

Rivet-Span®

Rivet-Span starts with a simple, economical design. A unit consists of posts, horizontal beams and wood decking. Using sturdy rack-like beam-to-post connections, beams have high strength shoulder rivets that engage double keyhole post slots. The assembled heavy-duty, 14 gauge steel frame forms an extremely strong and rigid storage unit.

A variety of beams adds versatility. Rivet-Span has six types and 15 sizes, in spans and depths wider and greater than conventional shelving, to accommodate a wide range of loads and optimize your storage.

All components are universal – no lefts or rights, no fronts or backs. Units are universal and can be accessed from any or all four sides.

Without the hassle of nuts, bolts, clips or cross braces, installation is quick and easy. Most units can be assembled in minutes using only a rubber mallet.

This results in a storage product that is incredibly economical, versatile and easy to assemble...And, Borroughs' finish process means your Rivet-Span will continue to look great, even after years of heavy use.



Economical

Low initial investment
reduces shelving costs.

Quick labor saving installation
reduces set-up
costs.

Sizes to eliminate costly
decking material cutting
charges.

Strong

Steel frame construction
extends shelving life.

Rigid boltless connection
between posts and
beams.

Secure double key hole and
shoulder rivet connections.

Flexible

Allows access from any or
all four sides.

Variety of beams to accommodate
a wide range of
loads.

Spans up to 8' to optimize
storage.

Simple Assembly

All pieces universal

- No lefts or rights
- No fronts or backs
- No tops or bottoms

Requires no cross or sway
braces.



Bulk Storage Units

Rivet-Span is ideally suited to virtually any type of hand-loaded material. It is designed for greater cube capacity than shelving and lower price than rack. Rivet-Span can be used to make bulk storage racks for storing a broad range of hand-loaded heavy materials, bulky parts or hard-to-store items.

- ◆ Designed for spans of 48" to 96" wide.
- ◆ Choice of beam capacity to meet your storage requirements.
- ◆ Uses double rivet angle, channel or Z beams.
- ◆ Beam levels adjust on 1-1/2" centers.
- ◆ T Post adder units further reduce material investment and installation time.



Shelf Units

Rivet-Span can also be used as quick, low-cost steel wood shelving. Single rivet and double rivet low profile beams provide maximum space between shelf levels. Plus, Rivet-Span is ideal for double entry shelving units. It can be accessed from all four sides because no cross braces or face braces are required for stability.

- ◆ Designed for units up to 48" wide.
- ◆ Uses single rivet or double rivet low profile beams on intermediate levels.
- ◆ Uses full "perimeter" double rivet angle beams at the top and bottom levels for rigidity.
- ◆ Shelf levels adjust on 1-1/2" centers.
- ◆ T Posts provide additional savings on runs of shelving.



Specialty Units

Special uses of Rivet-Span are limited only by the imagination of the individual. Some of the obvious uses are as archival records storage units or tire racks or three foot high units and rows as work benches and packing or receiving tables. Additionally, retail establishments can use Rivet-Span for back room garment hang rod units. Rivet-Span is perfect for many hard-to-store items.

Rivet-Span®

Bulk Storage Units

Simple, economical storage that is strong for today's wide variety of hand-loaded bulky, heavy, or hard-to-store items. Rivet-Span offers a complete range of sizes with spans and depths wider and greater than conventional shelving.



48" Wide



7'0" High 4 Beam Levels

Starter Unit	Adder Unit	Unit Depth	Capacity Per Beam Level***	Beam Type	Extra Beam Level
B4818DR47	A4818DR47	18"	730 lbs.	Angle	BL4818DR
B4824DR47	A4824DR47	24"	730 lbs.	Angle	BL4824DR
B4830DR47	A4830DR47	30"	730 lbs.	Angle	BL4830DR
B4836DR47	A4836DR47	36"	730 lbs.	Angle	BL4836DR
B4848DR47	A4848DR47	48"	730 lbs.	Angle	BL4848DR

60" Wide



B6018DR47	A6018DR47	18"	680 lbs.	Angle	BL6018DR
B6018DH47	A6018DH47		1300 lbs.	*Angle	BL6018DH*
B6018CH47	A6018CH47		*2250 lbs.	*Channel**	BL6018CH*
B6024DR47	A6024DR47	24"	680 lbs.	Angle	BL6024DR
B6024DH47	A6024DH47		*1300 lbs.	*Angle	BL6024DH*
B6024CH47	A6024CH47		*2250 lbs.	*Channel**	BL6024CH*
B6030DR47	A6030DR47	30"	680 lbs.	Angle	BL6030DR
B6030DH47	A6030DH47		*1300 lbs.	*Angle	BL6030DH*
B6030CH47	A6030CH47		*2250 lbs.	*Channel**	BL6030CH*
B6036DR47	A6036DR47	36"	680 lbs.	Angle	BL6036DR
B6036DH47	A6036DH47		*1300 lbs.	*Angle	BL6036DH*
B6036CH47	A6036CH47		*2250 lbs.	*Channel**	BL6036CH*
B6048DR47	A6048DR47	48"	680 lbs.	Angle	BL6048DR
B6048DH47	A6048DH47		*1300 lbs.	*Angle	BL6048DH*
B6048CH47	A6048CH47		*2250 lbs.	*Channel**	BL6048CH*

72" Wide



B7218DR47	A7218DR47	18"	450 lbs.	Angle	BL7218DR
B7218DH47	A7218DH47		*1050 lbs.	*Angle	BL7218DH*
B7218CH47	A7218CH47		*1700 lbs.	*Channel**	BL7218CH*
B7224DR47	A7224DR47	24"	450 lbs.	Angle	BL7224DR
B7224DH47	A7224DH47		*1050 lbs.	*Angle	BL7224DH*
B7224CH47	A7224CH47		*1700 lbs.	*Channel**	BL7224CH*
B7230DR47	A7230DR47	30"	450 lbs.	Angle	BL7230DR
B7230DH47	A7230DH47		*1050 lbs.	*Angle	BL7230DH*
B7230CH47	A7230CH47		*1700 lbs.	*Channel**	BL7230CH*
B7236DR47	A7236DR47	36"	450 lbs.	Angle	BL7236DR
B7236DH47	A7236DH47		*1050 lbs.	*Angle	BL7236DH*
B7236CH47	A7236CH47		*1700 lbs.	*Channel**	BL7236CH*
B7248DR47	A7248DR47	48"	450 lbs.	Angle	BL7248DR
B7248DH47	A7248DH47		*1050 lbs.	*Angle	BL7248DH*
B7248CH47	A7248CH47		*1700 lbs.	*Channel**	BL7248CH*

96" Wide



B9618DH47	A9618DH47	18"	*650 lbs.	*Angle	BL9618DH*
B9618CH47	A9618CH47		*1300 lbs.	*Channel**	BL9618CH*
B9624DH47	A9624DH47	24"	*650 lbs.	*Angle	BL9624DH*
B9624CH47	A9624CH47		*1300 lbs.	*Channel**	BL9624CH*
B9630DH47	A9630DH47	30"	*650 lbs.	*Angle	BL9630DH*
B9630CH47	A9630CH47		*1300 lbs.	*Channel**	BL9630CH*
B9636DH47	A9636DH47	36"	*650 lbs.	*Angle	BL9636DH*
B9636CH47	A9636CH47		*1300 lbs.	*Channel**	BL9636CH*
B9648DH47	A9648DH47	48"	*650 lbs.	*Angle	BL9648DH*
B9648CH47	A9648CH47		*1300 lbs.	*Channel**	BL9648CH*

Starter unit has (4) angle posts; Adder unit has (2) T posts.

*Includes (1) support tie, except 96" which has (2) support ties.

**Units with channel beams have angle beams with support ties located directly at the floor level.

***Capacities are for steel beams only with evenly distributed loads and do not reflect the capacity of the decking material. All units include metal frame only. Decking material must be ordered separately.



Rivet-Span® Shelf Units

Quick low-cost shelving with low profile steel supports. Rivet-Span's single rivet and double rivet low profile beams provide optimum vertical shelf openings without the hassle of nuts, bolts, clips or cross braces.

Single Rivet Shelf Units*

7'0" High 6 Beam Levels

36" Wide



Starter Unit

Adder Unit

Unit Depth

Capacity Per Beam Level***

Extra Shelf Level

B3612SR67
B3618SR67
B3624SR67
B3636SR67

A3612SR67
A3618SR67
A3624SR67
A3636SR67

12"
18"
24"
36"
350 lbs.
350 lbs.
350 lbs.
350 lbs.

BL3612SR
BL3618SR
BL3624SR
BL3636SR

42" Wide



B4212SR67
B4218SR67
B4224SR67
B4236SR67

A4212SR67
A4218SR67
A4224SR67
A4236SR67

12"
18"
24"
36"
260 lbs.
260 lbs.
260 lbs.
260 lbs.

BL4212SR
BL4218SR
BL4224SR
BL4236SR

48" Wide



B4812SR67
B4818SR67
B4824SR67
B4836SR67

A4812SR67
A4818SR67
A4824SR67
A4836SR67

12"
18"
24"
36"
240 lbs.
240 lbs.
240 lbs.
240 lbs.

BL4812SR
BL4818SR
BL4824SR
BL4836SR

Double Rivet Low Profile Shelf Units*

7'0" High 7 Beam Levels

36" Wide



Starter Unit Catalog

Adder Unit Catalog

Unit Depth

Capacity Per Beam Level***

Extra Shelf Levels

B3612LP77
B3618LP77
B3624LP77
B3636LP77

A3612LP77
A3618LP77
A3624LP77
A3636LP77

12"
18"
24"
36"
450 lbs.
450 lbs.
450 lbs.
450 lbs.

BL3612LP
BL3618LP
BL3624LP
BL3636LP

42" Wide



B4212LP77
B4218LP77
B4224LP77
B4236LP77

A4212LP77
A4218LP77
A4224LP77
A4236LP77

12"
18"
24"
36"
430 lbs.
430 lbs.
430 lbs.
430 lbs.

BL4212LP
BL4218LP
BL4224LP
BL4236LP

48" Wide



B4812LP77
B4818LP77
B4824LP77
B4836LP77

A4812LP77
A4818SR67
A4824LP77
A4836LP77

12"
18"
24"
36"
400 lbs.
400 lbs.
400 lbs.
400 lbs.

BL4812LP
BL4818LP
BL4824LP
BL4836LP

Starter Unit has (4) angle posts; Adder Unit has (2) T posts.

*All units include double rivet angle beams, left-to-right and front-to-back, at the top and bottom beam levels.

***Capacities are for steel beams only with evenly distributed loads and do not reflect the capacity of the decking material.

All units include metal framing only. Decking material must be ordered separately.

Shelf units 24" deep or less include only (2) intermediate front-to-back single rivet beams. Units 30" or deeper include front-to-back single rivet beams at every intermediate beam level.

**Extra shelf levels 24" deep or less include left-to-right beams only. Extra shelf levels 30" or deeper also include front-to-back single rivet beams.

Rivet-Span®

Components and Accessories

Angle Post



Standard duty upright post. 1.57" x 1.57", 14 gauge, punched on 1-1/2" centers.

Catalog #	Size	Catalog #	Size
10061-000	6'0"	10061-003	9'0"
10061-001	7'0"	10061-004	10'0"
10061-002	8'0"	10061-006	12'0"

Heavy-Duty Angle Post



Designed for maximum load capacity and stability. 1-7/8" x 1-7/8", 14 gauge, punched on 1-1/2" centers.

Catalog #	Size	Catalog #	Size
10060-000	6'0"	10060-006	12'0"
10060-001	7'0"	10060-008	14'0"
10060-002	8'0"	10060-009	15'0"
10060-003	9'0"	10060-010	16'0"
10060-004	10'0"		

Tie Plate - Angle Post



Connects posts of adjacent angle post units to insure structural stability and alignment. 14 gauge.

Catalog #
10066-000

Post Splicer - Angle Post



Used to extend the height of angle posts or heavy-duty angle posts. 13 gauge.

Catalog #
10065-000

T Post



Common post between adjoining units to create economical starter and adder units. 3.34" x 1.57", 14 gauge, punched on 1-1/2" centers.

Catalog #	Size	Catalog #	Size
10132-000	6'0"	10132-003	9'0"
10132-001	7'0"	10132-004	10'0"
10132-002	8'0"	10132-006	12'0"

Post Splicer - T Post



Used to extend the height of T Posts. 14 gauge.

Catalog #
10145-000

Foot Plate



Used for weight distribution and securing posts to the floor. Designed for single (row end) and double (intermediate) posts. Use with either standard or heavy-duty angle, or T posts. 4" x 2", 14 gauge.

Catalog #
10060-000

Single Rivet Beam



Left-to-right and front-to-back support for shelf decking. 1" high, 14 gauge.

Catalog #	Size	Catalog #	Size
10063-000	12"	10063-004	30"
10063-001	15"	10063-005	36"
10063-002	18"	10063-006	42"
10063-003	24"	10063-007	48"

Double Rivet Low Profile Beam



Heavier duty left-to-right support shelf decking. 1-1/4" high, 14 gauge.

Catalog #	Size	Catalog #	Size
16330-091	36"	16331-011	48"
16331-001	42"		

Double Rivet Z Beam



Reduced profile left-to-right and front-to-back support recesses decking to provide additional vertical storage space and protect decking edges. 2-1/4" high, 14 gauge.

Catalog #	Size	Catalog #	Size
10142-000	12"	10142-005	36"
10142-001	15"	10142-006	42"
10142-002	18"	10142-007	48"
10142-003	24"	10142-008	60"
10142-004	30"	10144-009	69"
10142-012	32"	10144-010	72"

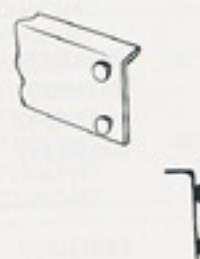
Z Tie



Used with Z Beam to support decking material.

Catalog #	Size	Catalog #	Size
10110-003	24"	10110-005	36"
10110-004	30"	10110-006	42"
10110-012	32"	10110-007	48"

Double Rivet Angle Beam

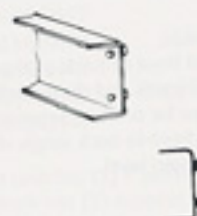


Standard left-to-right and front-to-back support for bulk storage decking and top and bottom level shelf decking. 2-5/8" x 7/8", 14 gauge.

Catalog #	Size	Catalog #	Size
10068-000	12"	10068-007	48"
10068-001	15"	10068-008	60"
10068-002	18"	10068-009	69"
10068-003	24"	10097-009*	69"
10068-004	30"	10068-010	72"
10068-012	32"	10068-013	84"
10068-005	36"	10068-011	96"
10068-006	42"		

*Punched to accept Record Storage Support Angle.

Double Rivet Channel Beam



Higher capacity left-to-right support for bulk storage decking. 3" x 7/8", 14 gauge. Channel beams cannot be located directly at floor level due to their longer face. For a beam level directly at floor level, use angle beams with support ties.

Catalog #	Size	Catalog #	Size
10070-007	48"	10070-010	72"
10070-008	60"	10070-013	84"
10070-009	69"	10070-011	96"
10098-009*	69"		

*Punched to accept Record Storage Support Angle.

Support Tie



Adds support to decking material and increases capacity of double rivet angle and channel beams by limiting rotation. 2-1/2" high, 14 gauge.

Catalog #	Size	Catalog #	Size
10072-000	12"	10072-004	30"
10072-001	15"	10072-012	32"
10072-002	18"	10072-005	36"
10072-003	24"	10072-006	42"
		10072-007	48"

Tire Beam



Left-to-right support for tires and wheels. 2-23/32" high, 14 gauge.

Catalog #	Size	Catalog #	Size
10077-005	36"	10077-008	60"
10077-007	48"		

Aisle Tie



Top ties units together across aisles to maintain a constant aisle and stabilize units exceeding a height-to-depth ratio of 4. Not designed to support upper level walkways. 2-1/2" high, 14 gauge.

Catalog #	Size	Catalog #	Size
10073-000	30"	10073-002	42"
10073-001	36"	10073-003	48"

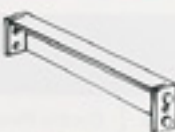
Back Spacer Tie



Spaces back-to-back shelving units where space is required between units such as tire storage. 2-1/2" high, 14 gauge.

Catalog #	Size
10079-000	18"

Wall Tie



Ties rack to wall for stability where space is required between unit and wall such as wheel storage. 2-1/2" high, 14 gauge.

Catalog #	Size
10075-000	9"

Record Storage Support Angle



Catalog #	Size
10099-000	15"
10099-001	30"

Hang Rod



Used for hanging items within a unit. One or more may be used per level. Accepts standard clothing hangers. Support at each end by either double rivet angle or channel beams. 1-1/4" x 1-1/4", 14 gauge.

Catalog #	Size	Catalog #	Size
10104-005	36"	10104-008	60"
10104-007	48"		

Mat Decking Support



Supports steel decking in catwalk systems in aisle position. Turned over, supports decking for deck over or full mat multi-level systems. 3-1/2" high, 12 gauge.

Catalog #	Size	Catalog #	Size
10111-005	36"	10111-008	60"
10111-006	42"	10111-009	69"
10111-007	48"	10111-010	72"

Slotted Angle Cleat



Used where slotted angle pieces must be joined to Rivet-Span, such as top tie or special grating supports. Use one left and right, facing each other, when creating cross aisle supports. 14 gauge.

Catalog #	Size
10113-000	Right
10113-001	Left

Particle Board Decking



Optional bulk storage and shelf decking material. 5/8" thick.

Catalog #	Size	Catalog #	Size	Catalog #	Size
10095-000	36" x 12"	10095-012	48" x 18"	10095-024	69" x 30"
10095-001	36" x 15"	10095-013	48" x 24"	10095-025	72" x 18"
10095-002	36" x 18"	10095-014	48" x 30"	10095-026	72" x 24"
10095-003	36" x 24"	10095-015	48" x 36"	10095-027	72" x 30"
10095-004	36" x 30"	10095-016	48" x 38"	10095-028	72" x 36"
10095-005	42" x 12"	10095-017	60" x 18"	10095-029	72" x 48"
10095-006	42" x 15"	10095-018	60" x 24"	10095-030	96" x 18"
10095-007	42" x 18"	10095-019	60" x 30"	10095-031	96" x 24"
10095-008	42" x 24"	10095-020	60" x 36"	10095-032	96" x 30"
10095-009	42" x 30"	10095-021	60" x 48"	10095-033	96" x 36"
10095-010	48" x 12"	10095-022	69" x 15"	10095-034	96" x 48"
10095-011	48" x 15"	10095-023	69" x 24"		

Particle board decking, 5/8" (.625) thick, is available pre-cut from Borroughs. Or it can be obtained direct from your local Borroughs Distributor. Other types and thicknesses of decking material, such as plywood, structure wood, oriented strand board or wire decking may be desired based upon load or use. These also can be obtained locally.



Specification Data

Rivet shelving units are made up of posts, side-to-side beams, and front-to-back beams. There are certain **minimum requirements** for beam use to ensure structural stability and safety. For example: all units must have a full "perimeter" of double rivet beams, meaning (2) side-to-side and (2) front-to-back, at both top and bottom of unit for stability. There are other requirements, see below.

Preconfigured Units - Include all required beams. Installation instructions (included with shipment) show how to position beams correctly.

Non-preconfigured Units - Follow these guidelines when specifying individual components:

- All units require a full perimeter of double rivet beams at top and bottom of unit.
- Single Rivet Beam (SRB) and Double Rivet Low Profile Beam (DRLPB) units 24" deep or less:
 - do not require SRB's front-to-back at each intermediate level in the unit.
 - 6'-8' high must have one intermediate level front-to-back SRB's located approximately in the middle of the unit.
 - 9'-10' high must have two intermediate levels front-to-back SRB's located to divide the height into 3 equal parts.
 - 11'-16' high must have three intermediate levels; a full perimeter of DRB's in the middle plus intermediate levels of front-to-back SRB's in the upper and lower halves of unit.
- Single Rivet Beam (SRB) and Double Rivet Low Profile Beam (DRLPB) units 30" deep or greater:
 - All units must have single rivet beams front-to-back at every intermediate beam level and units 11'-16' must have SRB's front-to-back at every intermediate level AND have a full perimeter level of Double Rivet Beams (DRB) located approximately in the middle of the unit.
- Double Rivet Angle Beams (DRAB), Double Rivet Channel Beams (DRCB) and Double Rivet Z Beams (DRZB) must have front-to-back and left-to-right beams at each beam level to provide decking support and ensure stability.
- Tie Plates are not used on units with T Posts. Tie Plates are recommended to tie adjacent angle post units together and to ensure structural stability. Tie plates should be used at the top and bottom of adjacent angle posts with additional tie plates spaced no more than 48" apart.

Calculated Post Capacities

Pounds Allowable Load Per Post

Maximum Beam Spacing In Inches	Angle Post	Heavy-Duty Angle Post
48"	1,170	1,750
42"	1,315	1,960
36"	1,460	2,180
30"	1,605	2,390
24"	1,750	2,610
18"	1,896	2,830
12"	2,040	3,050

- Maximum beam spacing is determined as the distance between left-to-right beams or front-to-back beams, whichever is greater.
- Capacities are for vertical loads only where seismic forces are not a factor.

Basic Data

Widths

Nominal unit width = 24", 30", 32", 36", 42", 48", 60", 69", 72", 84" or 96"
Actual single unit width = nominal width + 1/2"

Depths

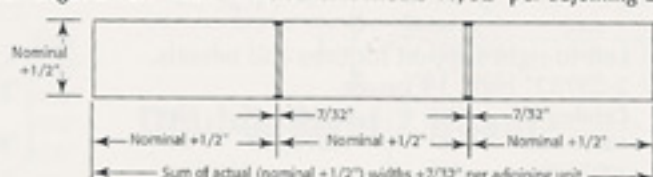
Nominal unit depth = 12", 15", 18", 24", 30", 32", 36", 42" or 48"
Actual single unit depth = nominal depth + 1/2"
Actual back-to-back units depth = combined actual single unit depths + 7/32"

Heights

Nominal unit height = 6', 7', 8', 10', 12', 14', 15' or 16'
Actual unit height = nominal height ± 1/32"

Length of Run

Actual length of run = sum of actual unit widths + 7/32" per adjoining unit



Horizontal Clear Openings

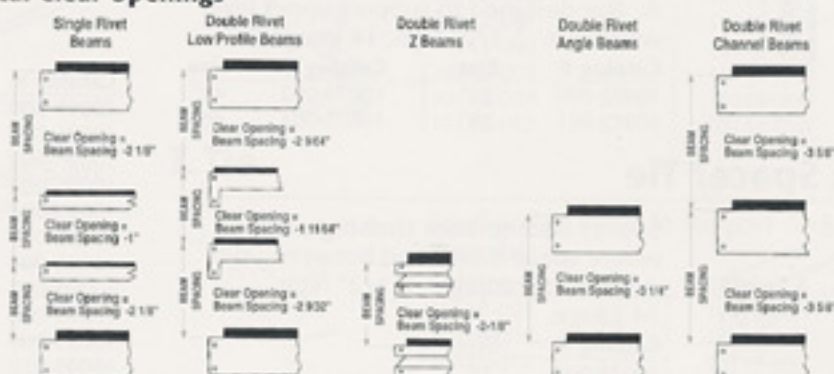
Actual clear opening between angle posts = nominal width - 2-5/8"

Actual clear opening between heavy-duty angle posts = nominal width - 3-1/4"

Vertical Adjustment

All beams are adjustable on 1-1/2" centers

Vertical Clear Openings



Vertical clearance calculated using 5/8" thick decking material.

Beam Capacities

Maximum Uniformly Distributed Loads Pounds Per Beam Pair **

Beam Length	Single Rivet Beam	Double Rivet Low Profile Beam	Double Rivet Z Beam	Double Rivet w/Z Tie*	Double Rivet Angle Beam	Double Rivet Angle Beam w/Support Tie*	Double Rivet Channel Beam w/Support Tie*
36"	350	450	1,400	-	1,400	-	-
42"	260	430	1,350	-	1,000	-	-
48"	240	400	1,300	1,600	730	1,700	-
60"	-	-	800	950	680	1,300	2,250
69"	-	-	600	900	460	1,100	1,900
72"	-	-	600	900	450	1,050	1,700
96"	-	-	-	-	240	650	1,300

*(1) support tie except 96" which has (2).

**The longest pair of beams at a given level determines the capacity for the entire level. Capacities are for steel beams only and do not reflect the capacity of the decking material.

Important:

Wall, floor or top tie anchoring is recommended for units when the height to depth ratio exceeds 4.

Example: A 7' high x 18" deep unit has a height to depth ratio of 4.67 and should be attached to a firm restraint, such as a floor, wall or tied overhead across the aisle to an opposite upright assembly.