



SOLUTIONS

CATALOG





“A KEY TENENT OF THE  
BUSINESS IS ‘LOOKING AT  
EVERYBODY’S WAREHOUSE  
AS IF IT’S OUR OWN.’”

- Ryan Bartlett  
President/Founder

# UNITED MATERIAL HANDLING

Founded in 2011, United Material Handling, Inc. has successfully provided industry-leading warehouse solutions worldwide by bringing customers innovative products that optimize their warehouse operations. UMH is the leading manufacturer for Pallet Rack, Push Back, Carton Flow, Pallet Flow, Facility Design, Engineering Services, Permits, Code Compliance, and much more. UMH was established on the mission to become a key leader in the material handling industry through the commitment to excellent customer



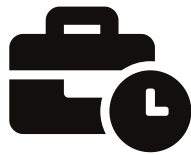
service and quality products that exceed client's expectations by defining new ways to innovate and increase operational efficiencies. With over 35 million in sales in 2020 and locations in California, Toronto, Canada, and Nanjing, China, UMH is more than a pallet racking company; it is now an intralogistics material handling company.

**We look forward to helping you with your warehousing needs!**



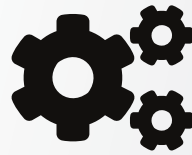
### Teamwork

Our success is attributed to our team working with complementary skills who are committed to a common vision, goals, and approach.



### Integrity

We are committed to excellence through superior work ethic and transparency.



### Innovation

We are actively developing new products and solutions to increase efficiency for our customers.



### Accountability

We take ownership of our actions to distinguish professional character.

## OUR MISSION

**Our mission** is to become a key leader in the material handling industry through our commitment of excellent customer service and quality products that exceed our client's expectations by defining new ways to innovate and increase operational efficiencies.

## PALLET RACKS

Pallet racking, also known as selective racking, can be manufactured in both roll-form and structural steel, to meet the user's application requirements. Selectivity is the primary advantage of this rack type, allowing access to any stored pallet loads; thus promoting good inventory rotation practices, and efficient picking from multiple forklift types. It's also among the most cost effective pallet storage systems available.



- Cost-effective.
- Access a large range of stock-keeping units (SKU's).
- No special forklift requirements.

## CARTON FLOW

Carton flow is a wheel-surface, shelving system that can be free-standing or incorporated into a pallet rack or pick module storage system. It is popular for its self-replenishment feature, as cartons advance down the pitched shelving wheel bed, delivering product to the pick face end of each shelf lane. It promotes 'first-in first-out' (FIFO) stock rotation, by its loading/picking ends and sloped-shelf design.



- Significantly improves picking rates.
- Excellent for both 'full case' and 'broken case' picking.
- Customizable storage lane widths.
- Optional features include charge-end impact zones, pick-end tilt trays, and pick-to-light systems.

## CANTILEVER RACKS

This type of racking system is excellent for large, bulky, long or oddly-shaped materials such as pipe, bar, round and square tubing, steel angle, lumber, poles, steel plate, wood, sheet steel, structural steel, etc. It offers an efficient way to organize and store bulk items. These racks increase space utilization. Available as either single-sided or double-sided, and in a variety of capacities and sizes to fit your specific storage requirements.



- Excellent for storing items of non-uniform size and length.
- It offers greater storage capacity and efficiency in storing longer items.
- Frees up valuable floor space by repositioning products off the ground and onto racks.
- Protects and helps prevent damage to longer items.
- It can be equipped with deck supports and wood for flat surface storage of furniture or large case goods.

## PICK MODULES

Pick Module systems are often customized for each facility because storage and picking requirements can differ greatly between warehouses. Configure to order (CTO).

These multi-level racking structures typically include conveyors that move products from the picking areas to the shipping areas. Replenishment of product within the pick module is done from rear aisles, or directly from a lift truck.



Well adapted for large distribution centers, they are constructed from basic pallet racking components. Sub-components consist of carton flow, pallet flow, various forms of shelving and conveyor, as well as flooring, handrails, stairs, kickplates, lighting, and fire sprinkler protection.



## PUSH-BACK RACKS

Push-back racking combines the features and benefits of other pallet storage rack types. It uses the same aisle as selective rack. It's self-replenishing like pallet flow and carton flow; except that its stock rotation is the 'last in, first out' (LIFO). When integrated into a single selective rack layout, the overall space utilization of the warehouse can be improved significantly. It has one of the best ROI of any pallet storage rack type.



- Low profile carts are secured to front-to-back rails lessening the probability of dislodgement.
- We can design a push-back rack system to fit into virtually any space in your warehouse.
- Push-back racking is designed with no pallet overhang.
- No special forklift equipment is required.
- Low maintenance. Easy to clean.



## DRIVE-IN RACKS

Drive-in racking provides high-density pallet storage and is typically used where bulk stack storage is impractical or limiting. Like bulk storage, drive-in racking creates a 'last in, first out' (LIFO) stock rotation. It adds the benefits of storing higher without the potential damage that can exist when pallet loads are placed directly on top of each other.



- Moderate cost, high-density pallet storage.
- Uses common entry/exit into each bay of rack.
- Designed to store numerous pallets of the same SKU.
- Creates separation of pallet loads set in a bulk array, reducing damage.
- Increases storage height capability as compared to bulk stack storage.



## MEZZANIES/WORK PLATFORMS

Create more useable space for a variety of applications including enhanced storage capacity, value-added services (VAS) or remote offices. Mezzanines provide a quick and cost-effective way to create new space. Mezzanines can be supplied with a concrete floor or tongue and groove decking depending upon the loading requirements. Also used to support conveyors, mezzanines allow for improved 'cube utilization' of a tall warehouse facility. Similar to pick modules these structures use a wide-span support column system allowing for greater contiguous floor space.



## SHELVING

Organizing your warehouse, or other storage space should be simple and convenient. With industrial steel shelving and boltless shelving, users get the convenience and cost-effectiveness coupled with strength. High gauge steel will keep your metal shelving system sturdy, even under the weight of heavy loads. Shelving can also be found in storage systems for piece pick applications.



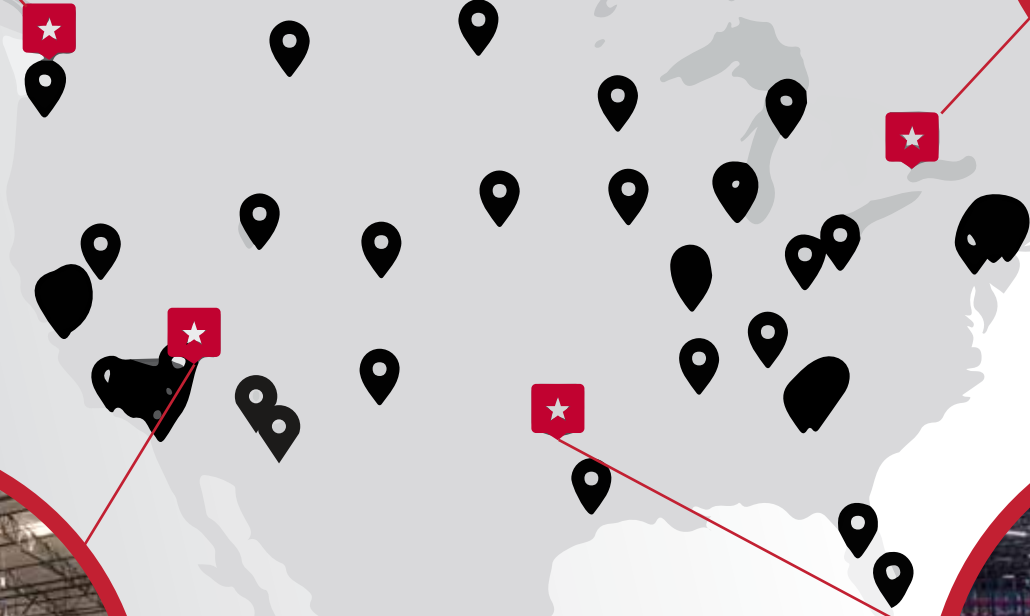
# KEY PROJECTS ACROSS NORTH AMERICA



Des Moines, WA



Toronto, ONT, Canada



Phoenix, AZ



Lewisville, TX

\* Key projects for the year of 2020



### AUTOMATED GUIDED VEHICLES

AGV

AGVs are used to transport materials that is traditionally served by fork lift trucks, conveyors or manual cart transport. AGV is more efficient in transporting high volumes and little or no human decision making is required to perform the movement



### PALLET SHUTTLE

Automated or Semi-Automated shuttles retrieve and deliver the loads from and to a high density storage system. Ideal for high volume warehouses considering increases storage capacity and reduce operating time.



### AUTOMATED STORAGE AND RETRIEVAL SYSTEMS

(AS/RS) Stacker Cranes

The stacker cranes travel through the narrow aisles, providing access to each pallet position. The stacker cranes are suited for heavy load pallets and is able to access up to 130 feet.



### RACK SUPPORTED BUILDING

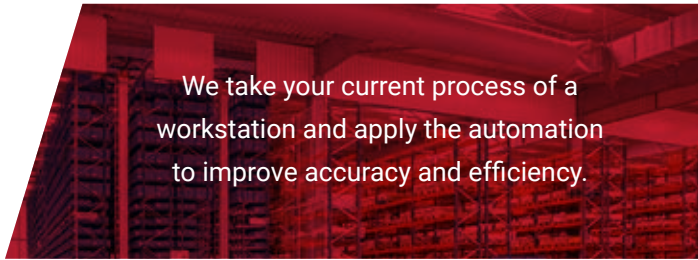
AS/RS

The pallet rack system products the basic structural support for the building's roof and wall. When a new building is required, rack supported AS/RS system is the most economical storage solution.



### CUSTOM ROBOTIC ENGINEERING

From process-driven robotic systems integration to turnkey specialized machine system. Our robotic team provide you with the right automated solutions for your application.



We take your current process of a workstation and apply the automation to improve accuracy and efficiency.

# Automation Services









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