



UNIRAK STORAGE SYSTEMS



Professional Grade Racking

**Stock Solutions
Quick Ship
Rack**

**Intralogistics
Optimized
Rack**



North America has standardized the Tear Drop/ Riveted Beam End Plate design for good reason - no other combination provides better connectivity, capacity, system rigidity AND long term flexibility for product mix elevation changes. Having a system that easily adapts as your needs change and that maintains higher re-sale value than any other is a win-win. Frames are one piece MIG welded of 55 KSI hi-strength steel.

UNIRAK Frame Capacity

Shelf Spacing Floor to top of first level, or greatest vertical span.	UFL18 16,000 lbs. 3" x 1 5/8" Column 14GA HS	UFH29 21,200 lbs. 3" x 3" Column 14GA HS	UFH30 32,900 lbs. 3" x 3" Column 13GA HS	UFH37 37,800 lbs 3" x 3" Column 12GA HS
36	18800	24400	41500	47600
42	17600	23000	37200	42900
48	16000	21200	32900	37800
54	14300	19500	28600	32800
60	13000	18000	25000	28700
66	11700	16400	22600	26000
72	10300	14700	20100	23000
78	9100	13200	17900	20400
84	8000	11700	16000	18100
90	7100	10500	14200	16100
96	6400	9400	12500	14500

*Above components meet or exceed current AISI & RMI capacity & deflection specifications.
Contact factory for first level beam spacing greater than 96 inches.*

Common Frame Add-Ons and Options:

**Double
Posting
1 leg or 2**



Recommended for high traffic areas, at minimum 60" high. Impact protection and capacity gains.

**HD Frame
Splice
Kits**



HD splice kits feature outer wrap and inner splice matched pattern mounting plates.

**8" x 8" by
3/8" Base
Plates**



Common in seismic areas and where tall height to depth ratios require additional anchoring.

**Welded
Deflecto
Guards**



Available in bolt-on or welded in 4" to 60" height- 2.5"x2.5"x1/4" structural angle.

**Nesting
Shims
(foot plates)**



Per RMI guidelines, rack frames must be plumb to achieve specified capacity. Anti-spin, 1/8th thick.

Unirak Step Beams feature 55 KSI hi-strength steel that is continuously hi-frequency seam welded on a state-of-the-art tube mill (installed in 2015). This provides consistent robotic end plate weldable shapes and precision length cuts. SEVEN step beam profiles provide capacity matched sizing. Optimized vertical cube use and cost efficiency is assured. Unirak Beams feature 3 Rivet connectors (4 rivet available and standard on 6.5" SB650) and replaceable locking clips.

UNIRAK Beams Capacity

14GA HS 1 5/8" step beams-profiles available:

Deck Spec:

1 5/8" at top

2 1/2" at bottom

Heights:



2.5"



3.5"



4.125"



4.625"



5.125"



6"



6.5"

Length:	SB250	SB350	SB418	SB458	SB518	SB600	SB650
48	4205	7000	9060	10860	12600	12600	12600
72	2675	4655	6025	7225	8515	10990	12515
84	1965	4420	5730	6870	8100	10450	11910
96	1505	3385	5005	6005	7080	9135	10410
102	1330	2995	4510	5645	6660	8590	9790
108	1190	2675	4025	5325	6280	8110	9240
120	960	2165	3260	4340	5645	7285	8300
144	670	1505	2265	3020	3920	5875	7160

1. Capacities are shown per pair of beams for Uniform Distributed Loads (meeting RMI 2012 cap guidelines).
2. Beams over 114" should be tied across middle to prevent lateral beam spread/rotation- contact dealer for info.
3. Beams over 90" that support non-waterfall/ flanged or tek screwed decking should be tied together (Consider UA206 crossbars).
4. Full loads per above chart reflect lesser of bending vs. L/180 deflection criteria.

Common Beams Add-Ons and Options:

**8" HD
4 Rivet
Endplates**



All SB650 beams feature 8" endplates but also used for HD applications, some seismic, and single beam level installs.

**Infinitely
Adjustable
Endplates**



Commonly used in gravity pallet & carton flow to provide conveyor support where slopes vary.

**Replacement
Spring Safety
Clips/Pins**



Standard clips are factory installed and powder coated. Replacements are ZINC coated and in stock- Grav. Pins.

**Alt. Beams: Sq/
or Rect. Tube
Structural "C"**



Manufactured to spec-from HD tube/structural channel beams to light duty hand stack small profile box beams.

**Capacity
Labels**



Operators should be aware of safe load capacity limits Labels are available or spec for in house production.



UNIRAK Storage System Accessories

Maximum safety and productivity in your warehouse



Row Spacer/ Wall Tie

UA201/2/3/4



Standard duty 201/ 203 series row and wall ties are 14 GA galvanized. 202/ 204 HD are tubular powder coated. Both inc. frame hardware only.

Cross Bar Supports

UA206



When hi-quality rack-able pallets are used, UA206 Cross Bars offer added safety for misplaced or skewed pallets.

Reel Holders

UA212



Store/ dispense spooled product. Accepts upto 1.75 inch diameter axles. Sold in pairs.

Fork Entry Bars

UA215



Sheet stock, or any product non-palletized product, can be stored and supported on 3.5" tubular supports.

Post Protectors

UA217



Recommended for high traffic areas, at minimum aisle entry points. 1/4" thick steel, multi height with 4 anchor holes.

Back Stop Beams

UA222



UA222 Back Stop Beam Assemblies come in 3 pc kits. 1.5" square tube bolts to 12 GA Bkts. Offsets to spec.

End of aisle guards

UA225



Similar to UA217 post protectors, one leg is long and allows 1/4" thick steel to run depth of upright for protection.

Wire Mesh Decks

WMD DxL



We stock Made in USA Wire Mesh Deck. 42"/48" deep decks feature cut channel style while 24"/36"=flared.

Solid Steel Decks

SSD DxL



In applications where heavy point loading is expected, we manufacture 12 GA solid deck with tubular supports.

Wire or Net Rack Back

10 GA Steel or Net



Full steel mesh wire rack back or netting combined with UA222 Pallet Back Stops (net) protect adjacent traffic areas.

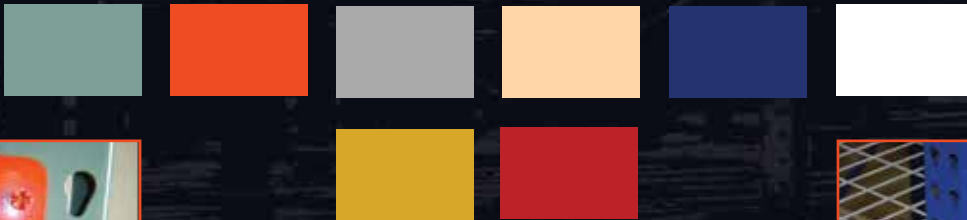
UNIRAK STORAGE SYSTEMS

Hi-Gloss, Durable Powder Coat Finish

Our high strength steel racking components start with a multi-stage phosphate bath prior to electrostatic coating then baking. The result is an abrasion resistant finish second to none.



Pick high contrast colors to complement your operation.



Standard:
Vista Green
Upright & Safety
Orange Beams



Red, yellow, 100's of RAL colors and custom color matching is available and quoted to spec.



Low to No Cost
Options include:
Blue, White, Grey,
and Light Ivory



Galvanized Hot Dip Zinc Coating

Meets ASTM A 123-12

For high humidity, outdoor or abusive environments, your rack can be Hot Dip Galvanized.





STOCK SOLUTIONS QUICK SHIP RACKING

Frames:

Part Number	Height (in) by Depth (in)	Capacity (in lb)
UFL18	96 x 24	16,000
UFL29	144 x 36	21,200
UFL18	96 x 42	16,000
UFL18	120 x 42	16,000
UFL18	144 x 42	16,000
UHF29	144 x 42	21,200
UHF29	192 x 42	21,200
UFL18	96 x 48	16,000
UFH29	144 x 48	21,200

Beams:

Part Number	Length (in)	Capacity (in lb)
SB350	48	7000
SB350	96	3385
SB418	96	5005
SB518	96	7080
SB518	108	6280
SB518	120	5645
SB600	144	5875

Wire Mesh Decking:

Part Description	Size (depth by width,in)	Capacity (in lb)
Wire Deck	24 x 46	2500
Wire Deck	36 x 46	2500
Wire Deck	36 x 58	2500
Wire Deck	42 x 46	2500
Wire Deck	24 x 58	2500
Wire Deck	48 x 46	2500
Wire Deck	48 x 58	2500

COMMON ACCESSORIES:

UA201	6"	Row Spacer-6"
UA201	12"	Row Spacer-12"
UA206	42"	Cross Bar 42" 2500/pr
UA217	12"	Post Protector-12" Orange
Shims	3.25" x 4.5" x 1/8"	
Anchor	1/2" x 3.75"	

Need a rack solution quick? We have 100's of frames and 1,000's of beams, deck and accessories in stock.

Ask your dealer about the UNIRAK Stock Solutions Quick Ship program. We plan vacant production slots - even custom, made to order solutions can often hit your tight deadline.

STOCK
SOLUTIONS

Racks that perform AND look great land us repeat customers. But don't take our word for it:



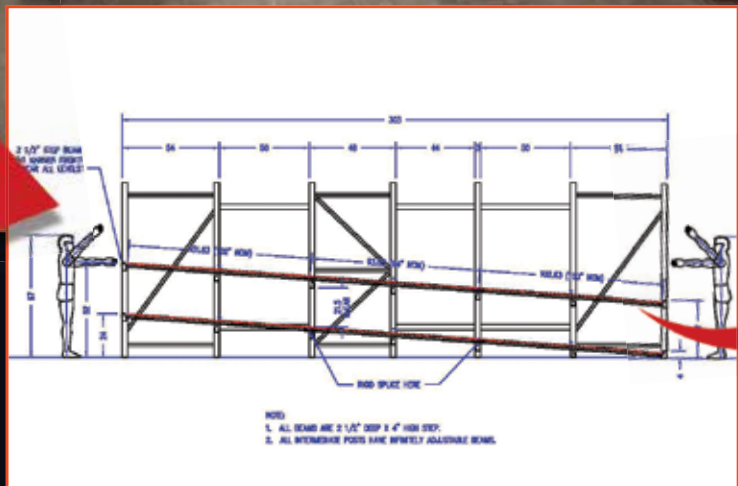
Ask your professional Material Handling Equipment Dealers for local references.



UNIRAK STORAGE SYSTEMS

Quality pallet and dynamic racking structures are the backbone of the modern warehouse. Trust decades of experience, state-of-the-art roll-forming mills, robotic welding cells and hi-gloss powder coating to complement your operation. Below, a hybrid rack system supplies push-back over carton flow rack, we bring high efficiency solutions to life:

From concept drawings to timely shipment and professional installation, Unirak provides 100% Customer Satisfaction.





UNIRAK STORAGE SYSTEMS



Have large DC's with 1000's of Selective Pallet Rack Positions?



Or need custom designed Unirak selective rack on a space saving movable aisle rack system?

We supply precision manufactured AS/RS rack systems and rack supported building structures:



UNIRAK is your Professional Grade, Universal rack solution.

UNIRAK Storage Systems

by F&F Industries, Inc.

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