

METALWARE INDUSTRIAL SHELVING SYSTEMS & SOLUTIONS

Strength, support and integrity are the core principles that define Metalware as the leading North American manufacturer of industrial shelving solutions.



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INTERLOK



Interlok Features and Benefits

- 16 GA T-posts capable of being spliced with a maximum weight capacity of up to *13,600 lbs per pair of T-posts (*based on the number of shelves per shelving unit)
- Posts are welded every 4" as a standard, making our posts one of the strongest in the industry
- Welded posts allow for lateral and vertical expansion up to 30' high
- Durable 20 GA welded box structure shelves with lapped and locked corners
- Shelf adjustability on 1" increments
- Easy and quick assembly
- Maximum shelf capacity of up to 800 lbs on standard shelves
- Easily expanded to create multi-level high-bay pick tower storage systems
- Strict tolerances allow **Interlok** to be incorporated into robotic and/or automated picking applications



Interlok Components

- | | |
|-----------------------------|----------------------------------|
| 1. 16 GA T-post | 6. Swing doors |
| 2. 20 GA welded box shelves | 7. Hanging bars |
| 3. Sliding dividers | 8. Perforated back panel |
| 4. Dividers | 9. End panel with welded T-posts |
| 5. Shelf boxes | 10. Modular drawers |

Interlok industrial shelving can be as simple as open or closed shelving units with various depths, widths and heights including any number of shelves and accessories.



Optimize Your Storage Application Using Metalware's Interlok Shelving

Metalware has been creating multi-tier and high-bay **Interlok** shelving systems since 1951. **Interlok** components create robust, multi-tier, densely packed storage systems. A wide variety of accessories are available to customize any application. The **Interlok** design was made to be adaptable and will overcome any obstacle in today's ever changing storage facility. We've created these systems for some of the most seismically active areas of North America.

Interlok shelving ensures cube utilization is maximized and wasted space is eliminated. Today's low-level shelving system is the base for tomorrow's multi-level or high-bay storage system.

Interlok Standard Size Chart

- Capacity can be affected by unit configuration
- Other dimensions available upon request
- Uniformly distributed load in lbs
- "X" custom configuration, only available upon request

	30"	36"	42"	48"
12"	600	800	650	550
15"	600	800	650	550
16"	X	X	650	X
18"	600	800	650	550
24"	600	800	650	450
30"	X	650	450	350
32"	X	X	450	X
36"	X	X	X	350



E-SERIES WIDESPAN



E-Series Widespan heavy-duty bulk-rack shelving offers state-of-the-art durability, flexibility and efficiency for warehouse storage needs.



E-Series Widespan Features and Benefits

- Lateral and vertical expansions using incredibly strong 12 GA roll-formed posts with a maximum weight capacity of up to 18,800 lbs per pair
- Shelving bays can be up to 8' wide and 4' deep with a shelf capacity of up to 1,500 lbs
- Provides double-sided picking and quick access to products
- Compatible with Metalware's modular drawer system

Expand Vertically Using Metalware's E-Series Widespan Heavy Duty Shelving

Featuring the highest weight capacity of the Metalware line of industrial shelving, **E-Series Widespan** heavy-duty shelving can be custom configured for a wide variety of applications.

E-Series Widespan is so strong that it can even be used to create multi-level and high-bay pick towers for a wide variety of applications including but not limited to:

- Ecommerce
- Record and archival storage
- Small and large parts storage
- Automotive and manufacturing
- Warehousing and 3PL
- Retail distribution



E-Series Widespan Components

1. Frame connector up to 4' deep
2. 12 GA roll-formed post with a post capacity of up to 18,800 lbs per pair
3. Splice bracket (does not cause any interference)
4. Beam lengths 3' - 8' wide, load up to 1,500 lbs
5. Tie bar
6. Wood, steel or wire mesh shelf options

E-Series Widespan Pair of Beams Capacity

36" - 1TB	42" - 1TB	48" - 1TB	48" - 2TB	60" - 2TB
1,500	1,350	1,100	1,300	970
66" - 2TB	72" - 2TB	84" - 2TB	96" - 2TB	96" - 3TB
840	770	850	765	950

- Capacity per pair of beams only
- Units are available in 12",15",16",18",24",30",32",36", 42" & 48" deep
- *Triangular tie bars for 84" and 96" beams only



MODULAR DRAWERS

Our heavy-duty welded drawers hold up to 450 lbs and integrate with our **Interlok** and **E-Series Widespan**. Adaptor kits are available for use with any other shelving.

Modular Drawer Benefits

- Organized and secure inventory control
- Clean, less dust particle buildup on products
- Eliminates need for corrugated or plastic boxes
- Quick and easy access with full visibility
- Recover valuable floor space
- Reduce travel time to pick and fulfill orders
- Available in gray, red, black, yellow, blue, white



Applications

- Small and large parts storage
- Automotive parts
- Electrical parts
- Plumbing parts
- Tools and accessories storage
- Manufacturing and assembly

Modular Drawers Components

1. Fully compatible and adjustable with **Interlok** and **E-Series Widespan**, and competitor brands.
2. Same height drawer front and sides - an 8" drawer front has a full 7" usable storage depth.
3. Ergonomic design - non-slip ergonomic handle design for easy grip and secure hold.
4. Drop-in dividers - customize your compartments with drop-in dividers at every inch.
5. Extendable - full-sliding extension for easy viewing and access. Self-close with 450 lbs drawer capacity. Precision slides.
6. Warranty - each drawer is backed by a 5 (five) year limited warranty against manufacturer's defects.



Available Drawer Configurations:

- 18"D x 36"W
- 18"D x 48"W
- 24"D x 36"W
- 24"D x 48"W

Available Drawer Adaptor Heights:

- 12"H
- 18"H
- 24"H
- 36"H
- 48"H
- 60"H



MULTI-LEVEL SYSTEMS

Multi-level storage systems are comprised of either **Interlok** or **E-Series Widespan** shelving units connected horizontally and vertically to create a high-density storage solution.



Multi-Level Pick Tower Features and Benefits

- Unlimited design and customization options
- Easy to install, assemble and modify
- Maximum cube utilization
- High-density storage system
- Accessible from all sides
- Cost effective alternative to: building expansions, building a structural mezzanine or relocating facilities
- Space savings and reduced pick travel times to allow for easy ROI calculations
- Can also be used to create a completely open deck on the second and/or third level
- Will integrate with other systems using custom components: beams to support conveyors, custom attachments for pallet racking, integrated structural platforms, safety pivot gates and other components

Metalware's manufacturing processes, design capabilities, experience and strength of our standard components allow us to create structurally sound intricate storage systems regardless of the seismic activity or complexity of the application.

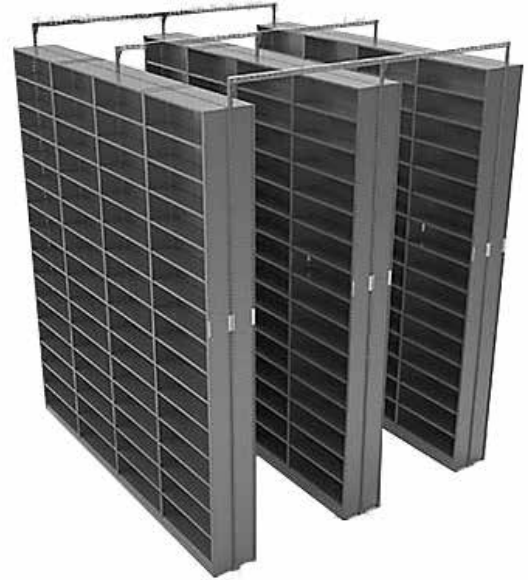


In addition to providing multi-level and pick tower systems, Metalware also offers the possibility to create custom accessories to adapt to these systems, including but not limited to:

- Staircases
- Modular drawers
- Handrails
- Sliding gates
- Mezzanine safety gates
- Flooring options (bar grating, Resindek, open steel planking)

HIGH-BAY SHELVING

High-bay shelving is a popular storage solution because of its low-cost and high-cube utilization. Both **Interlok** and **E-Series Widespan** systems allow for vertical expansion to maximize your storage capacity.



High-Bay Shelving Features and Benefits

- Easy to install, assemble and reconfigure
- Expand vertically up to 30' high
- Adjustable shelves, increments at every 1" (25 mm)
- Customized to fit your specific needs
- Direct and accurate picking access to products
- Fast pick and processing times
- Full line of accessories including drawers

High-bay systems are used in tandem with rolling ladders, low-level order picking equipment or standard ordering picking equipment. As a result, high-bay shelving systems in some applications offer the fastest through-put for high volume turnover.

Metalware manufactures durable and robust shelving systems as a standard. Components can be configured and reconfigured as your business and storage requirements evolve.

You will have the peace of mind knowing that a Metalware shelving system is supporting your business.



Applications

- Ecommerce
- Record and archival storage
- Small and large parts storage
- Automotive and manufacturing
- Warehousing and 3PL
- Retail distribution



CASE STUDIES

Industrial and commercial shelving and storage solutions to increase your productivity and profitability.



Automotive Distribution Center

Metalware was able to recover valuable storage space by replacing existing, inefficient pallet racking with high-density, multi-level, shelf-supported storage platforms. The image to the left depicts the wasted space. The selective rack, with a combined depth of 108" (including row spacers), was replaced with a combined depth of 48" using back-to-back **Interlok** shelving. It's no wonder this leading automotive distribution center has one of the best order-fill rates in the industry.

Walmart Distribution Center

Walmart required a high-density, high-efficiency, pick, pack, and ship storage solution for its distribution center. There was one caveat; they knew they would be expanding the distribution center, but not in the first phase of installation. Metalware proposed high-density **E-Series Widespan** shelving and extended the uprights by an additional 2'-0" to make the system future-ready for vertical expansion.



Porsche Distribution Center

Porsche's tender requirements for the new 113K sq ft distribution center were quite stringent; environmental concerns, workflow processes and custom specifications (adopted from European centers) were mandatory. Metalware was able to accommodate the non-standard European shelving specifications, provide the right storage solution, delivery and installation that exceeded the customers expectations. Metalware accessories included:

- Overhead safety gates
- Handrails
- Staircases



Give us the information, and we'll provide the solutions

Large grid area for drawing or notes.

What company/industry is the client in for this project?

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What is the size of the area in which you would like shelving?

• Length, width and height

• Do specific areas need to be open for doorways, aisles, etc?

 If yes, what is the aisle width/length requirement?

• Are there any obstructions in the area? (I.e. columns, HVAC, sprinklers, etc.)

• Are the floors level throughout the space?

 If no, please indicate all variances

• Does a drawing of this space exist?

 If yes, please attach

 A detailed hand drawing can also be included

Do you want to access the shelves from both sides of the unit?

Do you want a closed or open unit?

Do you need wood, steel or wire mesh shelving?

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What size shelving do you need?

• Depth, width and height

How many shelves do you need?

What weight capacity do you need each shelf to have?

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What types of products will be stored on the shelves?

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• Do they require specific shelf spacing?

• Please provide weight & dimensions of products

Do you need additional accessories?

• If yes, please specify (i.e. bin fronts, separators, drawers, base plates, etc.)

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Will you potentially have the need to expand your shelving to a multi-tier or high rise system?

If yes:

• How many additional levels?

• Will it be planned initially, or implemented in the future?

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• How many staircases do you want?

• What type of flooring do you want? (OSP- open steel planking, bar grating, Resindek)

Please provide any additional information relevant to the installation

• Timing

• Unloading restrictions

• Other

Do you require Metalware to organize the freight?

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