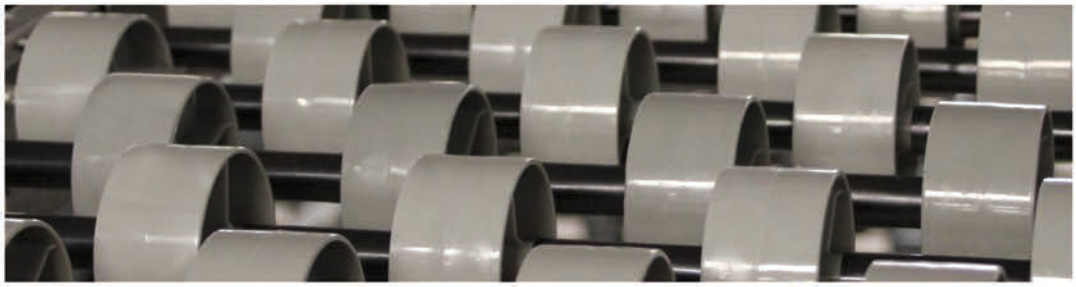
CONCENTRIC™
STORAGE SYSTEMS



CARTON FLOW

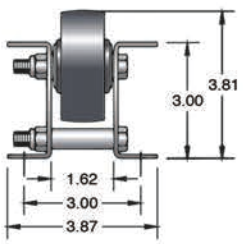
PALLET FLOW

PRODUCT CATALOG

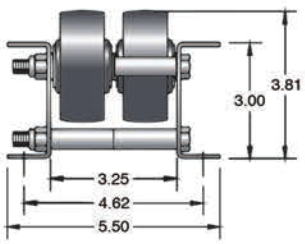
PALLET FLOW

CSS Pallet Flow Wheel Options

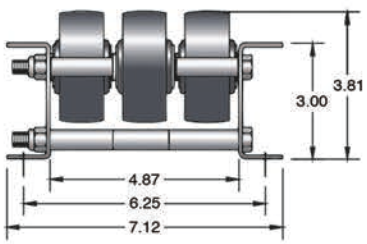
SINGLE PLASTIC WHEEL



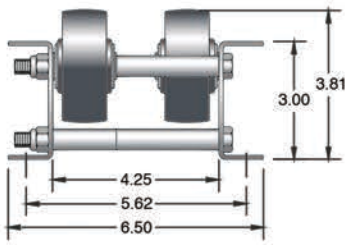
DOUBLE PLASTIC WHEEL



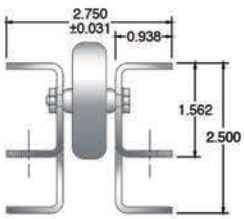
TRIPLE PLASTIC WHEEL



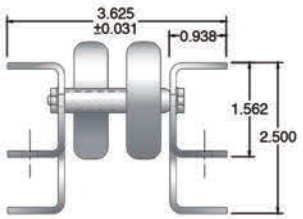
DOUBLE BRAKE WHEEL



SINGLE METAL SKATE WHEEL



DOUBLE METAL SKATE WHEEL



CSS PALLET FLOW

Optimize flow capabilities and provide efficient space utilization by eliminating unnecessary aisles

- Provides greater inventory control
- Automatic stock rotation
- Reduce labor and equipment costs
- Allow for future growth
- Increase storage space from 30% to 100%
- Limit product damage and spoilage
- Improve product turnaround time
- Increase overall productivity

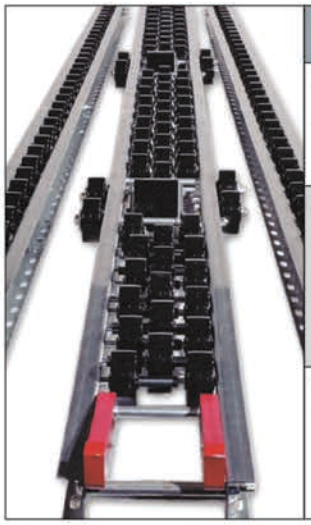
Plastic Wheels

Plastic wheels are manufactured from specially engineered resins for high-impact, high-strength and have been rigorously tested for maximum performance in your specific warehouse environment. Available with sealed bearings for cooler conditions.

Metal Wheels

Zinc-plated metal wheels for lighter load picking applications are available with in-line or staggered configurations.

Pallet Flow Track Comparison



Description	Application	Load Capacity	Characteristics
Plastic Wheel Track *Moderate to heavy pallet flow*	For industrial production and distribution pallet storage environments.	500 to 5,000 lbs.	Wheel patterns can be designed inline or staggered on 2", 3" or 4" centers. Bearingless and bearing 2.87" diameter plastic wheels.
Brake Track *Moderate to heavy pallet flow*	Used in moderate to heavy pallet flow applications for industrial production and distribution pallet storage environments.	1,000 to 5,000 lbs.	Patented cantilever-designed for superior pallet support, track allows for variety of pallets to flow, including GMA, Plastic, Euro, Slave and boxes. Wheel pattern can be designed inline or staggered on 2", 3" or 4" center configurations. Can be used in double and triple configurations for heavier pallets.
Wide Steel Roller *Light to heavy pallet flow*	Used in applications where pallets have inconsistent bottom surface, plastic pallets and where bottom runners are parallel to direction of flow.	Up to 5,000 lbs.	Split-rail systems and full-width systems available depending on requirements. 1.9" diameter galvanized steel rollers.

Solid metal pallet stops are integrated into every lane.

STRUCTURAL OR ROLL-FORMED PALLET RACK

Plastic wheel pallet flow rails rest on angle of structural beam or in the step of roll-formed beam for low-profile storage with maximum vertical space.

Metal skate wheel rails are notched to fit into the step of pallet rack beams.

Pallet Flow Specifications

Wheels	Application	Load Capacity	Dia.	Width	Characteristics
Bearingless Plastic Wheel *Light flow applications*	• Pick modules • Wash-down environments • Heavy impact areas	580 lbs. per wheel	2.87"	1.375"	Material: Polycarbonate alloy resin; reinforced rib design; high-strength and significant impact resistance.
Bearing Plastic Wheel Standard or Sealed *Moderate to heavy flow*	• FIFO deep lane • Push back • Pick modules • Empty return lanes	320 lbs. per wheel	2.87"	1.375"	Material: Polycarbonate alloy resin; specially engineered resins; reinforced rib design; two bearings provide excellent rolling characteristics; sealed bearing where environment is a concern.
Aluminum Wheel Optional Impact Zone Wheel	• 1st and last pallet position in forklift load / unload zones • Heavy impact areas	320 lbs. per wheel	2.87"	1.125"	Material: Aluminum high-strength wheel; two bearings provide excellent rolling characteristics; high-strength and significant impact resistance.
Metal Skate Wheel Ligh-Duty Wheel for light loads in picking applications	• Picking applications (2-3 deep) • Light loads with lower risk of pallet hang-ups • Empty return lanes	100 lbs. per wheel	1.9"	0.5"	Material: Zinc plated steel. Light-duty wheel with lower capacity. Ball bearings provide low-friction rolling characteristics.

PALLET FLOW

WIDE-ROLLER

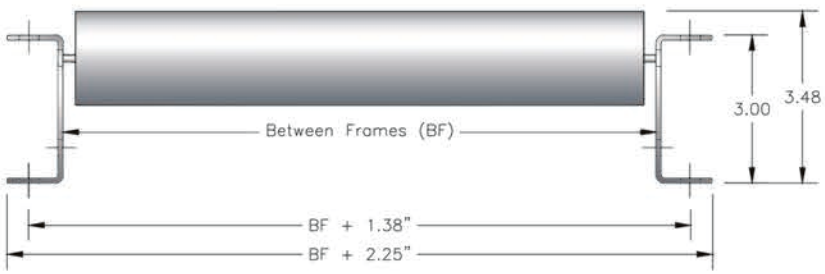
Full-width rollers provide total pallet support throughout flow lane (shown with pallet entry guides)

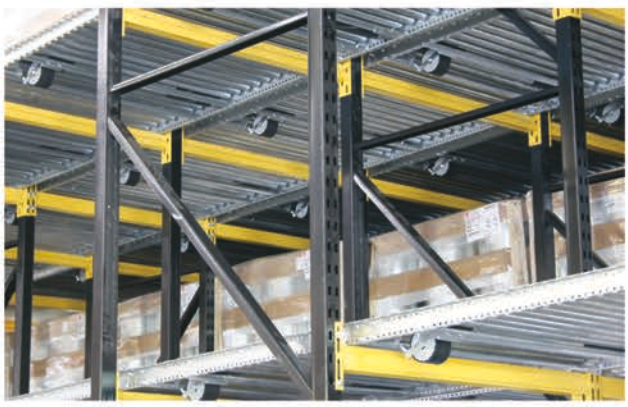
Steel Rollers

Roller configurations available on 2", 3" or 4" centers and up to 52" wide to help support even the most inconsistant pallets.

Gravity steel roller systems function in most environments, even temperatures down to -40° F. Rollers are available in galvanized or oil finish and provide an excellent rolling surface for:

- Plastic pallets
- Skids
- Wire baskets
- Slip sheets
- Corrugated skids
- Plastic returnable shipping containers
- Odd size pallets
- Pallets with bottom runners parallel to direction of flow





Factory-installed brakes are used for speed control in deep lane wide-roller systems.

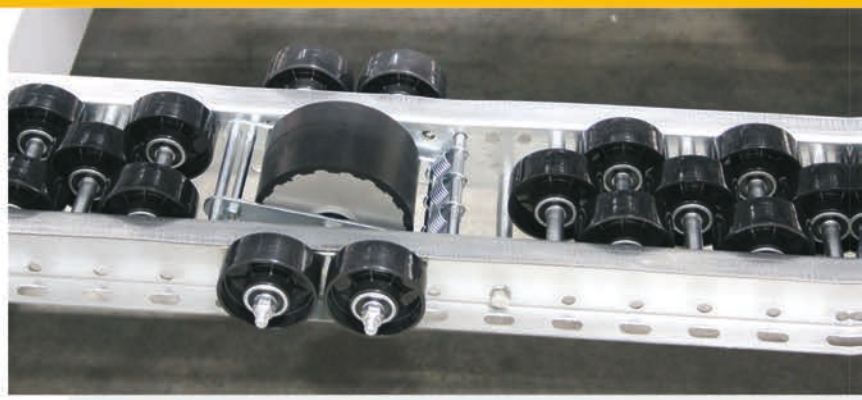
Pallet Flow Specifications

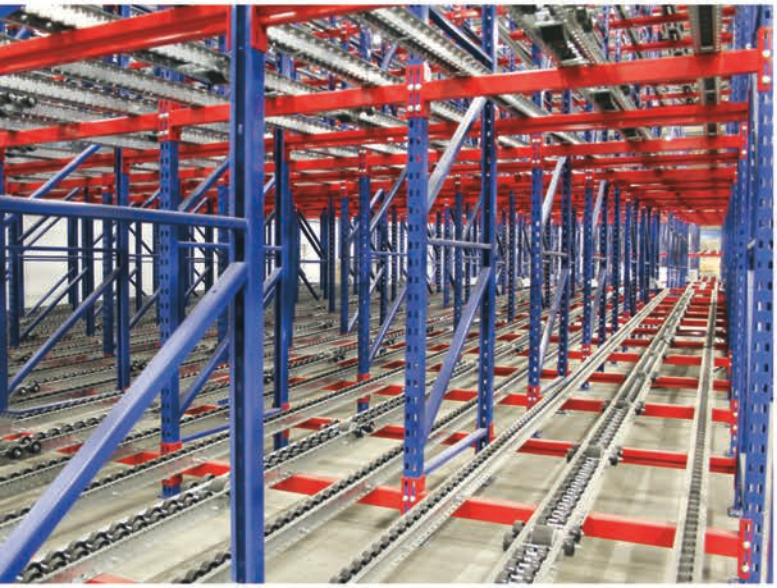
Wheels	Application	Load Capacity	Dia.	Characteristics
Steel Roller	• FIFO • LIFO systems • Plastic/multiple pallets or slip sheets	270 lbs. per roller	1.9"	Widths: 4.25 to 52 inches, full-width or split-rail roller systems in 12 to 16 gauge galvanized steel. Sealed bearings are optional.

Brakes and Brake Tracks

Speed controllers are manufactured from high-strength, glass-reinforced engineered resins with molded-in metal reinforcements in all high-stress areas. Permanently lubricated with a special high/low temperature lubricant, ensures speed controllers require no further maintenance.

- Factory installed in ALL tracks
- Patented cantilever wheel support design
- Specially engineered resin wheels
- Additional load support in the braking zone





Deep lane systems maximize warehouse space by eliminating aisles and creating dense pallet storage. Concentric braking and speed control mechanisms keep your pallets flowing safely and minimize product damage.

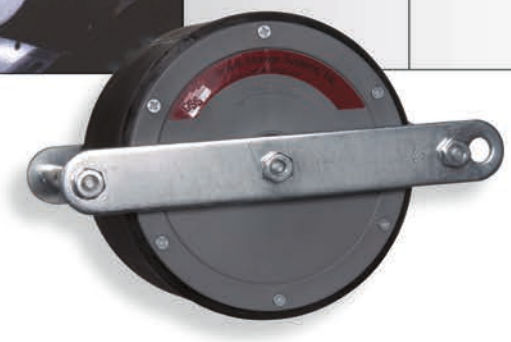
Engineered Pallet Speed Control

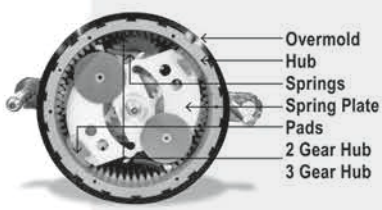
Concentric Storage Systems provides application analysis, engineering, testing, and expert installation.

Speed controllers specifically engineered for your pallet size and weight.

Pallet Flow Brake Specifications

Wheels	Application	Characteristics
Speed Controller/Brake *Light, moderate and heavy flow*	Provides speed control in steel roller and plastic wheel pallet flow systems.	Centrifugal brake plate, rotated by a two-stage planetary gear mechanism. Outer hub features a polyurethane over mold that provides high friction contact with the pallet. Inner brake construction from engineered high-strength resins and galvanized metal to ensure maintenance-free, maximum durability and long service life.





Innovative carton flow and pallet flow ideas to increase warehouse efficiency.

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