



Interroll Dynamic Storage
**Space-saving, high-density
storage and order
fulfillment solutions**

Contents

Interroll Versi Flow	
Carton Wheel Flow	4
Interroll Flostar	
Carton Roller Flow	6
Interroll Floway	
Carton Wheel Flow	8
Interroll Skate Wheel	
Pallet Flow	10
Interroll Wheel Flow	
Pallet Flow	12
Interroll Roller Flow	
Pallet Flow	14
Interroll Speed Controllers	16
Interroll Pallet Separators	17
Design Guidelines	18

Interroll Dynamic Storage: Carton Wheel Flow

> Interroll Versi Flow

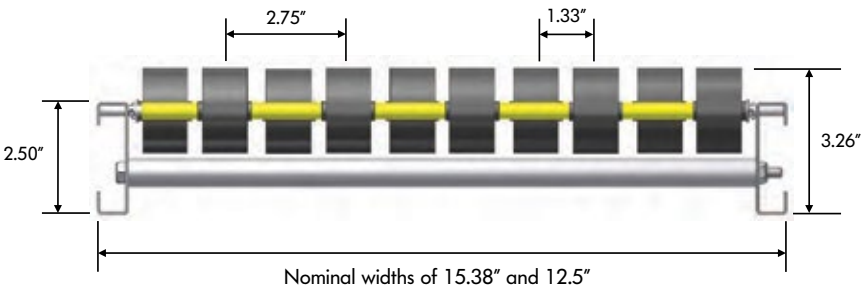
Flexibility at its best

Product Features

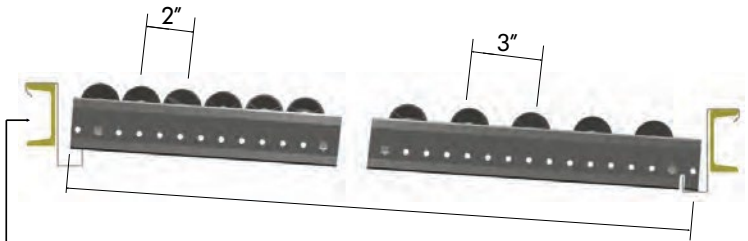
- Allows first-in first-out storage and picking
- Separates picking and replenishment activities
- Allows more inventory to be held at the pick face, greatly reducing replenishment cycles
- Additional pick faces can be added with no additional labor or equipment costs
- Suitable for varying load sizes
- Strong 1.9" diameter polycarbonate wheels resist impact damage
- Galvanized steel axles on 2" or 3" centers
- Available in 2 track widths 15.38" and 12.50" to suit load characteristics and rack design
- Versi Flow tracks are available in any length, no splicing is required even for longer lengths
- Entry and full length guides optional to assist product flow and separation
- Tracks supplied fully assembled and drop into any rack system
- Operating temperature -30°F to 105°F



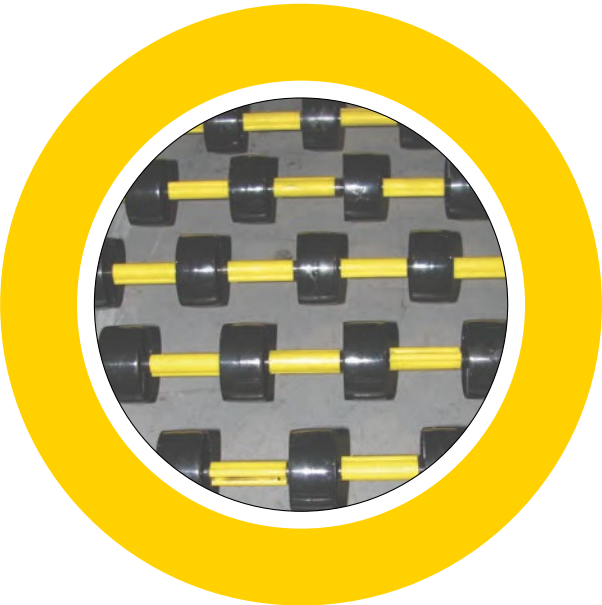
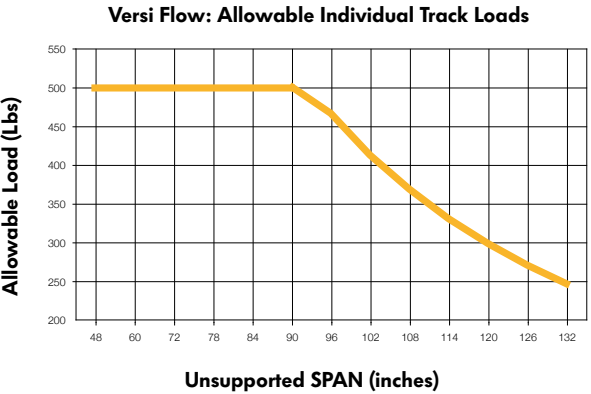
Dimensions



Wheel pitch 2" or 3" centers



Mounting brackets are compatible with step beams, box beam and structural beams.



Interroll Dynamic Storage: Carton Roller Flow

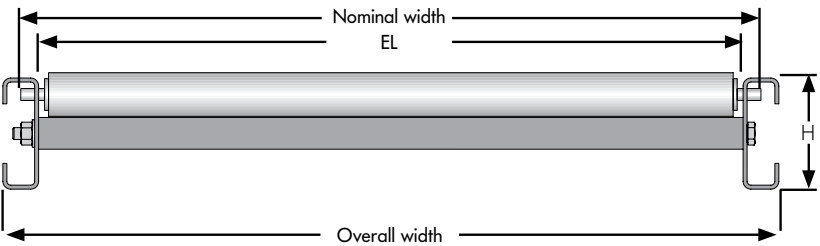
> Interroll Flostar Smooth picking operations

Product Features

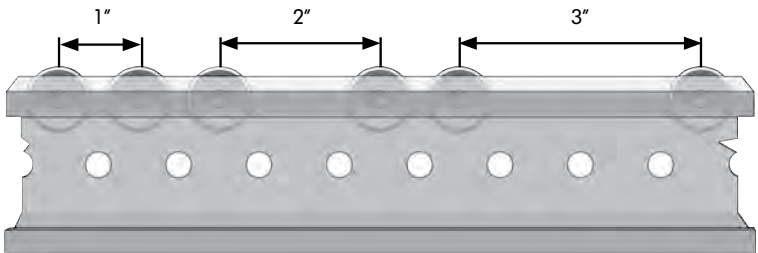
- Allows first-in first-out storage and picking
- Separates picking and replenishment activities
- Allows more inventory to be held at the pick face, greatly reducing replenishment cycles
- Suitable for set load sizes
- Available in 4 track widths to suit load characteristics and rack design
- Tracks can accommodate loads up to 50 percent larger than their own width
- Strong 7/8" diameter aluminum rollers on 1", 2" or 3" centers
- Carbon steel axles
- Tracks supplied fully assembled and drop into any rack system
- Operating temperature -18.5°F to 105°F



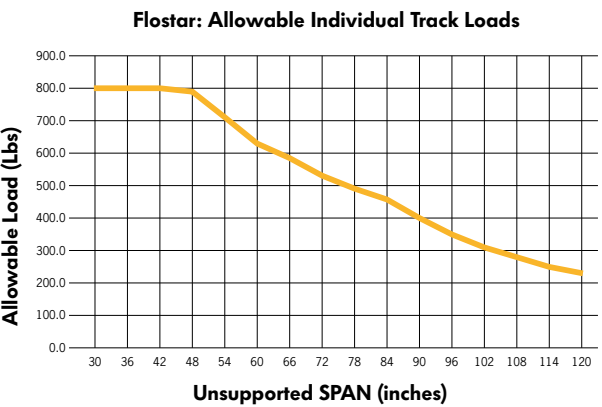
Dimensions



- The width of items to be conveyed can be 1.5 times the nominal track width
- Nominal widths** = 6", 9", 12" and 15"
EL = 5", 8", 11" and 14"
Overall widths = 6.375", 9.375", 12.375" and 15.375"
H = Interroll offers a range of channel profiles to meet your needs



- Roller pitch 1"** = Items shorter than 6"
Roller pitch 2" = Suitable for the majority of applications
Roller pitch 3" = Items longer than 12"



Interroll Dynamic Storage: Carton Wheel Flow

>

New Interroll Floway II

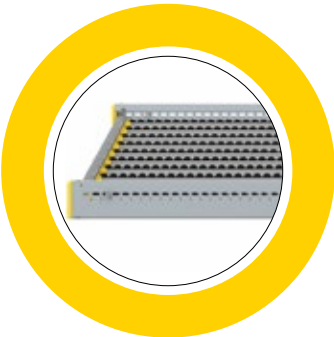
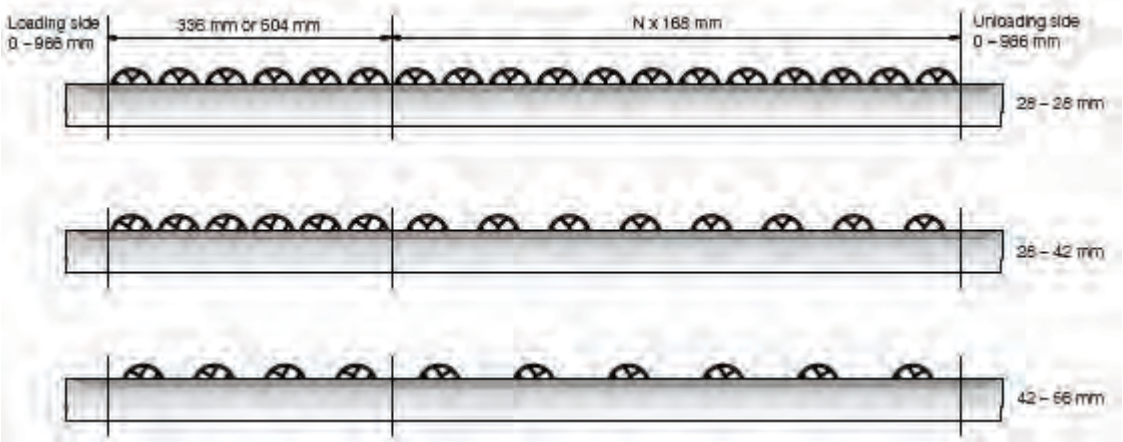
Higher picking rates and faster ROI

The improved design allows reduced shelf incline, thereby providing tighter shelf spacing and increased overall storage capacity

- Solid axle offers smother product flow
- 25% less slope provides increased storage
- Pitch variability gives the most design flexibility: 28 mm, 42 mm and 56 mm.
- Loads of 50 lbs. per square foot
- Easy installation into existing racking and shelving
- Options: lane dividers, end stops, brake clips,
- Wheel colors: standard black



Dimensions



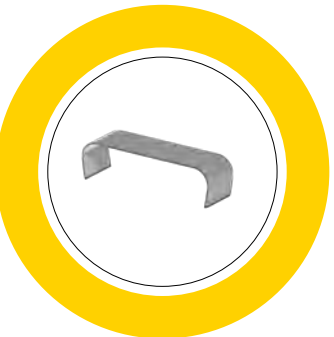
15° tilt tray available



Entry guide



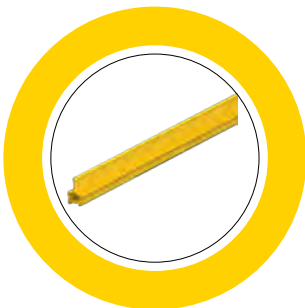
Universal connector accommodates installation to any rack manufacturer's uprights



Brake Clip



Redesigned, y-shaped tracks improves stability and prevents deflection



Full length guide



Black wheels standard



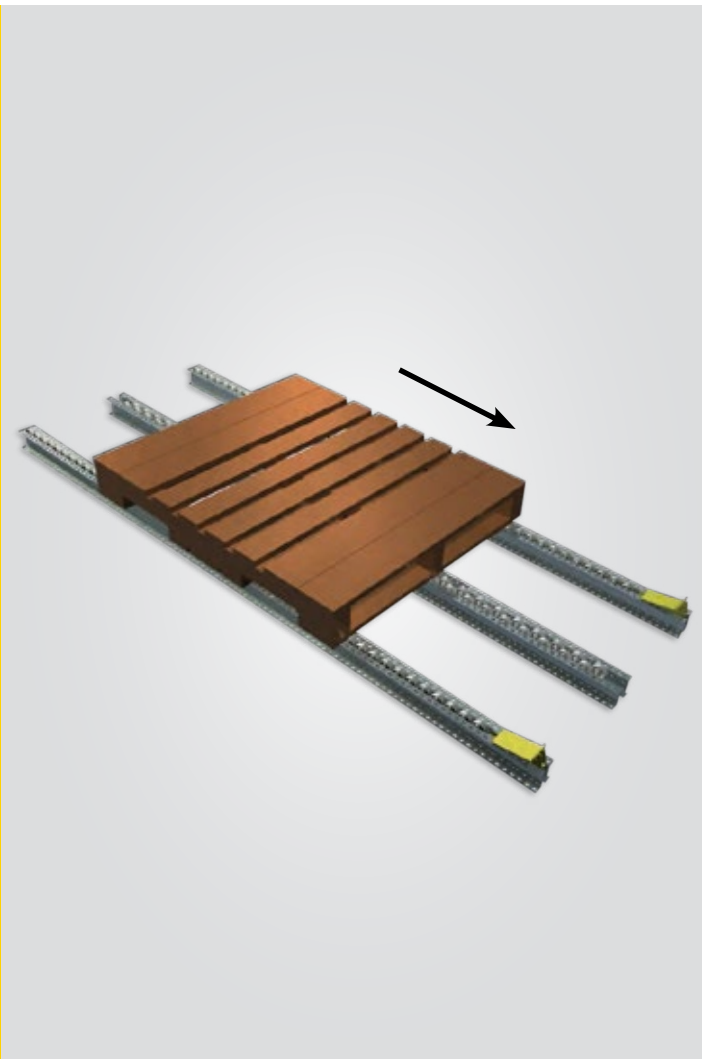
Wheel track with back stop

Interroll Dynamic Storage: **Pallet Flow**

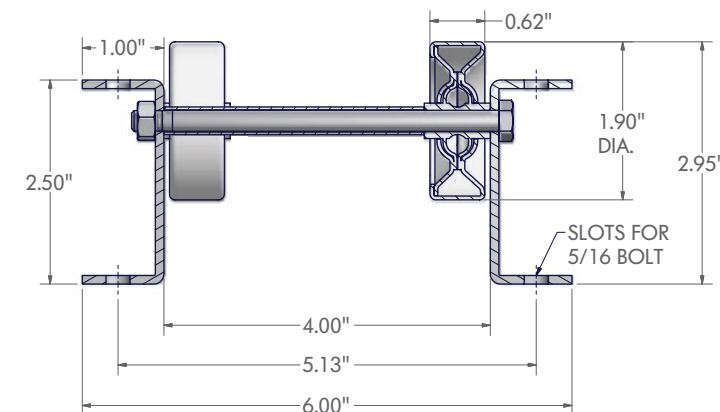
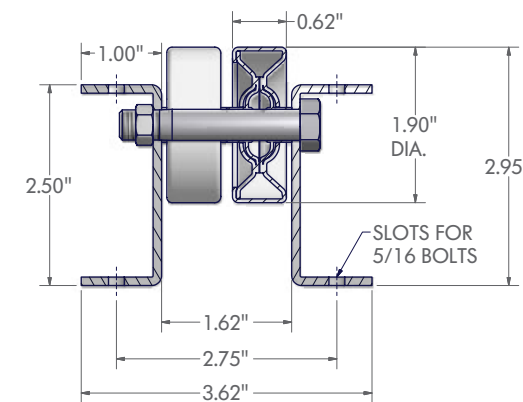
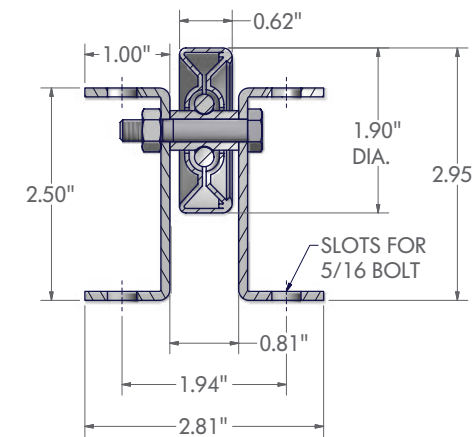
> **Interroll Skate Wheel** Inexpensive solution for picking applications

Product Features

- Often used in multi-tier modules
- Suitable for 2 - 4 deep pallet storage only
- 1.9" diameter wheels with sealed steel bearings on 1.5", 2" or 3" centers
- 2500 lb individual pallet capacity
- Speed controllers can be mounted in 4" BFR tracks
- Pallet stops standard
- Optional pallet separators available
- Pawl stops (anti backup) available to prevent backward flow
- Usable in freezers and coolers down to -20°F
- Also suitable for push-back applications



Dimensions



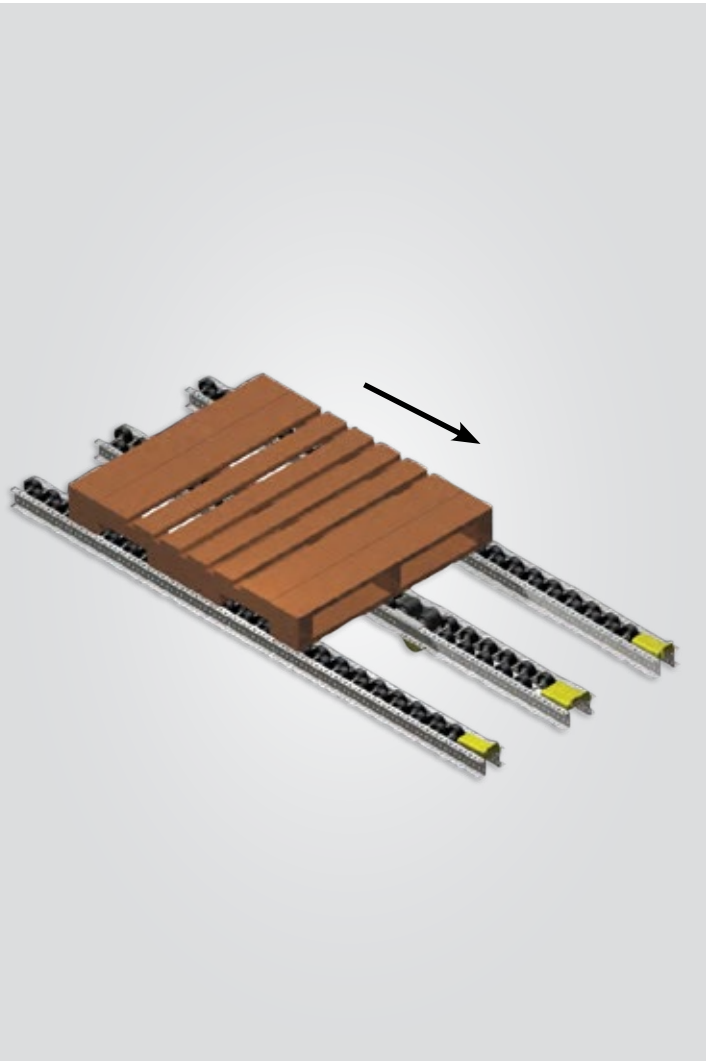
Interroll Dynamic Storage: Pallet Flow

> Interroll Wheel Flow

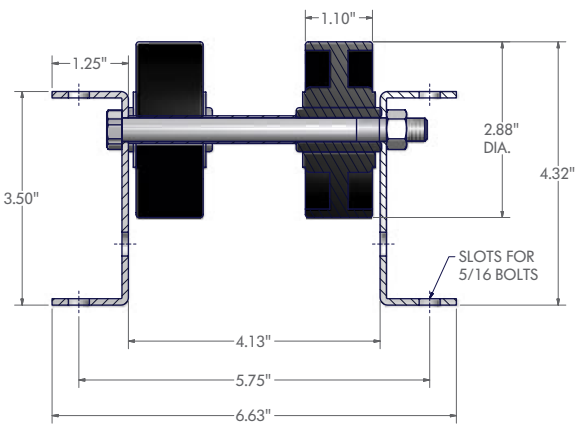
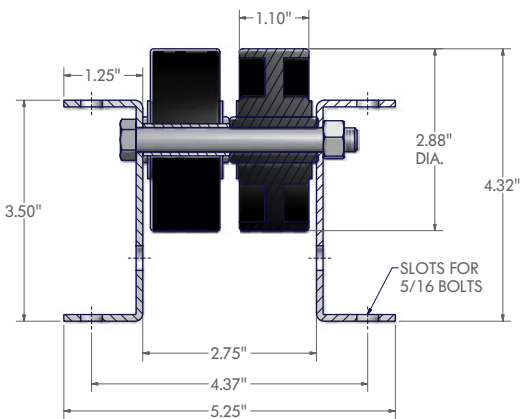
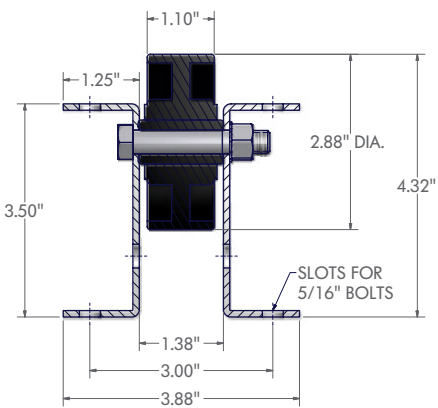
Designed for deep lane storage applications

Product Features

- Used for fast moving, date sensitive and perishable SKU's
- Systems installed up to 32 pallets deep
- 2.88" diameter wheels with sealed galvanized steel bearings on 2" or 3" centers
- Wheels offered in both polycarbonate and high impact aluminum
- Speed controllers can be mounted in 4.13" BFR tracks
- Pallet stops standard
- Optional pallet separators
- Pawl stops (anti backup) available to prevent backward flow
- Impact zones for heavier loads available
- Usable in freezers and coolers down to -20°F, for lower temperatures contact Interroll
- Longer lane lengths require in-field splicing
- Also suitable for push-back applications



Dimensions



3.5" support channels provide greater resistance to deflection when compared to shallower profiles on the market. This results in better pallet flow and stop/restart.



Our polycarbonate polymer wheels offer high resistance to impact and are specifically designed without ribs to provide a "spring" action.

Interroll wheels also flatten slightly under load to prevent them from indenting pallet boards. These features both offer superior flow and performance over more rigid wheel designs.

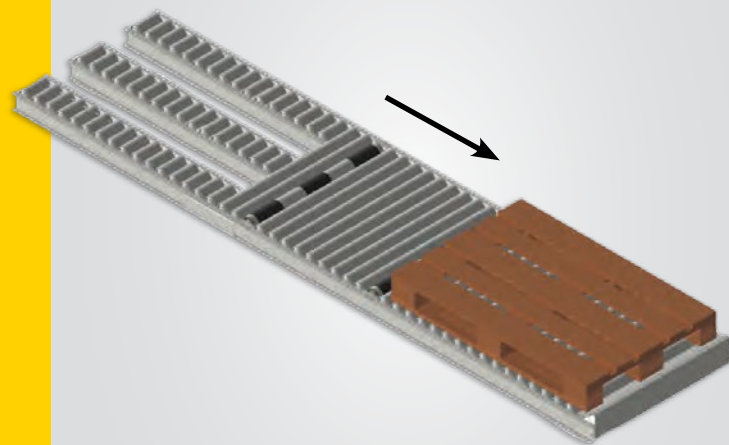
Interroll Dynamic Storage: Pallet Flow

> Interroll Roller Flow

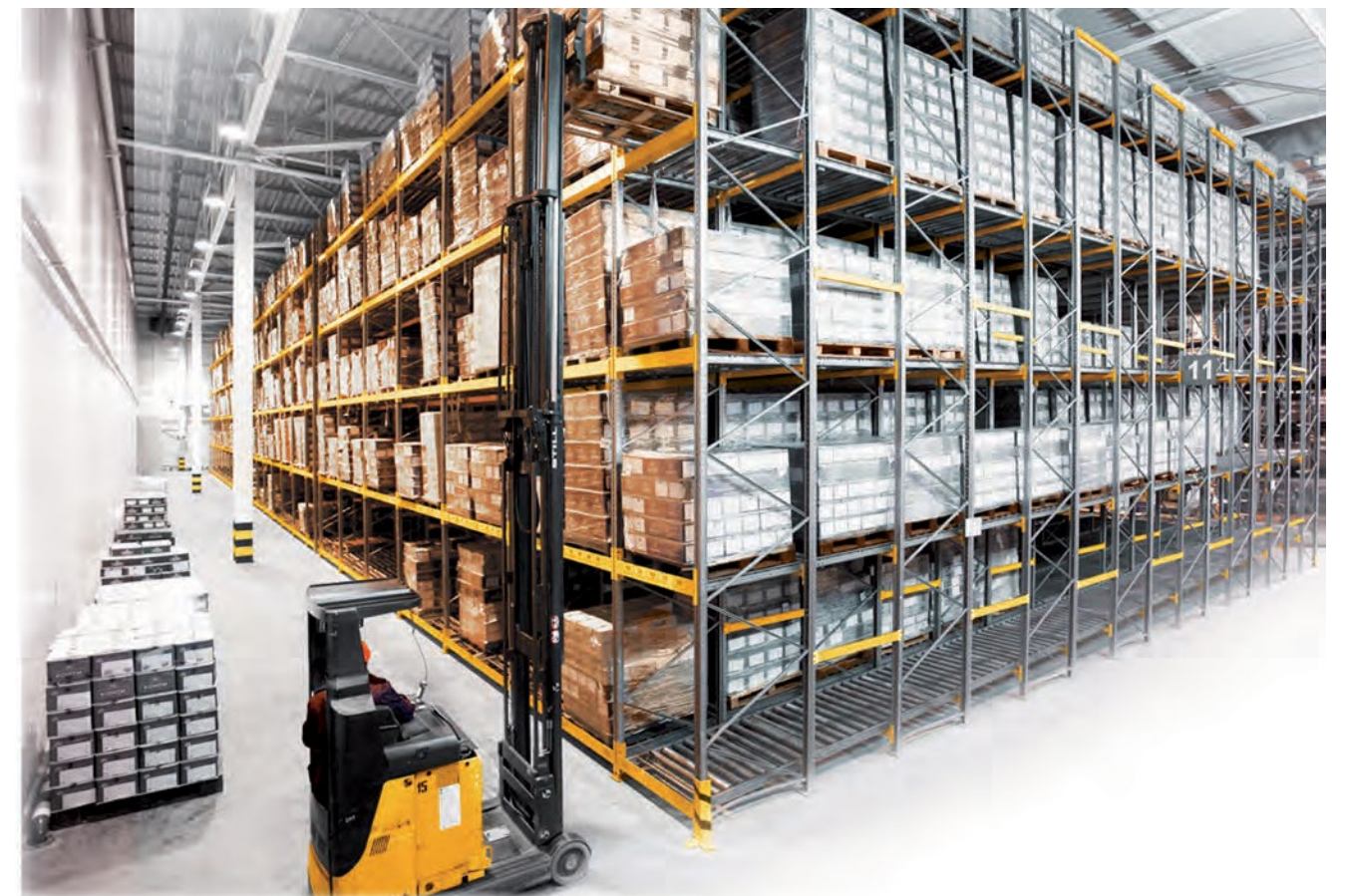
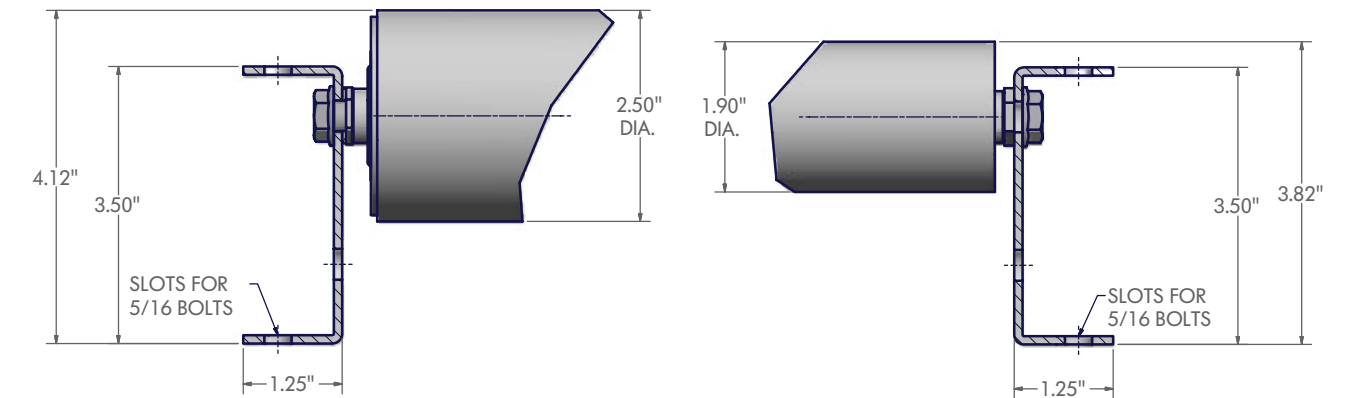
Best for euro, plastic and steel pallets

Product Features

- Used to handle all perpendicular flowing euro, plastic and steel pallets in deep lane storage applications
- Suitable for heavy-duty applications
- Often different pallet types and sizes can be conveyed in a single lane
- Can be designed as a single full width roller lane or multiple narrow roller tracks
- Systems installed up to 32 pallets deep
- 1.9", 2.5" diameter rollers with commercial grade bearings and stub shafts
- Speed controllers can be mounted either in-line or under rollers
- Pallet stops offered as standard
- Optional pallet separators
- Usable in freezers and chillers down to -20°F; for lower temperatures contact Interroll
- Longer lane lengths require in-field splicing
- Can be used for push-back applications with one-way speed controller



Dimensions



Interroll Speed Controllers

Speed controllers are used to govern load speed within a given lane.

The quantity and type of controller selected depend on the Interroll Flow solution employed and the application. Generally the quantity is 'N minus 1' where 'N' is the number of pallets in a lane (i.e. 10 pallets deep would typically require 9 speed controllers). The intent of the speed controller is to keep the pallet under 60FPM as it travels within the rack structure. All Interroll speed controllers require no maintenance and are proven in thousands of installations worldwide.

TANDEM SPEED CONTROLLER

- Designed for use with Interroll Skate Wheel and Pallet Wheel Flow
- Indirect pallet contact with speed controller ensures longer product life
- Available in light, medium and heavy-duty
- Simple drop in design for quick installation and replacement



DIRECT MOUNT

- Used for Interroll Skate Wheel and Pallet Wheel Flow
- Space-saving design can result in additional storage
- Available in light, medium and heavy-duty



FULL WIDTH ROLLER

- Designed for use with Interroll Pallet Roller Flow
- Simple drop in design for quick installation and replacement
- 3.15" diameter limits overall height and can result in additional storage
- Available with either knurling or lagging to provide additional friction
- Shortest between frame width available 9"



UNDER SLUNG

- Used for Interroll Pallet Roller Flow as well as conventional gravity conveyor
- Available in light, medium and heavy-duty
- Can be used for roller centers up to 5"

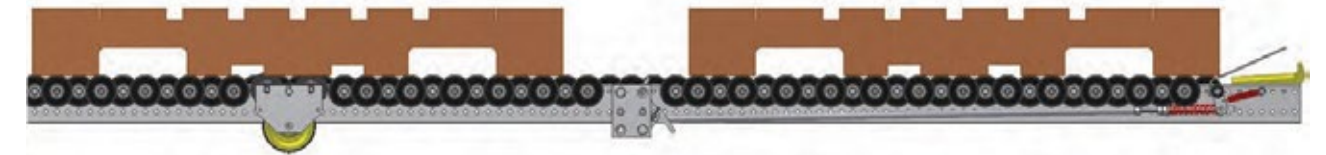


Interroll Pallet Separators

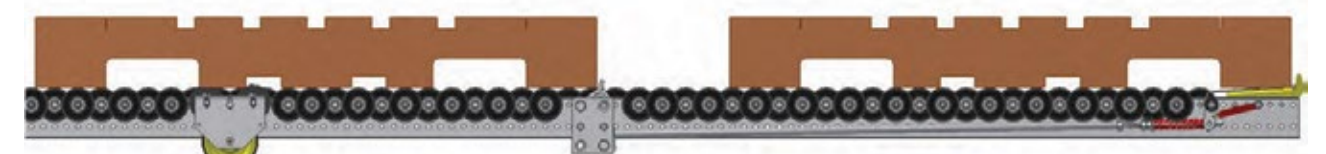
Pallet Separators facilitate the removal of pallets by hand or lift truck by holding back all subsequent pallets in a lane until the first pallet is completely removed.

Operation of the pallet separator can either be manual or automatic, depending on the application. As the first pallet moves into the final position a toggle lever mechanism is actuated which raises a stop. This stop allows a gap of approximately 12" to be created so the first pallet can be removed with zero line pressure. Once removed the mechanism automatically or manually releases the next pallet to start the process again. In deeper applications multiple automatic separators are required.

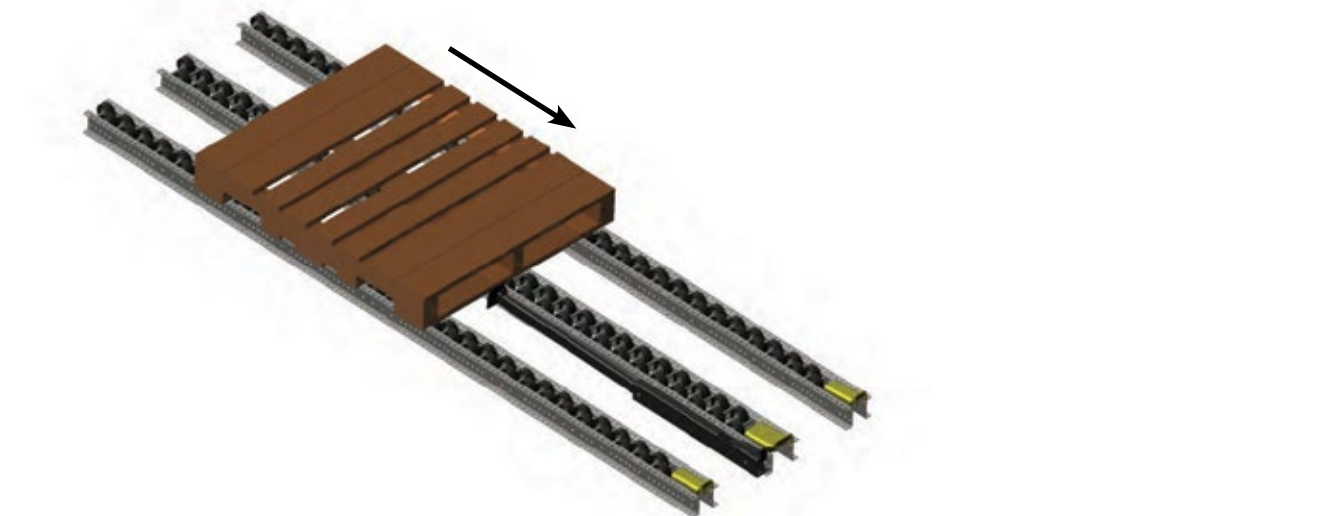
PALLET SEPARATOR DEACTIVATED



PALLET SEPARATOR ACTIVATED



FOOT-OPERATED MANUAL PALLET SEPARATOR



Key Rack Design Guidelines for Interroll Pallet Flow

General pallet condition	No broken or missing boards, exposed nails or varying moisture levels
Typical slope	.375" to .4375" per lineal foot, subject to pallet testing
Typical side clearance between pallet and upright	1" to 2" subject to load stability and overhang
Typical lift-off height between load and beam above	4" to 5"
Rack depth	Overall combined pallet depth plus 6" or 12" for each pallet separator
Maximum beam deflection	L/240
Maximum front-to-back beam spacing (unsupported rail)	48" to 60" subject to load weight
Please contact Interroll for track installation details	

Request for Proposal Form

Date

Company name

Contact

PhoneFax

Email

Address

CityStateZip

Design Criteria

Pallet information	Load Weight (including pallet weight)	Pallet Size
# Pallets per lane	Minimum	Pallet Depth
# Lanes	Maximum	Pallet Width
		Pallet Height

Load Size	Operating Environment
Load Depth	<input type="checkbox"/> Ambient
Load Width	<input type="checkbox"/> Chiller
Load Height (including pallet)	<input type="checkbox"/> Freezer
Load Secured <input type="checkbox"/> Yes <input type="checkbox"/> No	Temperature °F °C

Please check the pallet type being used, bottom board view.



Material

Manufacturer

There are bottom boards" wide.

Bottom deckboards in relation to travel:

☐ Parallel☐ Perpendicular

Accessories

Pallet Separators ☐ Yes ☐ No

Type ☐ Automatic ☐ Manual

Pawl Stop (anti back-up brackets) ☐ Yes ☐ No

Please provide drawing of rack system/layout if available.

General Description of Operation/Application



Interroll Atlanta LLC
159 Corporate Dr North
Hiram, GA 30141
+1 (770) 799 4210
atl.sales@interroll.com

CARTON FLOW
DESIGN CRITERIA SHEET

DRAWING NUMBER:ATL -

SALES ORDER NO.:

CUSTOMER INFORMATION

Customer:	End User Information:	Interroll:
Name:	Name:	Due Date:
Contact:	Contact:	Initiator:
Telephone :	Telephone :	Date:
E-Mail address(s) for final approval of drawings:		

DESIGN CRITERIA

Carton Information:

# Cartons/Lane:	<u>Load Weight</u>	<u>Carton Size</u>	<u>Carton Material</u>
# Lanes Wide:	Maximum:	Carton Depth:	
# Levels:	Minimum:	Carton Width:	
	LBS/SQ.FT	Carton Height:	

System Parameters

<u>System Type</u>	<u>Slope</u>	<u>Beam Type</u>
Versi Flow		Box Beam:
Floway	<u>Rack Span</u>	Structural Beam:
Flostar		Step Beam Size: A B C D E
<u>Rack Size</u>		
Rack Depth:		

Versi Flow Information:

<u>Nominal Width</u>	<u>Roller Pitch</u>	Length:
<input type="checkbox"/> 12-1/2"	<input type="checkbox"/> 2"	
<input type="checkbox"/> 15-3/8"	<input type="checkbox"/> 3"	
	Brackets: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Floway Information:

<u>Tracks Per Lane</u>	<u>Tray Type</u>	Width:	<u>Accessories</u>
	Tray Angle:	Depth:	Onload Plate:
	Tray Depth:		Entry Guides:
			Tube Guides:
			Braking Plate:
Brackets: <input type="checkbox"/> Yes <input type="checkbox"/> No			

Flostar Information:

<u>Nominal Width</u>	<u>Roller Pitch</u>	<u>Tray Type</u>
<input type="checkbox"/> 6"	<input type="checkbox"/> 1" (Items < 6")	Tray Angle:
<input type="checkbox"/> 9"	<input type="checkbox"/> 2" (Most App.)	Tray Depth:
<input type="checkbox"/> 12"	<input type="checkbox"/> 3" (Items > 12")	
<input type="checkbox"/> 15"		Brackets: <input type="checkbox"/> Yes <input type="checkbox"/> No
	Length:	

Attached

Interroll Quote:	Rack Drawing:
Customer Drawings:	Copy of P.O.:

Additional Information:



About Interroll

Established in 1959, Interroll has grown to become the world's leading supplier of key equipment for material handling. Whether you're handling boxes, pallets, parcels or soft goods, no other supplier has such a comprehensive range of solutions on offer.

This is why system integrators, OEMs and operators choose Interroll as a trusted partner for material handling installations, worldwide.

Interroll's global reach ensures quick delivery and superior after-sale service for customers, no matter where they are. By helping increase our customers' efficiency, we boost their competitiveness in today's high-stress marketplace.

Interroll Atlanta LLC
159 Corporate Dr N
Hiram, GA 30141
+1 (855) 869 1828
atl.sales@interroll.com

Interroll Canada Ltd.
1201 Gorham Street
Newmarket, Ontario L3Y 7V1
Canada
Phone: +1 905 727 33 99
ca.sales@interroll.com

interroll.us

Interroll reserves the right to modify the technical features of its products at any time. Technical information, volumes, data and features are only rough guidelines.

© Interroll 2016