



Structural Cantilever Systems



RIDG-U-RAK®

Cantilever Storage Racks

Structural steel cantilever storage systems are multi-level, high density storage racks designed to handle many different types and sizes of products with freedom from column obstruction. Cantilever storage racks offer more flexibility for placing and removing products. Cantilever offers the best solution when unobstructed access is required for longer dimensional products, such as carpet, lumber, bar/plate stock and pipe. Cantilever racks can also be decked for use with odd-sized bundles, crates or bulk items like furniture.

- Strong and durable structural steel construction
- No aisle-side column – unrestricted access to your product
- Arms are vertically adjustable on 4" centers to accommodate various load heights
- Efficient use of vertical space
- Easily store materials of varying dimensions
- Columns punched on both sides for single or double sided storage
- Decking options are available
- Available in painted or galvanized finish
- All connections are bolted
- A variety of component sizes and capacities are available to accommodate different loads
- Accessories include product retaining poles, protective end caps and sign holders



Optimize use of available Cube Space with Cantilever Storage Racks





Double Sided
Cantilever



Single Sided
Cantilever



Cantilever Components

Cantilever racks have load carrying arms projecting from a single column bolted at one end only. Cantilever racks have no aisle-side columns, therefore, optimizing space utilization and allowing immediate access to your inventory.

Bracing - Pre-punched and factory welded for bolting to bracing clips on the columns.

Column - Wide flange (WF) sections with punched holes in both flanges. Columns can be used in both single and double sided applications.

Arm - Vertically adjustable on 4" centers. Arm pitch 3/4" per foot.

Base - Base length equals arm length or longer.

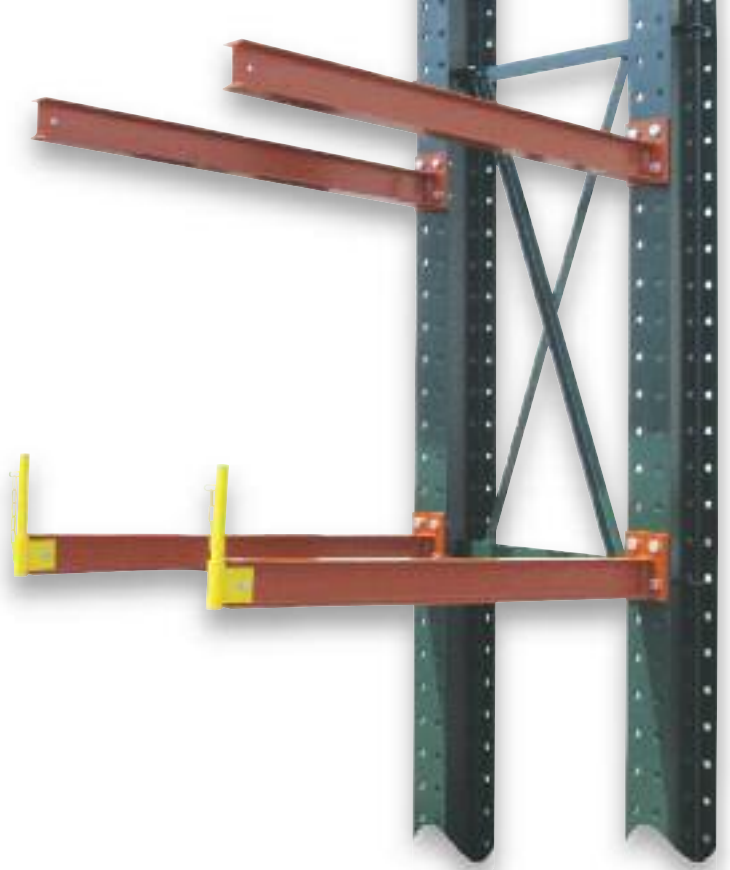
Accessories - Optional soft plastic protective caps, retaining poles or sign holders are available.

Hardware - All necessary hardware is included with each component.



Columns & Bases

- Column must have 6" clear above top arm
- All cantilever columns have holes punched on 4" vertical centers
- Cantilever column horizontal hole center-to-center spacing is 2-3/4"
- Base section is always the same as the column section
- All bolt and anchor holes are 13/16" diameter
- All cantilever must be anchored to concrete
- Column height is dependent on desired storage needs and the lifting height capability of the equipment used
- Column spacing is determined based on product weight, size and rigidity



Column Capacity

Single-Sided Capacity*										
Column Part**	Nominal Col. Depth (in.)	Max Hgt to Top Arm (ft.)	Arm Length (in.)							
			24"	30"	36"	42"	48"	52"	54"	60"
CTS-08	8"	18'	19,500	17,500	15,800	14,400	13,300	12,600	12,300	11,300
CTS-10	10"	24'	30,300	27,500	25,200	23,200	21,600	20,600	20,100	18,900
CTS-12	12"	24'	42,400	38,500	35,300	32,600	30,200	28,900	28,200	26,500

* Column capacities shown are for single-sided application. The load on the base is not included in capacity ratings.

Capacity for a double-sided configuration would be double the values in table.

**For additional sizes and seismic ratings, contact Ridg-U-Rak.

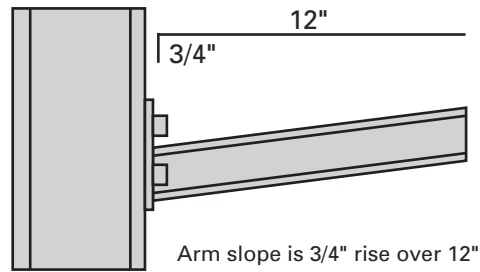


Base Length must equal arm length or longer.



Arms

- Arm vertical spacing is dependent on the load size and lift clearance required
- Arm lengths are dependent on the depth of the product stored
- Various sizes are available depending on required capacity



Column Bracing

Lateral stability and spacing of the columns is accomplished with factory welded Vertical x-Brace Panels and Horizontal Brace members.

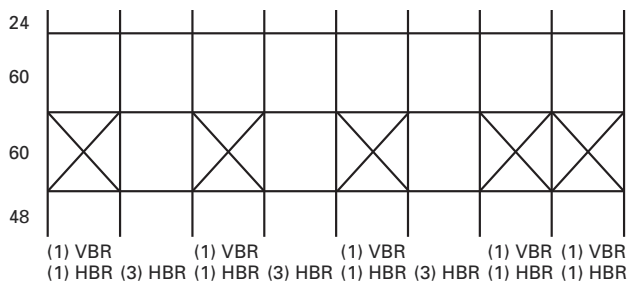
Vertical Bracing Requirements (VBR)



Vertical x-Brace Panels, as shown in figure below, are required in each end bay of any row, and in alternate interior bays. Factory welded attached bracing clips will properly position the bracing on the column.

See Bracing Pattern Chart for various column heights. To ascertain bracing required for in-between sizes select next larger size.

Horizontal Bracing Requirements (HBR)

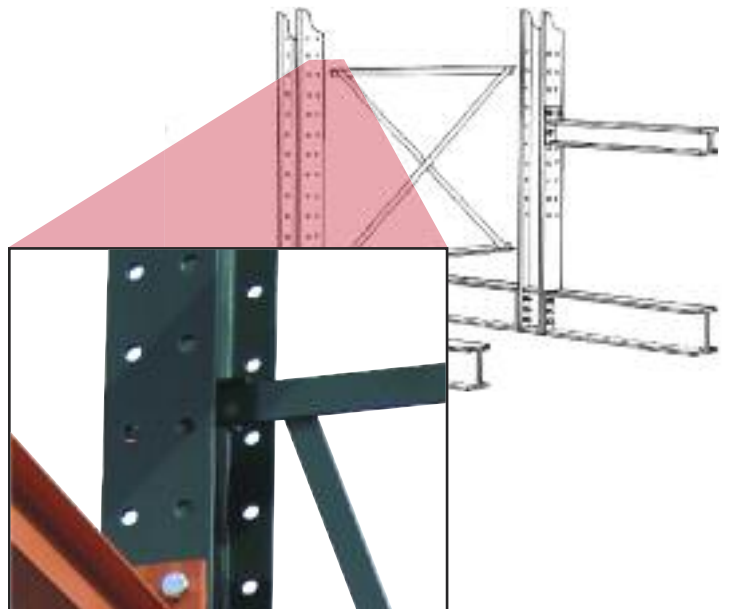
Horizontal single-angle bracing is configured as shown below or is indicated in Bracing Pattern figure.



 = VBR (x-Brace welded assy)
 = HBR (single-angle)

Arm Capacity Ratings									
Arm Type	Arm Height	Arm Capacity (LBS)*							
		24"	30"	36"	42"	48"	52"	54"	60"
CAS-03	3"	3,200	2,500	2,100	1,800	1,550	1,425	1,300	1,050
CAS-04	4"	5,225	4,200	3,500	3,000	2,625	2,425	2,350	2,100
CAS-05	5"	6,600	5,300	4,400	3,750	3,300	3,050	2,925	2,650

*Arm capacities in this table are based on uniformly distributed load. Consult with Ridg-U-Rak Engineering when loads are concentrated.



Bracing Pattern									
8'	10'	12'	14'	16'	18'	20'	22'	24'	26'
30"	48"	45"	48"	48"	48"	45"	48"	48"	48"
60"	60"	60"	60"	60"	60"	60"	60"	60"	60"
60"	60"	60"	60"	60"	60"	60"	60"	60"	60"
60"	60"	60"	60"	60"	60"	60"	60"	60"	60"

Engineering Design

RIDG-U-RAK's Structural Steel Cantilever Systems are designed in accordance with current model codes and specifications. All of our cantilever components meet ASTM A992 specifications for high strength steel with a minimum yield of 50,000 psi.



No aisle-side columns allows for unrestricted access to your product





Storage Rack Systems

100% Selective Pallet Racks

- Original Slotted
- Tear Drop
- Structural

High Density Storage

- Drive-In/Drive-Thru
- Push-Back
- Gravity Flow
- Very Narrow Aisle
- Pick Modules
- Horizontal Pallet Transfer System

Specialized Storage

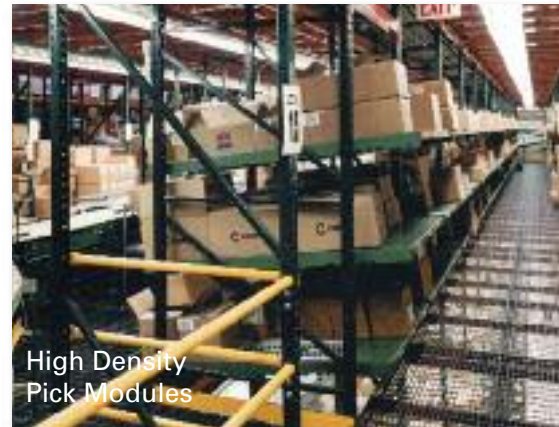
- Stac-U-Rak Stacker Systems
- Extendo-Max Roll-Out Shelving
- Cantilever
- Wide Span



Tear Drop Pallet Rack



High Density Push-Back



High Density Pick Modules

For more information,

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Ridg-U-Rak is a founding 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.

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