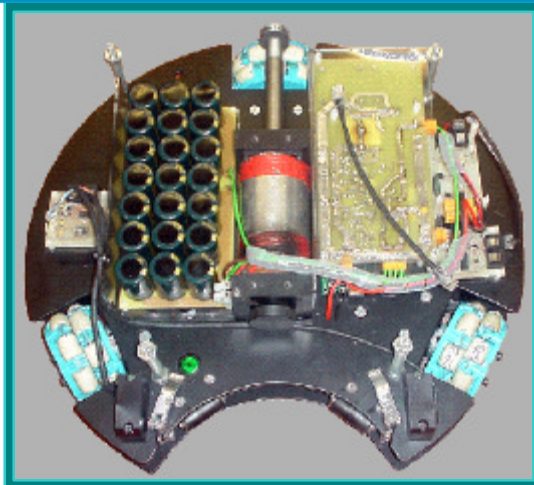
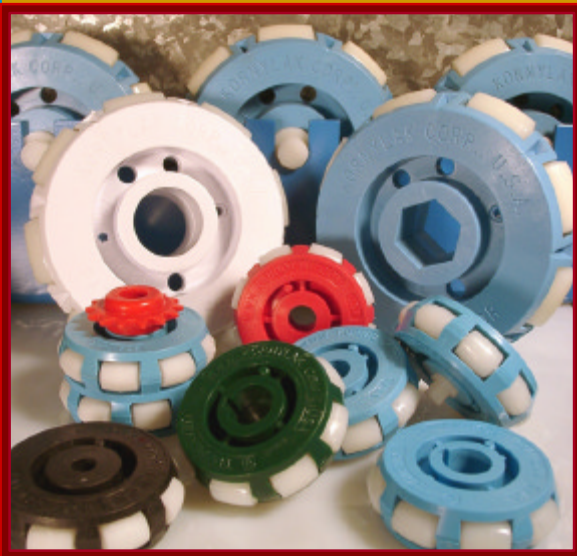
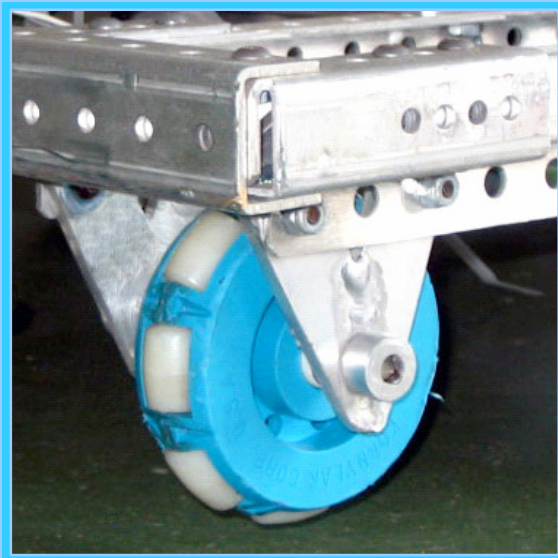
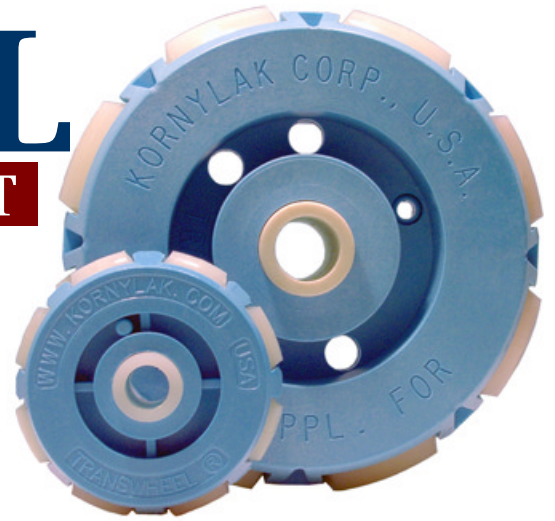


TRANSWHEEL

FOR MULTI-DIRECTIONAL MOVEMENT



KORNILAK CORPORATION

Hamilton, Ohio U.S.A

www.kornilak.com

1-800-837-5676

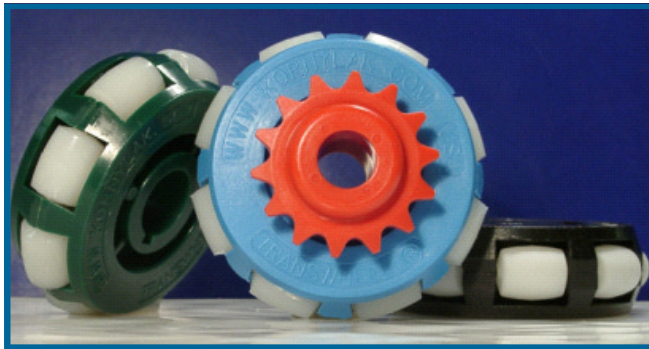
TRANSWHEEL

Unique Design

The Transwheel's unique design contains eight free-turning rollers perpendicular to the axle arranged around the Transwheel periphery. This distinct design combined with the rotation of the wheel body provides the ability to move loads in any direction without "freezing." Its enclosed, light-weight body is self cleaning and keeps out foreign material.

Corrosion-Resistant Structure

Transwheels are constructed with a standard ABS body, Nylon rollers, a Polyethylene center axle, Delrin sprockets, and stainless steel roller axles with low friction coatings. The combination of these materials creates a corrosion-resistant wheel that allows steam cleaning, water immersion, and outdoor use. Self-lubricating properties eliminate the need for oil or grease.



Sizes

Transwheels are available with a 2" or 4" outer diameter. The Series 2000 Transwheels have a 2" outer diameter and a 25 pound/wheel load rating. The Series 4000 Transwheels have a 4" outer diameter and a 100 pound/wheel load rating. Center bore diameters vary according to the particular Transwheel model.

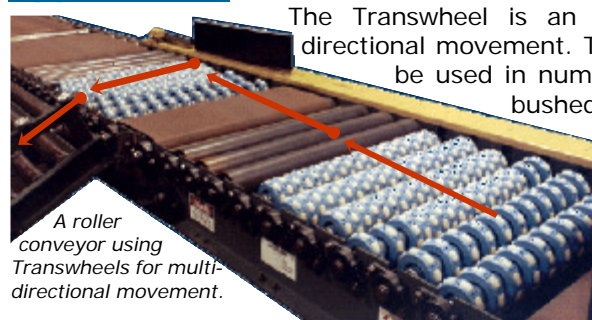
Styles

The Transwheel is available in a variety of styles for standard and special applications.

- Standard Transwheel Models: Plain Bore, Bushed, Axled, Keyway, Sprocketed, Multiple Row, and Hex Bore.
- Transwheel Assemblies: Idler Transrail and Transection.

In addition, Kornylak will design and furnish special Transwheels and Transwheel Assemblies to suit your specific needs.

Applications



A roller conveyor using Transwheels for multi-directional movement.

The Transwheel is an indispensable component for any application that requires multi-directional movement. The Transwheel's unique features create an all-purpose wheel that can be used in numerous industries ranging from **material handling** to **robotics**. The bushed Transwheel has the same basic dimensions as a standard skatewheel, and can easily convert any section conveyor into a multi-directional "ball table" or work station using the same axle rods and spacers. The keyway and the sprocket models allow the Transwheel to be used as a powered conveyor wheel. The Cat-Trak Transwheels offer resilient, non-marring surfaces for use with robots, and by glass and window manufacturers. The Transwheel's exceptional light weight is an important advantage for portable or aircraft equipment.

Other applications include: conveyor discharge or loading stations, packaging tables, appliance casters, transfers between angled conveyors, powered turns and powered multi-directional tables.

Options

Cat-Trak Transwheel: The Cat-Trak Transwheel has been specially designed with traction in mind when power is applied. The Cat-Trak Transwheel has the ability to provide the ultimate in gripping power to operate on slick surfaces. Unlike the standard Transwheel rollers that are made from nylon, the Cat-Trak Transwheels are produced with either **Synthetic Rubber Coated Polypropylene Rollers or Polyurethane Rollers**. The Cat-Trak Transwheels are highly popular for use with robots, glass and window manufacturers, and in other similar circumstances where wheels need traction to grip the surface. The Polyurethane Rollers provide a stronger gripping force than the Rubber Coated Rollers; however both wheels provide remarkable traction. The Series 4000 Transwheels are available with both types of Cat-Trak rollers, and the Series 2000 Transwheels are available only with the Synthetic Rubber Coated Polypropylene Rollers.

High-Impact Plastic: Transwheels are also available in a high-impact plastic that provides resistance to extreme vibration. These Transwheels are ideal for 90 degree transfers using gravity or power, and are widely used by automotive tire manufacturers for conveying and in-process storage of rubber ply stock.



A specially designed Transwheel Assembly with 4" Double Row Transwheels.

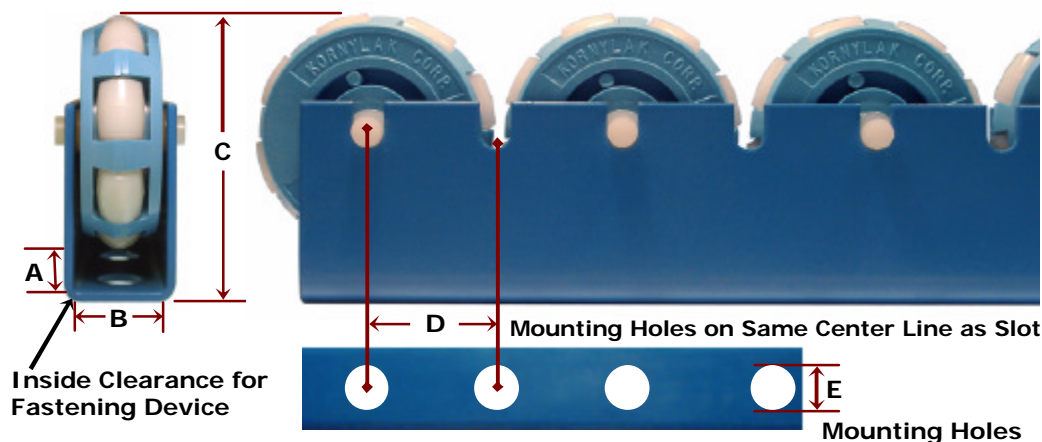
Idler Transrail

The Idler Transrail comes in 5-foot lengths with closely spaced holes in bottom face for trouble-free mounting. They are available for both the 2" Axled Transwheels (Model 2051A with 25 lb. capacity) and the 4" Axled Transwheels (Model 4201A with 100 lb. capacity.) The Axled Transwheels snap into snug-fitting slots for multiple spacing, and the rails are powder coated blue. The Idler Transrail is ideal for construction of ball tables, diverters, and work stations.



Idler Transrail with 4" Axled Transwheels.

Dimensions



	FFB109	FFC120
	Series 2000	Series 4000
A	5/16"	5/8"
B	3/4"	1-5/8"
C	2-3/8"	4-3/4"
D	1-1/32" TYPICAL	1-1/32" TYPICAL
E	13/32" DIA.	17/32" DIA.

Transection

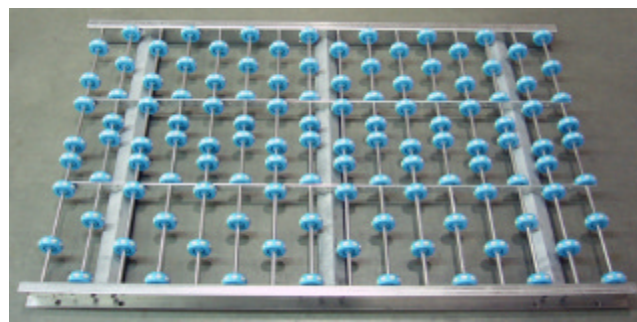
Transections are Transwheel gravity sections that can be substituted for skatewheels in standard skate conveyors to provide convenient ready made work stations, easy side load/unload conveyors, or "ball tables." Transections use 2" Transwheels and are available in six varieties.

Transection Features

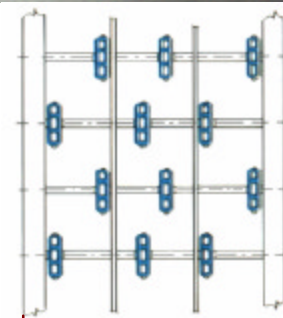
- Completely bolted construction
- Formed 10 gage aluminum or 12 gage enameled steel channel
- Accurately aligned 1/4" diameter steel axles
- Aluminum or zinc plated steel spacers
- Stringers and cross braces of 10 gage aluminum or 12 gage steel
- Self-locking nuts assure positive assembly

Transection Capacities

- Aluminum Frame (distributed load, supports on 10' centers) – 144 lbs.
- Steel Frame (distributed load, support on 10' centers) – 320 lbs.

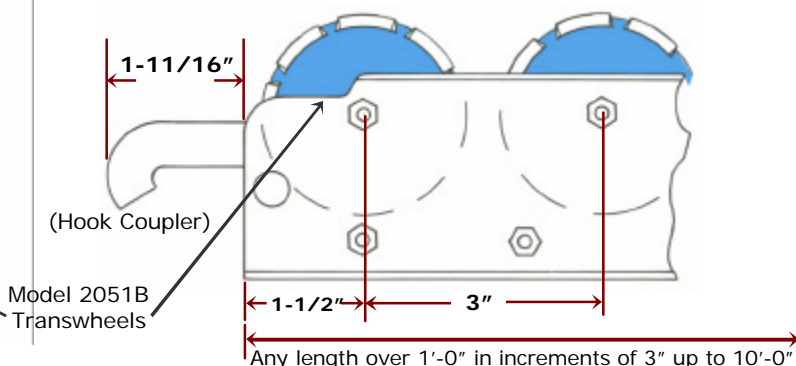
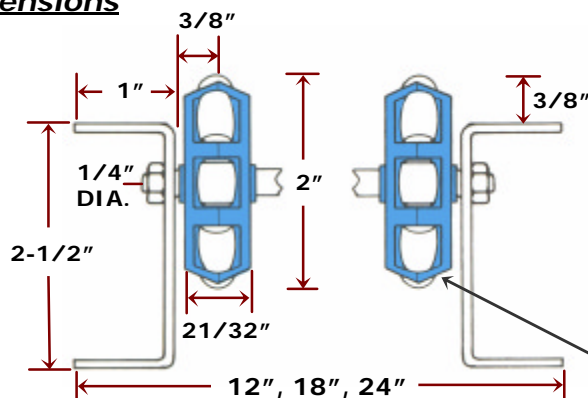


Transection Width	Wheels Per Foot
12"	10
12"	12
18"	16
18"	18
24"	20
24"	24


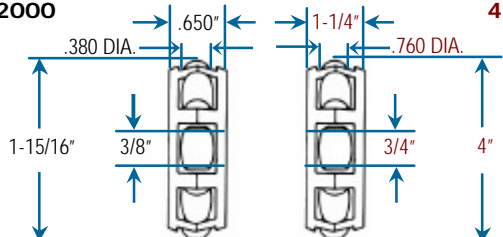

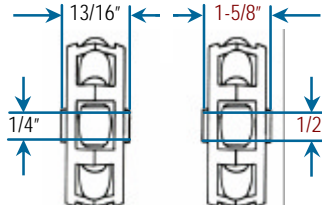

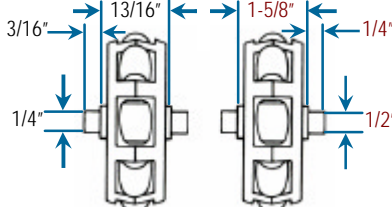

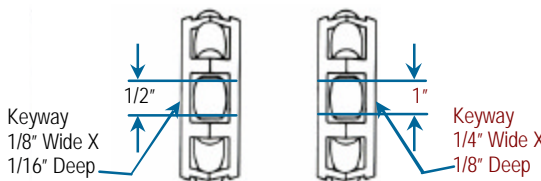

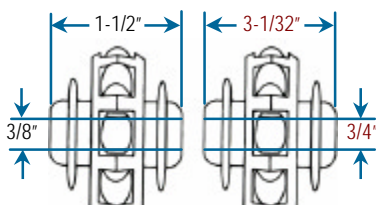

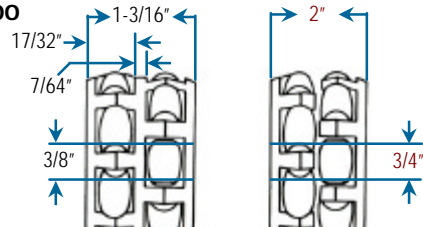

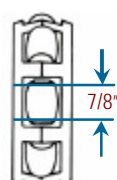


12" 12 Wheels Per Foot
Other options shown in chart.

Dimensions



Standard Transwheel Models

<div>Plain Bore</div> 	<div>2000</div> <div>4000</div> 	<div>PLAIN BORE: Models 2051, 4201</div> <ul style="list-style-type: none">For applications where side clearance is assured to allow the wheel to rotate freely without a bushing <div>Also Available In:</div> <div>2": 1/4" ID, 1/2" ID, 10mm, HI, X</div> <div>4": 3/4" ID, HI, X, XU</div>																									
<div>Bushed</div> 	<div>2000</div> <div>4000</div> 	<div>BUSHED: Models 2051B, 4201B</div> <ul style="list-style-type: none">Guarantees wheel side clearance in applications where wheel is clamped between rails or spacersHas exact diameter, width, and bore as skatewheelsConverts any portion of existing skatewheel conveyor into ball table equivalent <div>Also Available In:</div> <div>2": HI, X</div> <div>4": HI, X, XU</div>																									
<div>Axled</div> 	<div>2000</div> <div>4000</div> 	<div>AXLED: Models 2051A, 4201A</div> <ul style="list-style-type: none">Can conveniently be dropped into a slotted channel without the need for an axleShoulders on the built-in axle maintain wheel side clearance <div>Also Available In:</div> <div>2": HI, X</div> <div>4": HI, X, XU</div>																									
<div>Keyway</div> 	<div>2000</div> <div>4000</div> 	<div>KEYWAY: Models 2051K, 4201K</div> <ul style="list-style-type: none">Mounts on a keyed shaft to provide powered movement of load in wheel direction <div>Also Available In:</div> <div>2": HI, X</div> <div>4": HI, X, XU</div>																									
<div>Sprocketed</div> 	<div>2000</div> <div>4000</div> 	<div>SPROCKETED: Models 2051S, 4201S</div> <ul style="list-style-type: none">Turns on plain shaft when chain driven to provide powered movement in wheel directionSprocket on each side permits chain engagement on either or both sidesSprockets are welded or available separately <div>Also Available In:</div> <div>2": HI, X</div> <div>4": HI, X, XU</div>																									
<div>Multiple Row</div> 	<div>2000</div> <div>4000</div> 	<div>MULTIPLE ROW: Models 2052, 4202</div> <ul style="list-style-type: none">Provides smoother rolling in single wheel applicationsAvailable in three styles: plain bore, bushing, axle <div>Also Available In:</div> <div>2": 1/4" ID & Bushing, 1/2" ID & Keyway, HI, X</div> <div>4": 1/2" ID & Bushing, 1" ID & Keyway, HI, X, XU</div>																									
<div>Hex Bore</div> 	<div>4000</div> 	<div>HEX BORE: Model 4201HB</div> <ul style="list-style-type: none">Mounts on hex shaft to provide powered movement of load in wheel direction <div>Also Available In:</div> <div>2": Available Upon Request</div> <div>4": HI, X, XU</div>																									
<div>NOTE: HI: High-Impact Plastic, X: Synthetic Rubber Coated Polypropylene Rollers, XU: Polyurethane Rollers</div>		<table><tr><th colspan="5">Maximum Load Capacity for Each Model Based on Bottom Surface Indentation Per Wheel</th></tr><tr><th></th><th>Model 2051</th><th>Model 2052</th><th>Model 4201</th><th>Model 4202</th></tr><tr><td>Steel</td><td>25 lbs.</td><td>25 lbs.</td><td>100 lbs.</td><td>100 lbs.</td></tr><tr><td>Plywood</td><td>7.5 lbs.</td><td>15 lbs.</td><td>40 lbs.</td><td>80 lbs.</td></tr><tr><td>200 lbs. Test Corrugated</td><td>5 lbs.</td><td>10 lbs.</td><td>20 lbs.</td><td>40 lbs.</td></tr></table>	Maximum Load Capacity for Each Model Based on Bottom Surface Indentation Per Wheel						Model 2051	Model 2052	Model 4201	Model 4202	Steel	25 lbs.	25 lbs.	100 lbs.	100 lbs.	Plywood	7.5 lbs.	15 lbs.	40 lbs.	80 lbs.	200 lbs. Test Corrugated	5 lbs.	10 lbs.	20 lbs.	40 lbs.
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Kornylak Corporation
 400 Heaton Street
 Hamilton, Ohio 45011

Phone: 513-863-1277
Toll Free: 800-837-5676
Fax: 513-863-7644

www.kornylak.com
www.omniwheel.com