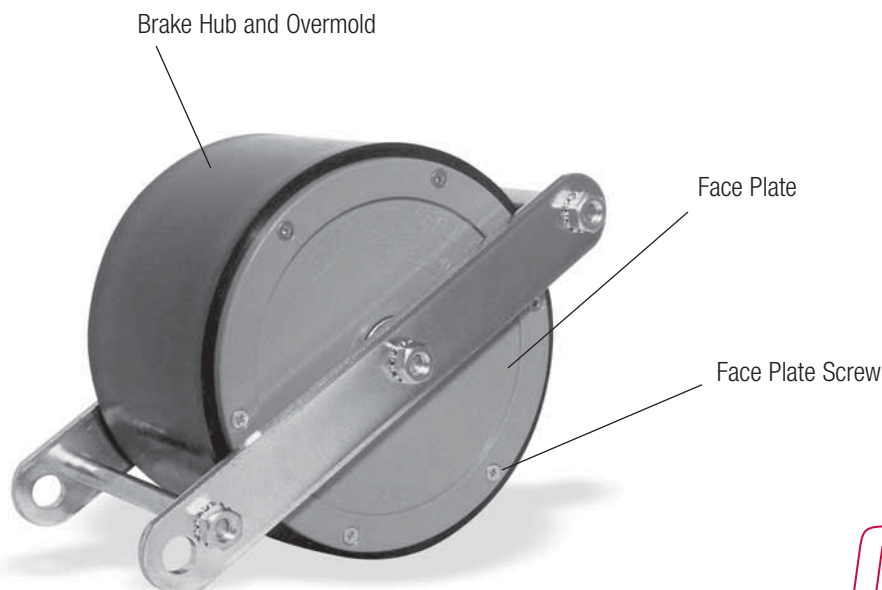




# BRAKES

Creative Storage Systems speed controllers are manufactured with a high-strength, glass-reinforced engineered resin incorporating molded-in metal reinforcements in all high-stress areas. Each speed controller is permanently lubricated with a special high/low temperature lubricant which eliminates maintenance. All speed controllers are installed in the tracks at the factory with our patented gravity conveyor roller brake mounts.

Component	Specifications
<b>Hub and Overmold</b>	The hub is molded from glass-reinforced engineered resin, providing high strength and durability. To increase friction with the pallet and improve wear resistance, a rubber polymer is overmolded to outside surface of the hub.
<b>Face Plate</b>	The rib is reinforced with an extended inner lip to add dimensional and structural strength with reinforced screw holes. Plastite screws are used to attach the face plate to the brake hub.
<b>Bearings</b>	Semi-sealed bearings are lubricated for life.
<b>Internal Gears</b>	Spur gears are molded using a thermoplastic polyester resin that provides high strength dimensional stability, chemical resistance and lubricity.
<b>2 Gear Hub</b>	The solid gear post supports are made of a glass reinforced self-lubricating material. Raised seats provide a solid base for the gear face. The gears are secured in place with Plastite screws and metal integrated discs.
<b>3 Gear Hub</b>	All the characteristics of the 2 gear hub with the addition of a 10 gauge hexagonal inner support member molded around a hexagonal axle.
<b>Spring Plate</b>	The extra thickness in all stress areas provides additional dimensional stability, strength and longer spring life.
<b>Brake Pads</b>	The specially textured polyurethane provides more friction to the braking surface.



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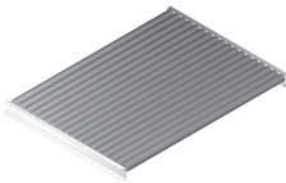
# GRAVITY ROLLER SYSTEMS

Steel rollers are an effective and economical method to flow unique and unusual pallets or containers. Steel rollers must be used when the bottom surface of a container will not provide a consistent flow surface using other methods of conveyance. Steel rollers are durable and capable of handling heavyweight pallets.

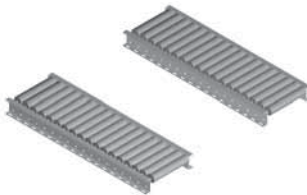
Creative Storage Systems designs and manufactures gravity steel roller systems that meet the needs for the common and the unusual rolling surface. Rollers provide an excellent moving surface for plastic pallets, skids, wire baskets, slip sheets, corrugated skids and plastic returnable shipping containers as well as the unusual and odd size pallets.

Component	Specifications
<b>Channels</b>	C-design, heavy-gauge galvanized steel provides maximum strength. Various profiles are available.
<b>Rollers</b>	Heavy-gauge steel, galvanized or non-galvanized 1.9" (48.3 mm) or 2.5" (63.5 mm) diameters
<b>Capacity</b>	100 to 5,000 lbs. per pallet determined by number of tracks, roller BFs, roller centers and channel profiles
<b>Between Frames</b>	Multiple standard BFs from 4" to 52"
<b>Bearings</b>	2 ball bearings, low maintenance, permanently lubricated, operating in temperature ranges as low as -80° F. Sealed bearings are optional.
<b>Speed Controls</b>	When required, maintains and controls maximum speed at 60 sfm (.30 mps)

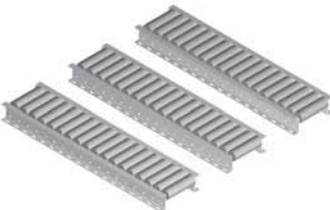
## Gravity Roller Systems Type: Single Track Roller System



## Two Track Roller System



## Three Track Roller System



create. innovate. perform.

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# WHEELS

Creative Storage Systems designs and develops plastic wheels that meet the demanding requirements of pallet flow and storage. Each wheel design has been rigorously tested to insure reliability and durability.

Track Type/Description	Application	Features and Benefits
 <p><b>FreeWheeler™ (Bearingless)</b> Exclusive rib-reinforced resin design with maintenance free, self-lubricating axle that is wash-down friendly. Twice the width of a conventional steel wheel results in better pallet flotation, less drag and fewer pallet hang-ups. FreeWheeler™ are available in light-duty (50#) and (225#) capacities.</p>	<ul style="list-style-type: none"> <li>• Light flow applications, pick modules, wash-down environments, heavy impact areas &amp; special speed control designs.</li> <li>• Pick systems, push back and empty pallet return lanes and guide tracks</li> <li>• A perfect solution to wash-down environments</li> </ul>	<ul style="list-style-type: none"> <li>• Dimensions: 1.9" dia. x 1.25" wide</li> <li>• Freewheelers™ are available in light-duty (50 lb.) and (225 lb.) capacities</li> <li>• Reinforced ribs in opposing planes</li> <li>• Specially engineered and chemically enhanced resins</li> <li>• Enhanced support of product being conveyed, wider surface support for pallets or boxes, fewer product hangups due to point loading on wheel surface</li> <li>• Provides additional strength and flexibility and reduces co-efficient of friction</li> </ul>
 <p><b>FreeWheeler™ (Bearing)</b> Provides superior flow compared to steel wheels.</p>	<ul style="list-style-type: none"> <li>• Same as above</li> <li>• Pick Modules, push back, light flow and empty pallet return</li> </ul>	<ul style="list-style-type: none"> <li>• Same as above</li> <li>• Two bearings per wheel</li> <li>• Reinforced rib design</li> <li>• Dimensions: 1.9" diameter</li> <li>• 125 lb. per wheel capacity</li> </ul>
 <p><b>Standard Bearing Wheel</b> Two bearing inserts give these wheels excellent rolling characteristics. They are made of high strength, high impact, engineered resin. Our standard bearing wheel is used in most industrial environments. Special reinforced rib design which adds strength and flexibility.</p>	<ul style="list-style-type: none"> <li>• Moderate to heavy flow applications including pick modules, FIFO, pushback and empty return lanes.</li> <li>• Used in ambient or freezer temperature applications, with light and heavy loads.</li> </ul>	<ul style="list-style-type: none"> <li>• 2 Bearing Insert Design</li> <li>• High Strength/Significant Impact Wheel</li> <li>• Reinforced rib design</li> <li>• Extended inner race</li> <li>• Dimensions: 2.875" dia. x 1.375" wide.</li> <li>• 320 lb. capacity</li> <li>• Excellent rolling characteristics for smooth transfer of product.</li> <li>• Durable construction and design for long service life</li> </ul>
 <p><b>Sealed Bearing Wheel</b> A special lubricant and seal allows the bearing to perform well in wash-down, dusty, contaminated and high moisture environments. The sealed bearing wheel performs well with light and heavy loads.</p>	<ul style="list-style-type: none"> <li>• All types of systems where environment is of concern.</li> <li>• Used in wash down, dusty or contaminated environments, including ambient temperature applications.</li> </ul>	<ul style="list-style-type: none"> <li>• High Strength/Significant impact wheel</li> <li>• Reinforced rib design</li> <li>• Extended inner race</li> <li>• Wider sealed bearing</li> <li>• Dims: 2.875" dia. x 1.375" wide</li> <li>• 320 lb. capacity</li> <li>• Fully grease packed, lubricated for life</li> <li>• Durable construction and design for long service life</li> </ul>
 <p><b>Bearingless Wheel</b> High strength and significant impact resistance are the hallmarks of this wheel.</p>	<ul style="list-style-type: none"> <li>• Pick modules, carton flow, pushback, wash-down, empty pallet return lanes and guide tracks.</li> <li>• Used as a transit speed control device as well as in high impact areas</li> <li>• Wash-down, dusty or contaminated environments, including ambient temperature applications</li> </ul>	<ul style="list-style-type: none"> <li>• Dimensions: 2.875" x 1.375" wide</li> <li>• Reinforced rib design</li> <li>• High Strength/Significant Impact Wheel</li> <li>• 580 lb. capacity</li> <li>• Excellent rolling characteristics for smooth transfer of product.</li> <li>• Durable construction and design for long service life</li> </ul>



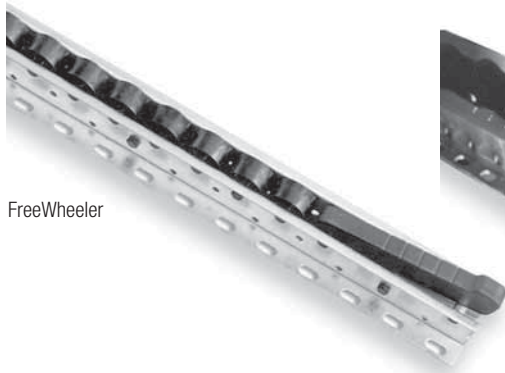
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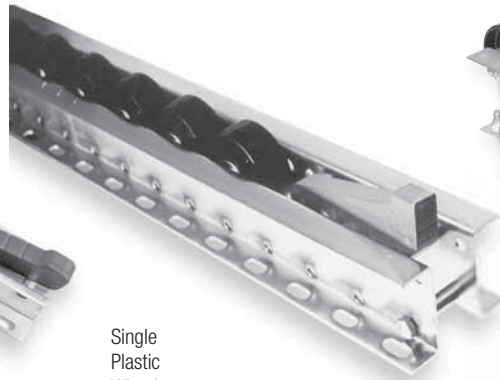


# TRACKS

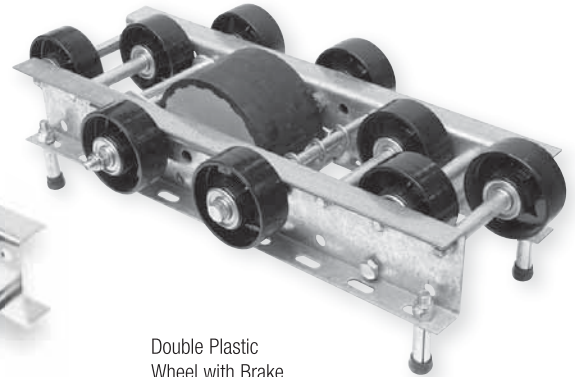
Creative Storage Systems offers a variety of pallet flow tracks with designs and configurations to meet multiple applications in pallet movement and storage. Wheels, channels and axles combine to accommodate the common to unusual pallet and load ranges from 100 to 5,000 lbs.



FreeWheeler



Single Plastic Wheel



Double Plastic Wheel with Brake

	FreeWheeler™ Track*	Single Plastic Wheel Tracks	Brake Tracks
<b>Description</b>	FreeWheeler Tracks accommodate light loads to heavy pallets in excess of 3,000 pounds. The system is designed to replace steel wheels on flow applications.	This single, high impact, engineered resin wheel configuration is exceedingly versatile and cost efficient. The single track can be utilized in conjunction with the double and triple track configuration.	The double staggered, high-impact, engineered resin wheel track configuration provides a wide support area. The track allows for a variety of different pallets to be flowed, including GMA, Plastic, EURO, Slave, Boxes. The wheels can be configured on 2-, 3- or 4- inch centers depending on the support requirements and load characteristics.
<b>Wheels</b>	1.9 inch wheel	2.78 inch wheel	2.78 inch wheel
<b>Weight Capacity</b>	100 to 2,000 lbs.	1,500 to 3,500 lbs.	2,000 to 5,000 lbs.
<b>Application</b>	Ideal for pick systems, push back and empty pallet return in light to moderate loads	Used in moderate to heavy pallet flow applications for industrial production and distribution pallet storage environments.	Used in moderate to heavy pallet flow applications for industrial production and distribution pallet storage environments.
<b>Characteristics</b>	Utilizes bearing and bearingless FreeWheeler™ wheels. FreeWheeler provides better flow and capacity due to wider wheel surface and 5/16" axles when compared to skate wheels.	Wheel patterns can be designed inline or staggered on 2-, 3- or 4- inch centers using the bearingless and bearing 2.78" diameter plastic wheel.	Employs patented cantilever-designed mount for pallet support. Wheel patterns can be designed inline or staggered on 2-, 3- or 4- inch center configurations. Can be used in double and triple configurations for heavier pallets.



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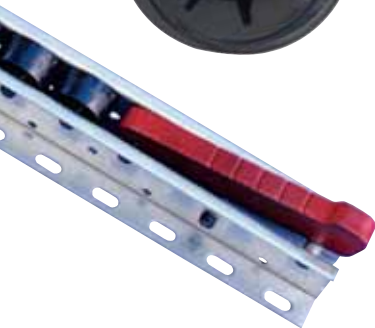
# NEED MORE INFORMATION?

*More specific information is available on Creative Storage Systems products at [www.creativestorage.com](http://www.creativestorage.com). Printable pdf files on these products are available on the CSS Web site at [www.creativestorage.com](http://www.creativestorage.com).*



## Wheels

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## Tracks

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## Wide Rollers

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## Brakes

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