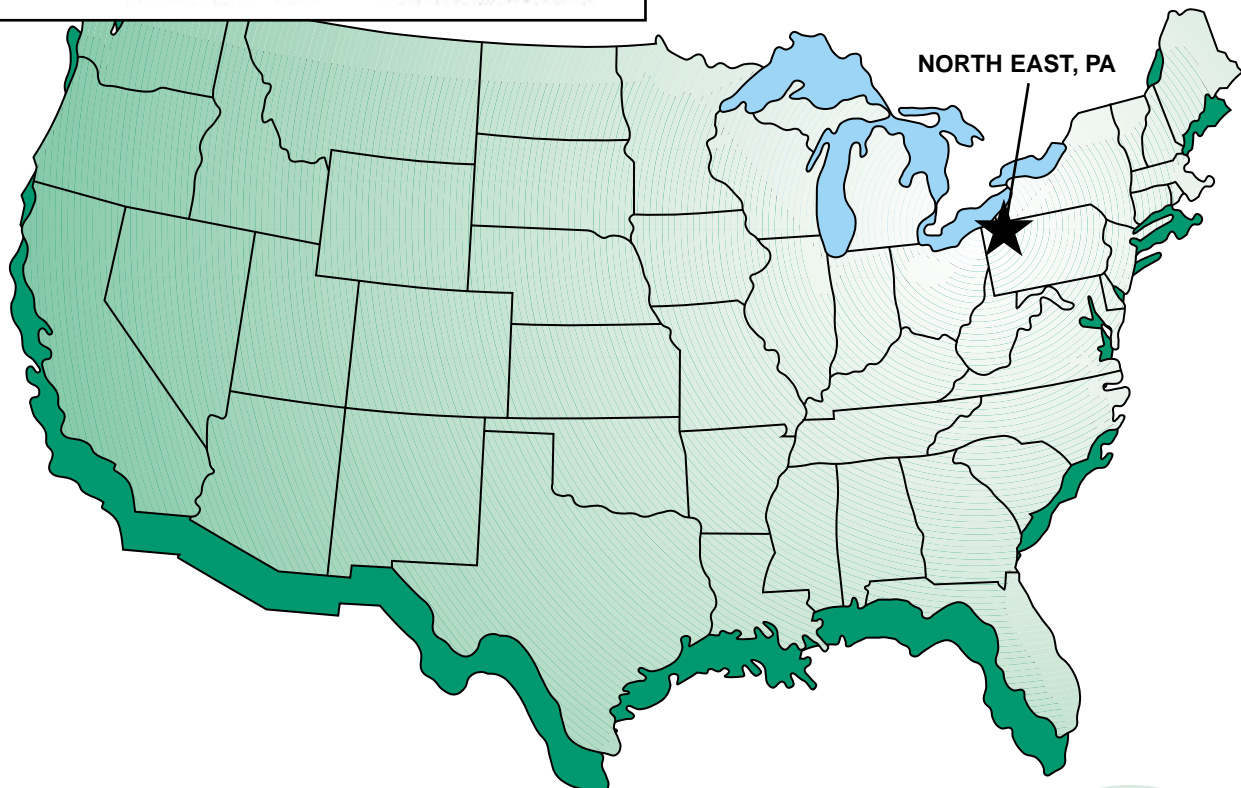
Facilities Engineering

Using proprietary software developed specifically for materials handling applications, our layout and design staff is able to develop a storage system design that not only meets your precise needs but also makes the optimum use of valuable floor space.



Nationwide Service

Good service means teamwork, and we have a great team. Our inside sales department and nationwide force of Regional Managers work closely with our network of more than 100 professional material handling distributors across the country. Together, they make sure your order is everything you expected...before and after the sale.



Capabilities *and Services*

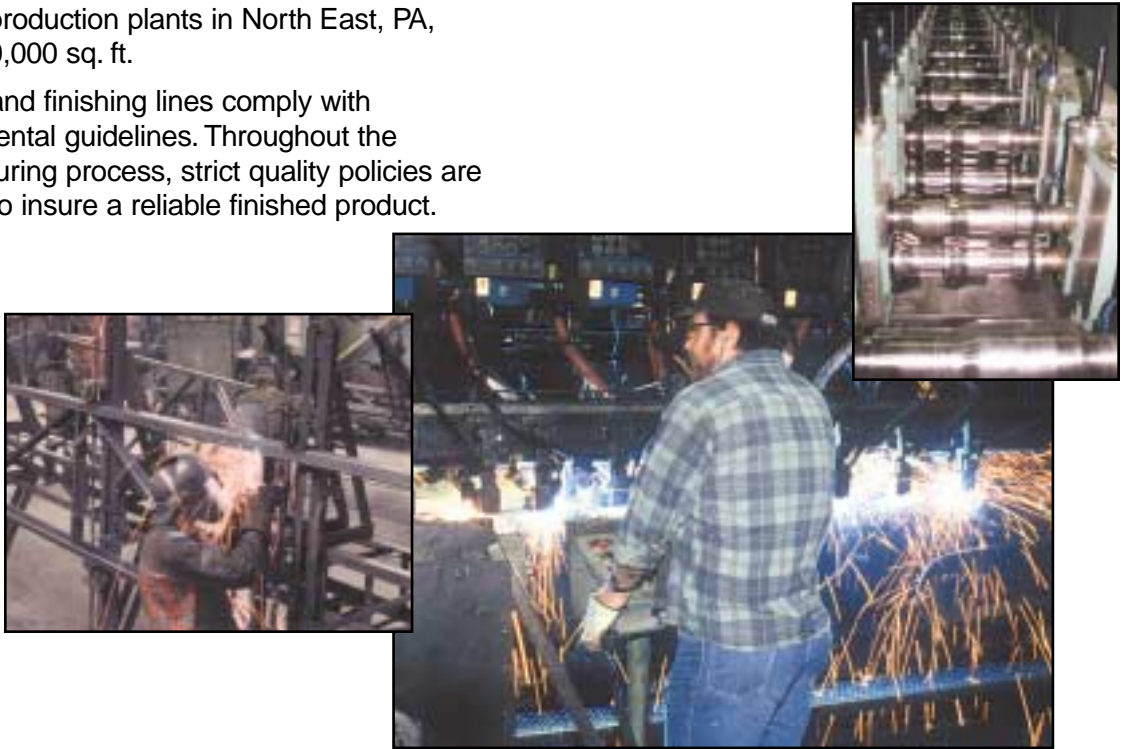
Manufacturing

Ridg-U-Rak is one of the largest storage rack manufacturers in North America with an annual production capacity of more than 100,000,000 pounds of product.

Our two production plants in North East, PA, cover 160,000 sq. ft.

Painting and finishing lines comply with environmental guidelines. Throughout the manufacturing process, strict quality policies are followed to insure a reliable finished product.

*one of the largest
storage rack
manufacturers*



Stocked Rack

Ridg-U-Rak has a number of stocking distributors across the country that maintain inventories of the most commonly used rack components. If you have an urgent need, count on Ridg-U-Rak for fast service.





independent lab testing

Laboratory Testing

Ridg-U-Rak is one of very few manufacturers to conduct independent laboratory testing of its products to verify calculations.

Every product line has been capacity-rated using this procedure. Every kind of load carrying component has been destructive tested. It's an expensive and time-consuming process, but we feel it's the responsible thing to do. Don't you?



Installation Services

Ridg-U-Rak's full-time installation crews are available to handle installation of your rack system. Their experience can make for a smooth transition in both new warehousing and retrofitting.



***For more information on Ridg-U-Rak storage systems,
please call for any of these product brochures:***



High Density Storage Systems
Manual 37



Horizontal Pallet Transfer System



Pick Module Storage Systems
Manual 40



Wide Span Shelving
Manual 17



Pallet Rack Storage Systems
Manual 38



Stac-U-Rak Systems
Manual 32

How to Order

To order, or for more information, call and talk to our specially trained inside sales team. Or for hometown service, call your local Ridg-U-Rak Distributor listed in the Yellow Pages.

Phone: 814-725-8751 Fax: 814-725-5659

Toll Free: 1-866-479-7225 www.ridgurak.com



RIDG-U-RAK®

RIDG-U-RAK, INC. NORTH EAST, PA 16428

Famous for integrity for over 50 years

*Proud member
of these organizations*



THE MATERIAL HANDLING INSTITUTE, INC.

MEMBER COMPANY

Incorporated in 1945, The Material Handling Institute is a national trade association of material handling equipment manufacturers dedicated to promoting the proper and effective use of their equipment and services.

MEMBER COMPANY



RACK MANUFACTURERS INSTITUTE

The Rack Manufacturers Institute, organized in 1958, represents the majority of U.S. rack manufacturers and is dedicated to maintaining rack performance standards.



MHEDA is a professional organization dedicated to further educating, improving the proficiency and enhancing the professional image of material handling distributors nationwide.

Ridg-U-Rak is a proud member in good standing of RMI. The Storage Rack covered by this manual is in full compliance with the latest design specification approved by the members of the RACK MANUFACTURERS INSTITUTE. We believe that it is important to you that your supplier be committed to the principles of continuous improvement in both product design/application, and in the highest professional and ethical standards of performance as embodied in the mission and work conducted within RMI.