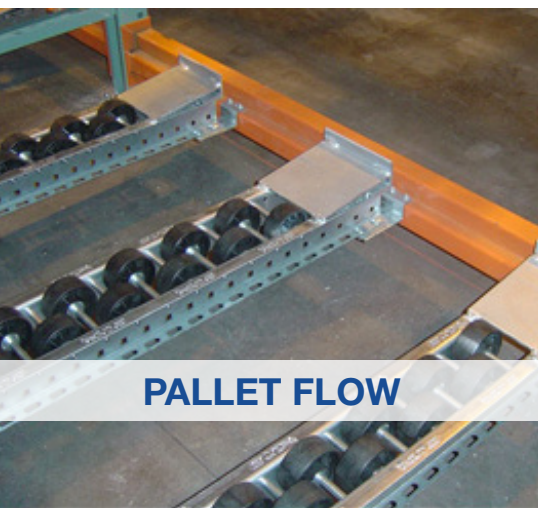




MALLARD
MANUFACTURING
YOUR GRAVITY FLOW SPECIALISTS



HARNESS THE POWER OF GRAVITY FLOW STORAGE



PALLET FLOW



CARTON FLOW



GRAVITY CONVEYOR

From simple carton flow shelving to complex deep-lane pallet flow & pick modules, we'll design your ideal custom solution.

GRAVITY FLOW STORAGE SOLUTIONS



Maximize Space & Productivity with the Power of Gravity

Improving warehouse, distribution, and manufacturing efficiency for over 60 years.

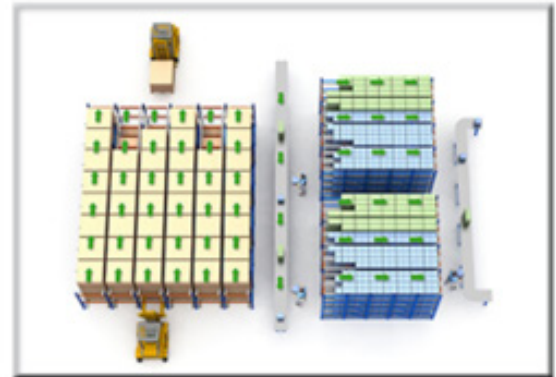
Gravity flow solutions are durable, easy to use, low maintenance, and do not require an external power source. Free up floor space and maximize your cube space with high-density gravity flow rack.

Conventional Static Storage



← VS. →

Mallard High Density Gravity Flow



Gravity Flow Advantages

- High-density SKU consolidation
- Maximize cube space
- Individual SKU lanes
 - Accurate load & pick
 - Faster load & pick
- Saves time, labor & equipment costs
- Automation compatible

Gravity Flow Solutions

- Ecommerce fulfillment
- Intake & dock staging
- Item picking & packing
- Case picking
- Pallet building
- Manufacturing & assembly
- Raw materials storage

PALLET FLOW RACK



Increase Capacity & Output with Dynamic, High-Density Pallet Storage

Customize pallet storage and picking activities to maximize space and streamline labor, equipment, and utility costs.

Pallet Flow Applications:

- High-density pallet storage FIFO & LIFO
- Case picking
- Layer picking
- Assembly lines
- Raw materials supply
- Pallet intake & dock staging
- Empty pallet returns

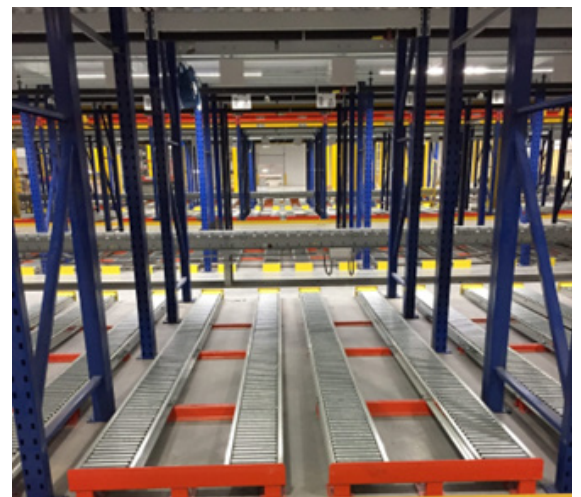
Maximize your space and ensure efficient stock rotation with pallet flow rack. Design your gravity-fed system with separate load and pick aisles for FIFO (first-in/first-out) inventory rotation or a single aisle push-back LIFO (last-in/first-out) rotation. The pitched lane design flows pallets automatically for continuous workflow with minimal labor.

Mallard Pallet Flow Products

- Magnum wheel pallet flow
- IE wheel pallet flow
- Full-width roller pallet flow
- Split-roller pallet flow
- Steel skate wheel pallet flow
- Push-back flow & push-back cart systems

Choose the pallet flow product that will perform optimally with your pallet type and application with lane depths from 2- to 10+. All our products are durable in any warehouse climate, and Magnum wheel is rated to -40 °F. Magnum's rugged design supports twice the per wheel capacity vs. industry equivalents and is backed by a ***Lifetime Damage Warranty- an industry EXCLUSIVE!***

Call to schedule a pallet flow test to confirm your system design before finalizing your order!



PALLET FLOW ACCESSORIES & ENHANCEMENTS



Equip Your Team with the Best Tools to Ensure Safety & Productivity

Every pallet flow design is unique to your inventory, pallet specs, and application needs. Our extensive selection of accessory products and enhancements, such as speed controllers and pallet separators, make the difference and ensure optimal performance and safety.

Pallet Flow Accessories

- Entry guides - more accurate pallet positioning
- Ramp stops - safely stop and secure pallets
- Mounting brackets - floor mounted and secure rack mounts custom-fit to your needs

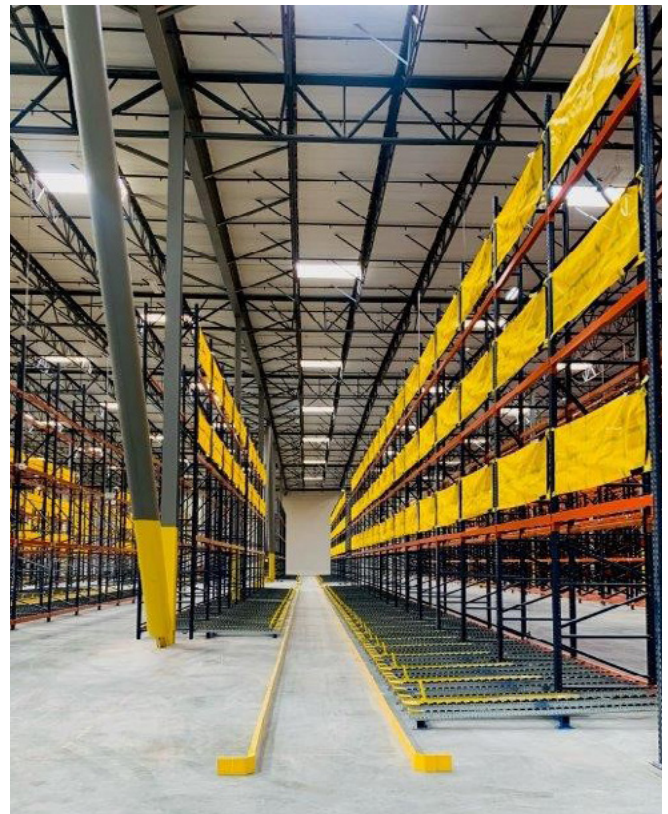
Pallet Flow Speed Controllers

- Drop-in speed controllers
- Direct mount speed controllers
- FIBA - field installed brake assembly
- Ultra-Grip full roller - rubber coated roller
- 2.5" diameter drum roller

Pallet Flow Pallet Separators

Isolate pick aisle pallets & eliminate back pressure of rear pallets.

- Case-pick separator
- Flex separator
- Forklift separator
- Layer pick separator
- Ergo cell pneumatic pallet separator with optional lift table
- Dual pallet separator
- Empty pallet return



The Mallard team will help configure your system to function optimally and ensure the safety of your workers. Contact your Mallard representative for design support.

CARTON FLOW RACK



We Tailor OUR Products to YOUR Needs – Not the Other Way Around

Improve pick rates and accuracy with carton flow rack. Separate load and pick aisles with a pitched lane design promote concurrent functions and automatic stock replenishment. Single SKU lanes support accuracy and enable workers to quickly identify low stock inventory for efficient restocking.

Applications:

- Ecommerce fulfillment
- Full carton picking
- Broken case picking
- Kitting
- Manufacturing parts assembly
- Finished goods packaging

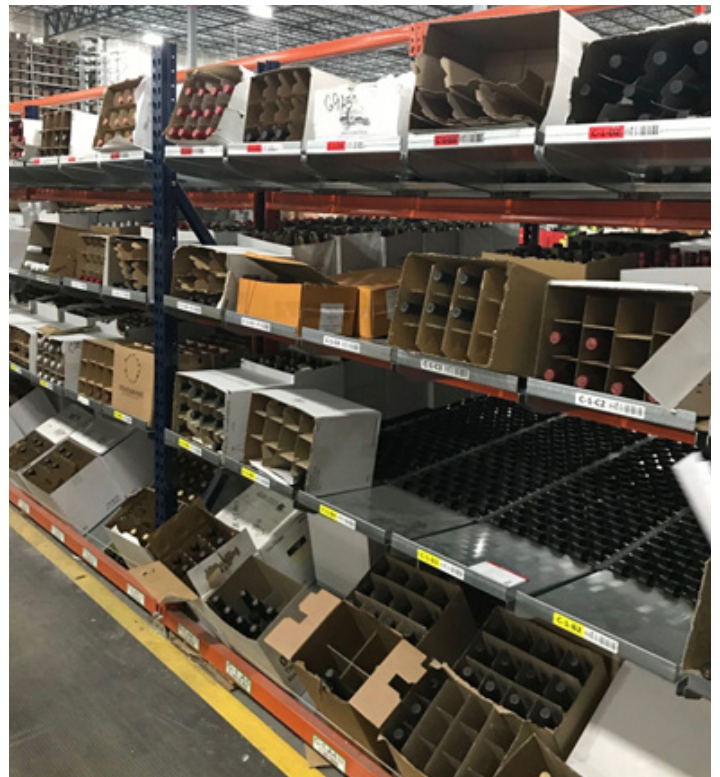
Choose your carton flow solution based on inventory style and size.

Full Wheel Bed Products for Varying-Size Inventory

- Dyna-Flo
- Dyna-Flo HD (heavy-duty)
- Dyna-Deck replacement carton flow

Products for Consistent-Size Inventory

- Cart-Trak rollers
- Econo-Flo - plastic wheels on steel axles
- Flanged wheel - steel or nylon flange



Boost productivity and enhance system longevity with customized accessories. Impact trays take the abuse so your wheels and rollers don't, tilt trays angle products for better sightlines, lane dividers and entry guides create a barrier for SKU lanes - customize your application to your needs. Ask for a test level to try before you buy!

GRAVITY CONVEYOR



Stretch Your Gravity Conveyor Dollar with Durable Mallard Products

Gravity conveyor is a cost-saver in helping you minimize labor and equipment costs while safely transporting inventory, orders, finished goods, and more.

Gravity Conveyor Applications:

- Inventory intake
- Picking & packing
- Assembly
- Shipping & receiving
- Order processing

Configure your gravity conveyor solution for light- to medium-weight boxes, cases, cartons, and totes. Equip your conveyor with safety products to protect your team and achieve cost-effective operations.

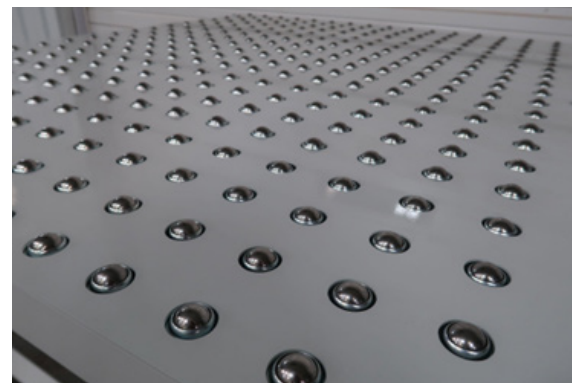
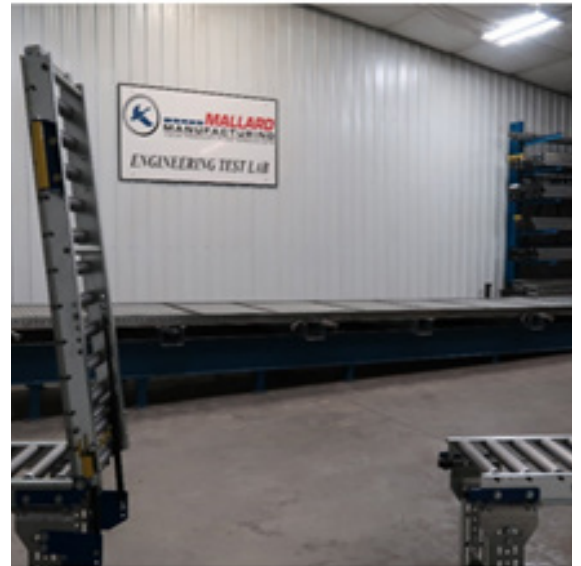
Gravity Conveyor Products:

- 1.9" Dia gravity conveyor
- 1-3/8" Dia gravity conveyor
- Steel skate wheel conveyor
- Ball transfer tables

Gravity Conveyor Accessories:

- Guard rails - solid, angle & adjustable
- Conveyor Stops - angle, roller, butt-end; manual or air-operated blade or roller
- Hydraulic lift gates

The shortest distance between warehouse operations and efficiency runs through gravity flow --Ask your Mallard representative for a customized conveyor solution for your facility.



PUSH-BACK CART SYSTEMS



Push-Back Reimagined -- Faster Installation, Lower Profile, Durable Design

Who better to reinvent push-back rack than the gravity flow experts at Mallard? Our push-back system relies on wheeled rails vs. carts with wheels. This creative design is up to 50% faster to install and lower profile delivering more storage capacity. No more individual wheel assembly, maintenance, and replacement costs. Our steel skate wheel rails arrive pre-assembled to drop into place.

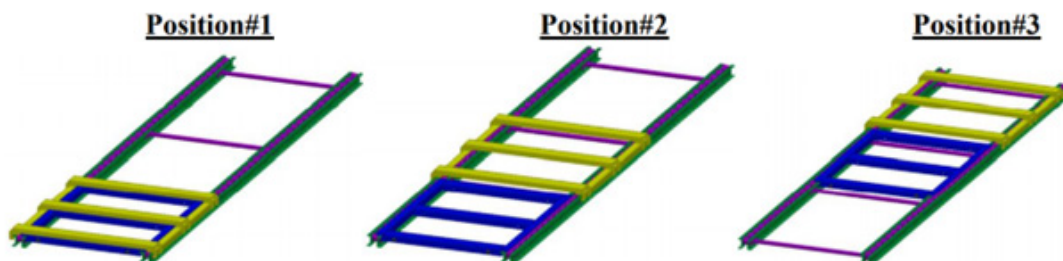
Mallard Push-Back Cart Features:

- 2- & 3-deep system designs
- Pre-assembled rails & carts
- Easily retrofits existing pallet rack
- Lower profile cart stack height
- Durable, damage-resistant design vs. traditional carts
- Factory-installed safety features

Your LIFO design supplies high-density storage with single-aisle access for pallet loading and unloading. The rails pitch down to the aisle, and the cart stack sits ready at the first position. The forklift operator places the first pallet on the top cart, then gently pushes it back to expose the carts underneath to load subsequent pallets. The last pallet sits on the rails. Carts flow forward automatically as pallets are extracted.

Push-Back Cart System Design Criteria:

- 2-Deep - 102" long rails
- 3-Deep - 150" long rails
- Pallet size - 40"w x 48"d, no overhang
- Slope - 3/8" per foot
- Carts: Top - Yellow, Second - Blue
- Safety features - factory-installed bumpers & flow angles



ENGINEERED SYSTEMS



Gravity Flow Solutions Applied to Unique Applications

There is one place to find all the experience and resources you need to harness the power of gravity and put it to work to solve your warehousing challenges --that's Mallard. Let us custom-design a system to meet your unique inventory and warehouse space parameters.

Engineered Gravity Flow Solutions

- Tire Flow Rack - consolidated tire bundle storage
- Layer Picking - robotic arm or clamp compatible
- Case Picking - ergonomic with or without lift table
- Pallet Jack Access Ramp - simplified dock staging
- Pallet Separators - safer, deep-lane designs
- Empty Pallet Return Lanes - more productive case pick
- Pick Modules - combined gravity flow systems



Your Mallard representative is available to answer product questions, and provide application ideas to solve your warehouse challenges. No one does gravity solutions like the Mallard team. Let us show you.