

# MEZZANINES DECKING GATES & RAILINGS

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Mezzanines create useable, workable space in your warehouse, parts department, office or retail location. Customize your platforms with tailor made decking choices, stairs, landings, access gates and railings.

# MEZZANINES

# Moving Up is Better than Moving Out!

Will your mezzanine be used for production space?

*Do you want to integrate it with your existing conveyor system?*

Looking for extra storage space?

*Need more room for office space?*

We can help you use that unused overhead space to operate more efficiently and profitably. We offer a range of industrial mezzanines including single and multi-level units.

Structural mezzanines are your best solution to utilize existing overhead space.

## SAVINGS BENEFITS

Adding a mezzanine to your facility can double or triple your existing space at a fraction of the cost of new construction or leasing additional space.

- Improve inventory management
- Save energy costs
- Qualify for accelerated tax depreciation (Mezzanines have a 7 year depreciation benefit)
- Build to fit YOUR exact needs
- Mezzanines are expandable
- Save on insurance premiums
- Save on additional property taxes
- Streamline company logistics and communications
- Eliminate offsite leases



# MEZZANINE APPLICATIONS

## WAREHOUSING



Production lines and shipping/receiving areas require ample space to run efficiently and smoothly. As your business expands, installation of a multi-purpose mezzanine may be an effective and budget friendly alternative to new construction, allowing you to stay in your current facility for years to come!

Modular mezzanine systems allow for growth and expansion with easy adaptability. Components can be disassembled, relocated, and expanded at any time, allowing you flexibility and adapting to the changing needs of your business.

## PARTS & INVENTORY

Increased storage density and order picking efficiency are key features of mezzanine systems. Typical layouts allow for improved ergonomics, pick speed, and inventory controls.

Mezzanines can be configured with incline conveyors to assist in the transport of parts and bins from level to level; Another layout could showcase fast-moving items arranged on the ground level while lower demand items are stored on the upper level according to priority.

With your increased square footage, in-plant traffic circulation and item accessibility will be significantly enhanced.



## DISTRIBUTION

The addition of a mezzanine can double the available workspace in a distribution center, allowing for stocking and shipping of inventory quickly and efficiently.

Utilizing vertical space within a warehouse will give you the extra square footage needed for merchandise and picking processes.

An addition of a conveyor and sortation system will allow inventory to flow uninterrupted, allow for faster order fulfillment and raise productivity levels.

## EQUIPMENT PLATFORM



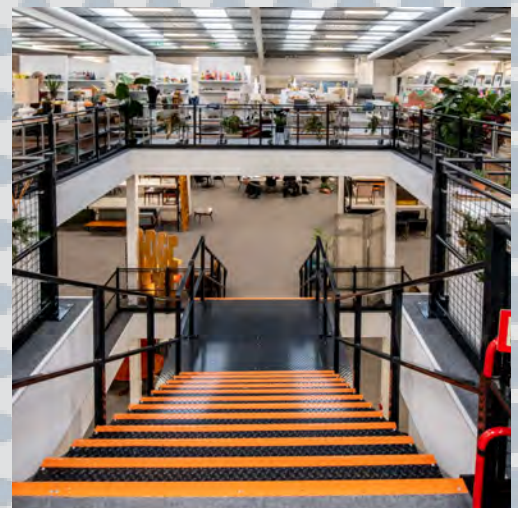
If your facility doesn't have the space to hold all the necessary equipment on the ground floor, or if it necessitates that the area be kept free of obstructions, an equipment platform may offer a solution.

Equipment platforms are a structurally reliable option that keeps equipment safe, accessible and out of the way of general operations.

## OFFICE SPACE

Creating a fully integrated in-plant office above your production floor allows for continued activity beneath the mezzanine structure while providing a much needed operations hub in close proximity to personnel and staff.

In-plant mezzanines can be utilized as office space, break rooms, conference areas or even a first aid or clean room area.



## INDUSTRIAL CATWALKS



Provide safe access and direct traffic around equipment, conveyors and other obstructions with a catwalk mezzanine.

Complex industrial and manufacturing facilities require clearly designated walkways to ensure safe and efficient operations.

Mezzanine catwalks provide a space saving walkways through major process areas and allow access to upper level racks, shelving and storage spaces.



## VERTICAL HARVESTING/FARMING

Thomas Conveyor works with indoor farmers trying to maximize their profit potential by supplying versatile vertical grow systems that help to increase crop production capacity, reduce energy inefficiencies and improve harvesting capabilities.

Utilizing pallet rack systems and mezzanine framing, we can increase production capacities by eliminating unnecessary aisles and using wasted overhead space.

By helping farms maximize their yields per square foot, we help empower farmers to supply sustainably grown foods and crops to urban and rural areas around the USA.



## CONVEYOR SUPPORTS

Continual movement can cause issues on a structure, and when high speed conveyors move packages endlessly day after day, you need a support system that can withstand the duress.

Thomas Conveyor understands product loads and the other factors needed when designing mezzanines and work platforms for conveyor systems.

All openings and column placements will be designed to perform seamlessly with your existing conveyor system, allowing you to move product between levels ergonomically, more efficiently, and faster than ever.

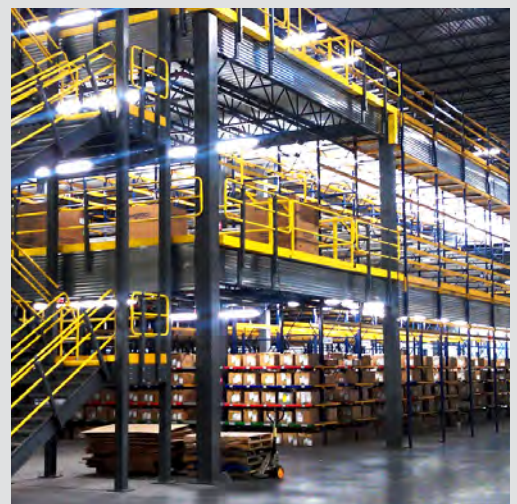


## MULTI-LEVEL MEZZANINES

Installation of a multi-level mezzanine allows for maximum usage of square footage and cubic space.

Unlike new construction, which is considered a building modification, a mezzanine is capital equipment. This saves on property tax increases that new construction incurs. The equipment classification also offers a depreciated valuation over seven years opposed to thirty one (contact your CPA for details.)

You benefit by gaining space without the high costs associated with expansion or moving to a new facility.



# GRANDEUR GARAGE



GarageTown facilities are an exciting, luxury storage opportunity for auto and boat enthusiasts.

Showcase storage units are the ideal solution to keep high end cars and recreational vehicles in flawless condition. Owners can upgrade their space with a mezzanine level, providing a leisure space to share with fellow aficionados, business associates, friends and family.

Mezzanines can be customized to the owner's preferences, making their garage a retreat to be shared and admired.

## PUBLIC/COMMUNITY AREA

Mezzanines can increase usable space in public use areas such as libraries, park districts, nature centers, art galleries, etc.

Upper decks can be designated for study areas, makery applications, media nooks, or conference and office areas.



## RETAIL RECONFIGURATION

Avoid clutter and increase profits by adding a mezzanine level to your existing retail space. With your sales floor instantly doubled, displayed merchandise is showcased and you'll have the opportunity to offer a larger selection of product to your clients.

Mezzanines can also be used to increase sales floor square footage, back store inventory and even office or consultation space.



# EXHIBITION PLATFORMS

Mezzanines and platforms are commonly found at trade shows, museum exhibitions, sporting events, and television and movie productions.

Their modular design makes them a very cost-effective way to provide space and considerable impact at your next trade show exhibit.

Whether you need elevated display space for centuries-old historical artifacts or a platform for viewing the latest in 21st century technologies, we can create a custom mezzanine design that showcases your personal aesthetic.



# ACTIVITY/FUN ZONES

Kids entertainment centers call for dynamic spaces, filled with energetic colors, non-stop action and endless excitement.

Thomas Conveyor mezzanines offer the versatility and adaptability to make your activity center the "go to spot" in town. Our designers will create SAFE, multi-level structures that can showcase particular activities, games or play stations.

Extra wide staircases, easy access ramps and wire mesh handrails create a perfect space for safe, healthy play.

# SPORTS & FITNESS FACILITIES

Don't let a lack of space prohibit you from offering your clients the amenities and equipment you can offer!

A mezzanine can easily double the available space in your fitness or sports center. Heavy duty structural components are designed to support cardio and weight lifting machinery, treadmills, and free weight areas.

Whether you are looking for an elevated running track, batting cages, or a rock climbing wall, our automation engineers will work with you to provide designs that complement your existing facility and work within your budget.



## RESTAURANTS & BARS



When it comes to restaurants, maximizing your seating capacity is synonymous with potential revenue. However, code regulations must still be met, and cramped seating can make for unhappy dining.

Installation of a Thomas Conveyor mezzanine can provide valuable floor space and table seating in your dining room, allow a tiered viewing area for live entertainment or present a showcase/storage display for beers, ales or wine.

## SELF STORAGE MEZZANINES

Mezzanines can transform an existing building into a self-storage facility by adding a second or even third floor.

Freestanding mezzanines can grow and modify with changing needs as units can be removed or consolidated. This is a significant advantage over static, shelf-supported storage units.



## STAINLESS STEEL MEZZANINES FOR FOOD SERVICE, SPECIALTY USE



Gain access to work areas with a food processing work platform. Thomas Conveyor & Equipment can work with you to design a stainless steel mezzanine that meets your specific sanitation requirements.

The decking of the mezzanine and stairway can be designed with stainless steel diamond plate. We can even design a hybrid mezzanine solution with stainless steel components, mixed with carbon steel painted and/or aluminum.





# MEZZANINE TYPES

## FREESTANDING MEZZANINES

Free standing mezzanines, also known as structural, steel, or wide span mezzanines are the most flexible type of mezzanine. They are used in a wide variety of applications and offer flexibility in both set-up and restructuring. Except for a few anchors, they require very few changes to the building construction to install and are portable and flexible to fit any space.

Free standing mezzanines are supported by structural columns and beams, allowing for maximum usable space above and below the mezzanine. While freestanding mezzanines are a separate structure from the building, they create support for multi-level mezzanines above them. Their wide span allows traffic flow under the structure and is ideal for parts and product storage, and conveyor support. Column spacing and spans are customized based on the customers' needs and applications.

Freestanding mezzanines are considered capital equipment, allowing for depreciation over 7 years instead of 30.



## RACK SUPPORTED MEZZANINES

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Rack supported platforms create mezzanine levels of usable space above or between pallet racks. This system allows for multiple locations to load and unload pallets simultaneously within the system. Catwalks can be installed between the racks for easy egress.

## SHELF SUPPORTED MEZZANINES

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Shelving supported mezzanine systems are an ideal option for expanding storage of smaller items above the shelving. The shelving serves as a base for the mezzanine and is an economical way to expand existing space.

There are two different types of shelving supported mezzanines; “Deck Over” style, where the flooring on the second level is laid on top of the shelving on the first level to create a solid floor; and “Catwalk” style where the shelving on the first and second floors mirror each other and are one solid unit. Flooring is suspended or extended into the aisleways. Decking is typically made out of bar grating or OSB-decking with a resin deck on top.

Why use shelving as a mezzanine structure? Cost savings. The only drawback of shelving supported mezzanines is that you cannot change the layout of the bottom floor once it is complete.








# FRAMING OPTIONS

Mezzanine framing can be customized for a wide range of applications from small, light-duty work platforms to large-span, heavy-duty industrial mezzanines.

There are many mezzanine framing specifications to consider when adding a mezzanine to your facility. Familiarity with safety regulations, codes, and industry standards is a necessity.

Working with an experienced supplier like Thomas Conveyor & Equipment, who has a design team with extensive resources and a proven track record of successful installations, will make all the difference in your project's execution.

## We'll support you, every step of the way!

	 <b>Bolted C Section</b>	 <b>Beam &amp; C Section</b>	 <b>Beam &amp; Beam</b>	 <b>Beam &amp; Bar Joist</b>	 <b>Truss Girder &amp; Bar Joist</b>
Size	Small - Medium	Small - Medium	Small - Medium	Medium- Large	Large
Load Capacity	Up to 200 PSF	Up to 200 PSF	Not Limited	Up to 300 PSF	Up to 200 PSF
Square Footage	Less than 2000	Any	Less Than 2000	2000 and Larger	2000 and Larger
Span Size	20 Ft. (Using 12" C-Section. If full 20 Ft. span is utilized in one direction, the other is limited to 10 Ft. (optimal bay size is 11 ft x 16 ft.)	20 Ft. (Using 12" C-Section.	Not Limited	Not Limited	Not Limited
Advantages	<ul style="list-style-type: none"> <li>• Cost Effective</li> <li>• Cosmetically Appealing</li> <li>• Short Lead Time</li> </ul>	<ul style="list-style-type: none"> <li>• Relatively Cost Effective</li> <li>• Flexibility in Column Locations</li> <li>• Short Lead Time</li> </ul>	<ul style="list-style-type: none"> <li>• Low Composite Heights</li> <li>• Nearly Unlimited Load Capacity</li> <li>• Short Lead Time</li> </ul>	<ul style="list-style-type: none"> <li>• Wide Spans</li> <li>• Open area which easily allows conduit or pipes to pass through</li> </ul>	<ul style="list-style-type: none"> <li>• Wide Spans</li> <li>• Open area which easily allows conduit or pipes to pass through</li> </ul>
Limitations	Column Spacing	Spans over 20 Ft	Cost Factor	Composite Height	Composite Height



# DECKING OPTIONS

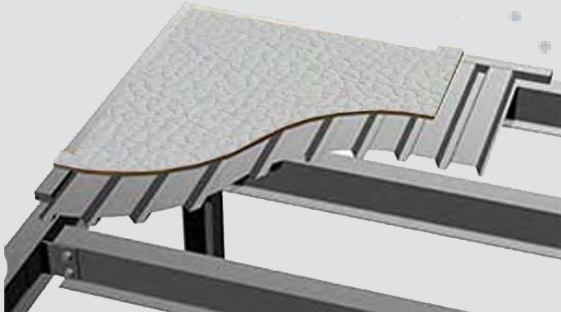
## STANDARD OSB (ORIENTED STRAND BOARD) OVER 20 GAUGE STEEL



Our standard decking consists of one layer of 3/4" OSB installed over 20 gauge x 1-1/2" deep, corrugated steel deck. The roof deck top is unfinished gray; a bright white paint is applied to the underside of the roof deck to enhance light reflectivity. It is available with an unfinished or finished coat; It can also be painted or coated with moisture-resistant urethane.

This standard type decking provides good resistance to foot traffic and can handle wheel loads up to 300 lbs. This is a durable selection for general storage and office applications. It is the most economical deck option available.

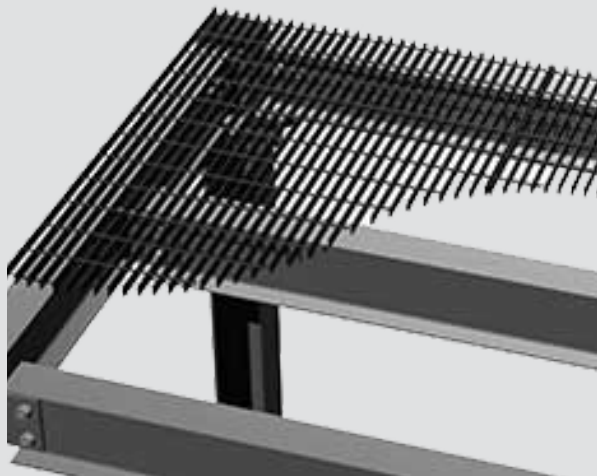
## HEAVY DUTY RESIN DECK OVER 20 GAUGE STEEL



Our resin deck offers a heavy duty decking alternative that offers fast installation with self-spacing tongue and groove fittings and higher weight capacities of 3000 lb. pallet jack ratings.

Resin Deck comes in 5 finishes: Standard Gray, Gray ESD (Electrostatic Dissipative Finish), Titanium Clear SR (for exception scratch and abrasion resistance), Unfinished and Moisture Resistant Substrate. Resin deck is available in two patterns: Moroccan and Quadriple.

## BAR GRATING



Bar grating is a commonly used decking for mezzanines, platforms, catwalks and conveyor systems. The bar grating is 1" x 1/8" painted, steel bar grating (NAAMM.)

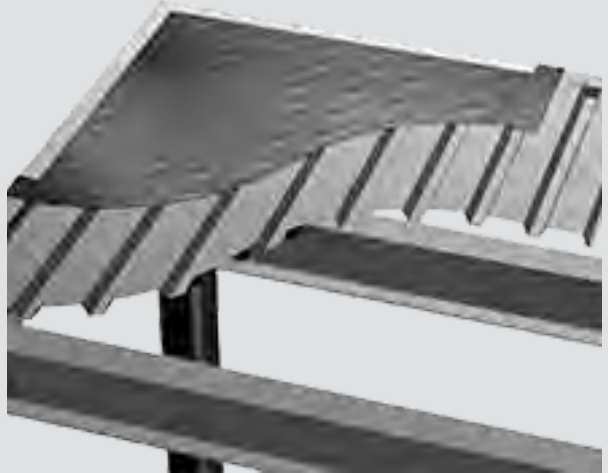
Bar grating allows for air movement, light, and water (from overhead sprinklers) to pass through the deck surface. This material should not be used for wheeled carts or pallet jack applications.



## 20 GAUGE STEEL ROOF DECK AND FLOOR PLATE

This heavy duty mezzanine decking system is designed for use on projects that require non-combustible materials. A 12 ga. unpainted floor plate is fastened directly to a 20 ga. painted steel roof deck.

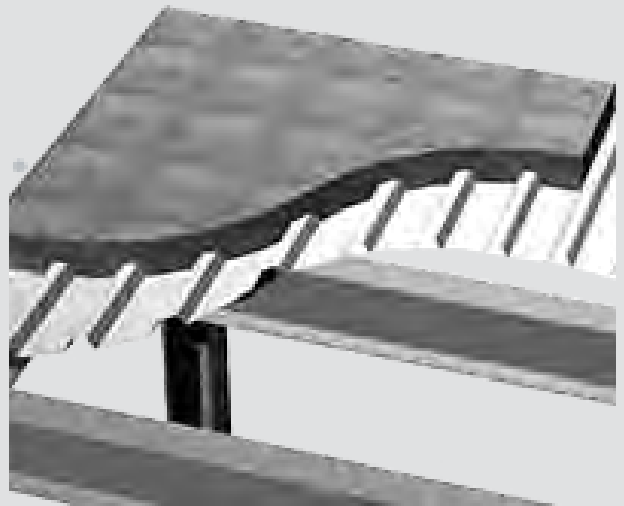
Diamond plate or checked plate steel floor plates offer an outstanding combination of durability and safety. The diamond or checkered pattern makes these floor plates slip-resistant so they are safe for foot travel. The top surface of the tread plate can be unfinished or painted. These plates can withstand constant travel and use by forklifts or other machinery without causing floor damage.



## CONCRETE ON 20 GAUGE STEEL ROOF DECKING

With concrete decking, you will experience the strongest and most durable mezzanine flooring available. When this type of deck is used, high point loading and capacity is not a problem. Concrete density dramatically reduces noise transmission through the floor.

Concrete and steel decking is primarily for fire rating and/or chemical applications. A 20 ga. steel deck is provided with an edge trim necessary to allow the onsite pour of a concrete floor. Please note, the mezzanine cannot be deconstructed with a concrete pour.



## SPECIALTY PANELS & 20 GAUGE STEEL ROOF DECKING

Specialty panels can be fastened directly to a 20 gauge painted steel roof deck. These panels are used where non-skid or harder surface properties are required.

The roof deck top is unfinished gray; a bright white paint is applied to the underside of the roof deck to enhance light reflectivity and reduce the amount of lighting needed to illuminate the workspace under the mezzanine.

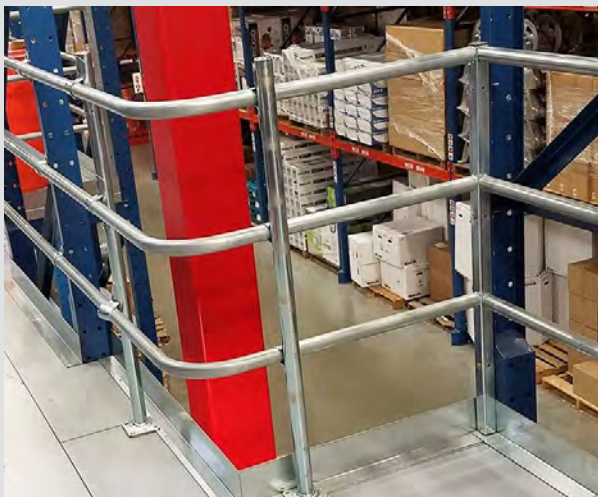
## SPECIALTY GRATING

Specialty grating, such as fiberglass or plastic, is available.

These can be used when chemical or non-conductivity properties are needed.



# MEZZANINE RAILINGS & GATES



## MODULAR RAILINGS

Handrails are easy to install and clearly define pedestrian walkways, loading docks, production areas, assembly lines, and more. Steel safety handrails are also an ideal solution for in-plant offices, work platforms, balconies, stairs, mezzanines, catwalks, and equipment crossovers.

Hand rails help to secure equipment onsite and provide safety and security for workers. At Thomas Conveyor & Equipment we pride ourselves on developing a product that is compliant with OSHA, IBC, ANSI, and national and local building codes. Hand rails come in a variety of configurations including 2 rail, 3 rail, wire mesh and kickplate options.

For those rail systems used on a second level or mezzanine, a 4" high kick plate is added to the handrail system to keep small items from falling off the mezzanine deck. Safety gates can also be added to control access to secure areas. When used on a mezzanine, access gates enable you to load product at mezzanine levels from the ground floor.

## JIFFYRAIL™ RAILINGS

Jiffyrail™ assembles onsite in a Jiffy! Jiffyrail railings are zinc plated to resist corrosion and wear and tear.

Surface mounted and rack mounted configurations are available; no field welding is required. Jiffyrail railings are supplied in prefabricated form for the lowest installation cost. Layouts are custom designed to fit your floorplan.



# SAFETY GATES

Safety gates are developed with protection in mind. Safe access to elevated platforms, security from open and exposed ledges and clear, open access to drop zones are all benefits of safety gating. Access gates allow forklifts and other equipment effective and secure handling of your materials while providing a one-way flow solution to pass through an area without leaving an access point open.



**NETGATE PICK MODULE  
SAFETY GATE**



**DROP ZONE  
SAFETY GATE**



**POWERED OVERHEAD  
SAFETY GATE**



**OVERHEAD  
SAFETY GATE**



**DOUBLE DROP  
SAFETY GATE**



**PIVOT  
SAFETY GATE**



**EDGE ALERT  
OPEN GATE ALARM**



**ROLLING SWING  
SAFETY GATE**



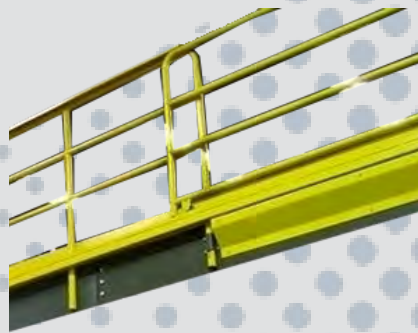
**SWING  
SAFETY GATE**



**TILT  
SAFETY GATE**



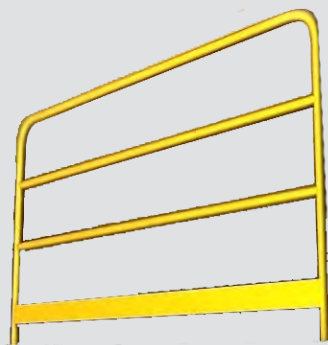
**ROLLING SLIDE  
SAFETY GATE**



**SLIDE  
SAFETY GATE**



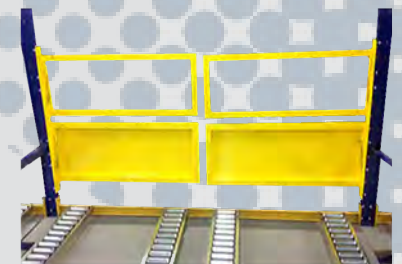
**VERTICAL PIVOT  
SAFETY GATE**



**LIFT  
SAFETY GATE**



**FINGER  
SAFETY GATE**



**IMPACT  
SAFETY GATE**



# THOMAS CONVEYOR & EQUIPMENT

INNOVATIVE MATERIAL HANDLING SYSTEMS & SOLUTIONS



## CONVEYOR SYSTEMS

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Belt Conveying  
Roller Conveyors  
Pallet Conveyors  
Overhead/Monorail Conveyors

## PNEUMATIC CONVEYING

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## PACKAGING EQUIPMENT

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## ERGONOMIC EQUIPMENT

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## MEZZANINES, LIFTS, VRCS, GUARDS

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## PALLETIZING EQUIPMENT

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## PALLET HANDLING SYSTEMS



**Thomas**  
**C**onveyor &  
**E**quipment Co.



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SALES ENGINEER

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