

**Pallet & Carton Flow Solutions** 

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## **Carton Wheel Flow**

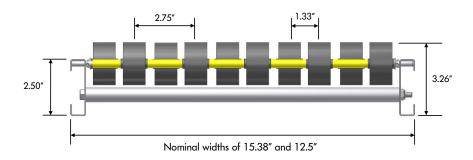
# > Interroll Versi Flow Flexibility at its best

### **Product Features**

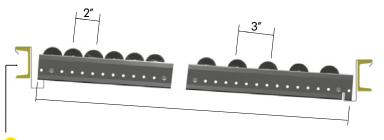
- Allows first-in first-out storage and picking
- Separates picking and replenishment activities
- Allows more inventory to be held at the pick face, greatly reducing replenishment cycles
- Additional pick faces can be added with no additional labor or equipment costs
- Suitable for varying load sizes
- 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
- 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



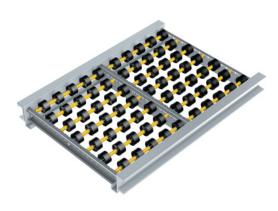
### **Dimensions**



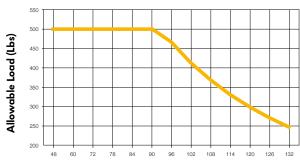
### Wheel pitch 2" or 3" centers



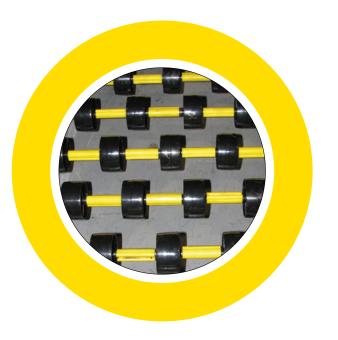
Mounting brackets are compatible with step beams, box beam and structural beams.











## **Carton Wheel Flow**

## **Interroll Floway II**

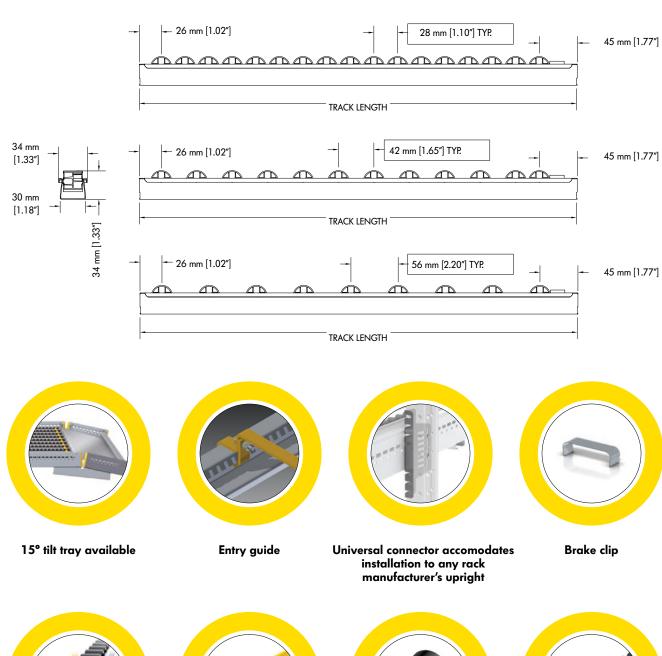
Higher picking rates and faster ROI

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

- Solid axle offers smoother 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
- Options: lane dividers, end stops, brake clips
- Wheel colors: standard black



#### **Dimensions**











Redesigned y-shaped tracks improves stability and prevents deflection

Full length guide

Black wheels standard

Wheel track with back stop

## **Carton Roller Flow**

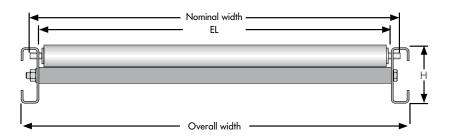
# > Interroll Flostar Smooth picking operations

#### **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
- Adjustable front and rear support brackets achieve required flow angle
- Operating temperature -18.5°F to 105°F



#### **Dimensions**

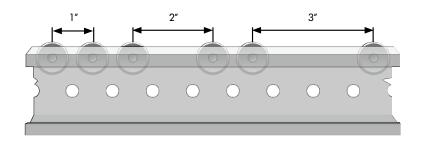


The width of items to be conveyed can be 1.5 times the nominal track width

Nominal widths = 6", 9", 12" and 15" EL = 5", 8", 11" and 14"

Overall widths = 6.375", 9.375", 12.375" and 15.375"

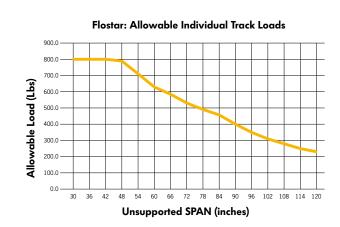
**I** = Interroll offers a range of channel profiles to meet your needs



Roller pitch 1" = Items shorter than 6"

**Roller pitch 2"** = Suitable for the majority of applications

**Roller pitch 3"** = Items longer than 12"





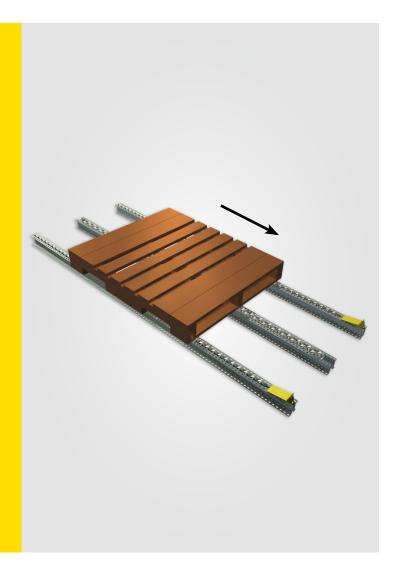
# **Pallet Flow**

### **Interroll Skate Wheel**

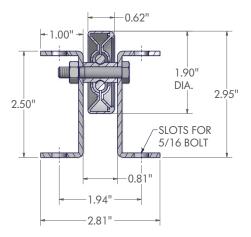
Inexpensive solution for picking applications

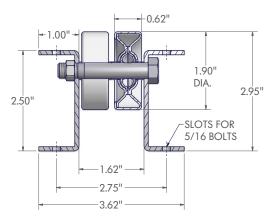
### **Product Features**

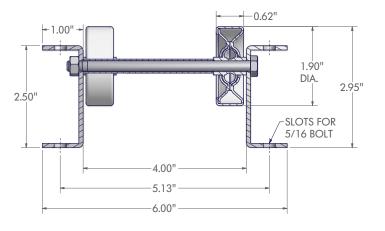
- Often used in multi-tier modules
- Suitable for 2 4 deep pallet storage only
- 1.9" diameter wheels with sealed steelbearings on 1.5", 2" or 3" centers
- 2500 lbs. individual pallet capacity
- Speed controllers can be mounted in 4" BFR tracks
- Pallet stops standard
- Optional pallet separators available
- 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**







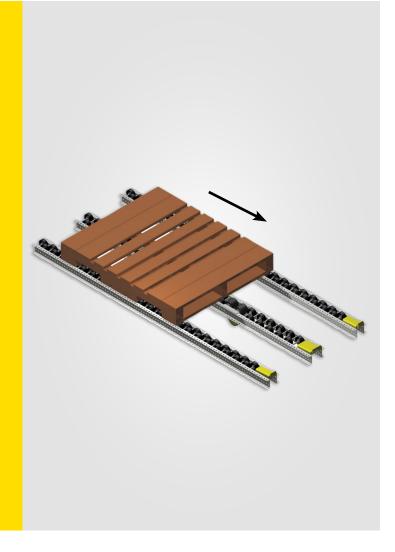
## **Pallet Flow**

### > Interroll Wheel Flow

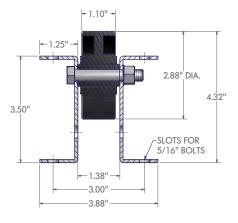
Designed for deep lane storage applications

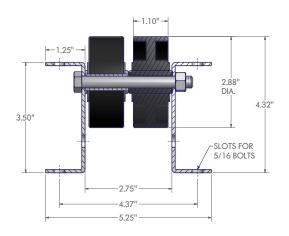
#### **Product Features**

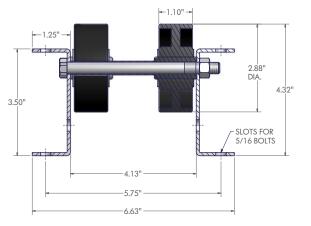
- Used for fast moving, date sensitive and perishable SKU's
- Systems installed up to 32 pallets deep
- 2.88" diameter wheels with sealed galvanized steel bearings on 2" or 3" centers
- Wheels offered in both polycarbonate and high impact aluminum
- Speed controllers can be mounted in 4.13" BFR tracks
- Pallet stops standard
- Optional pallet separators
- Pawl stops (anti-backup) available to prevent backward flow
- 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.

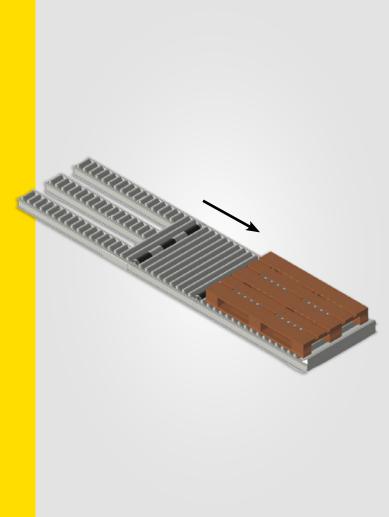
## **Pallet Flow**

### Interroll Roller Flow

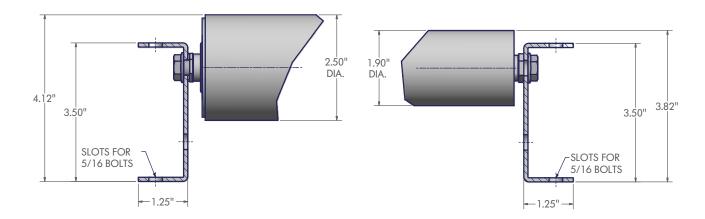
Best for euro, plastic and steel pallets

### **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**





### BSC - Basic Speed Controller for Pallet Flow

# MSC80 - Magnetic Speed Controller for Pallet Flow

### 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"









### **Safety First!**

The new Interroll Magnetic Speed Controller for pallet flow lanes is the ultimate solution to increase safety in warehousing operations.

### FLEXIBLE

- One product to cover the full range of applications
- Able to handle pallet weights from 55 lbs. to 2,750 lbs.
- Designed to work with LIFO applications thanks to the "One Way" function
- Ideal for retrofit projects due to its unique fixing solution on side profile



### SAFE

- Optimal braking effect all along its lifetime
- No risk to damage goods: maintains pallets under control at constant speeds (less than 60 fpm)
- 5 years warranty for standard buffer applications
- Qualified with 50,000 cycles with high throughput



### PRODUCTIVE

- High throughput for dispatch lanes up to 90 pallets/hour
- Continuous throughput: 1 pallet/min
- Thanks to its wearless technology (Eddy current), there is no run-in period to reach the optimal braking effect and the speed controller's lifetime is dramatically increased
- Always operational no down time!



# InterrollPallet 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.

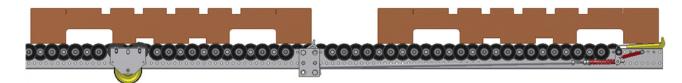
Once removed the mechanism automatically or manually releases the next pallet to start the process again.

In deeper applications multiple automatic separators are required.

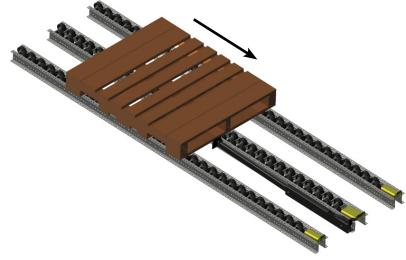
AUTOMATIC PALLET SEPARATOR - DEACTIVATED

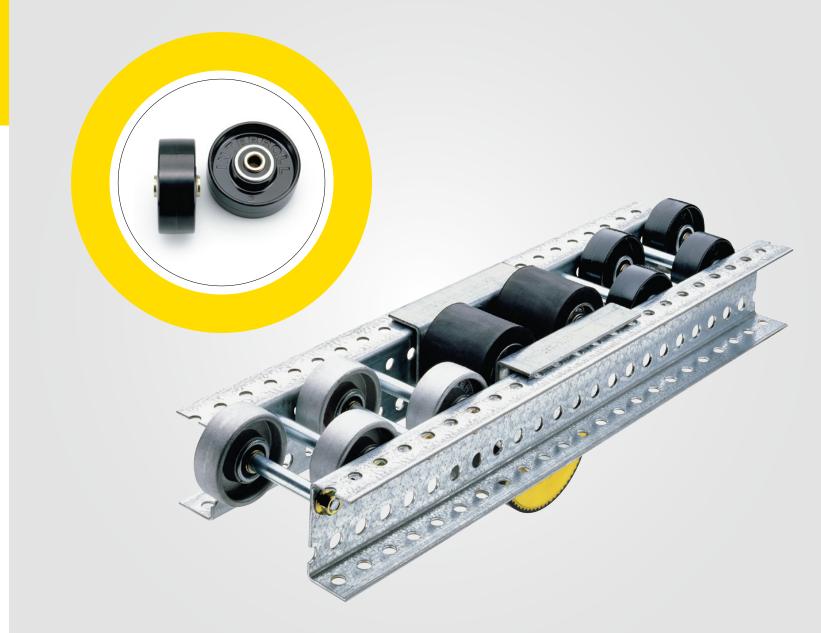


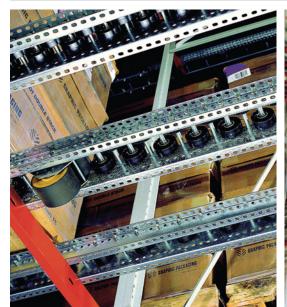
**OUTOMATIC PALLET SEPARATOR - ACTIVATED** 



MANUAL FOOT-OPERATED PALLET SEPARATOR



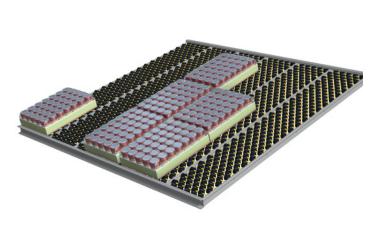














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Interroll Atlanta LLC - 159 Corporate Drive North - Hiram GA, 30			0141 <u>TPL NU</u>			
(770) 799-4210 - Fax: (404) 745-8442 - atl.sales@interroll.com		DRAWI	DRAWING NUMBER:			
Customer informat	tion					
Customer		End user		Interroll		
Name:	Name:					
Contact:	Contact:			Initiator:		
Telephone:	Telephone:			Date:		
E-Mail address(s) for f	final approvina of dr					
•	11 0	Ŭ				
Pallet information		1	D. II . C.			
Pallet information # Pallet/Lane:	Load Weight  Maximum:		Pallet Size	Load Si		
			Pallet Depth:	Load De Load Wi	·	
# Lanes:	Mini	mum:	Pallet Width:			
			Pallet Height:		ight (including pallet):	
				Load Se	cured:	
Please check the palle	et type (bottom board	d view).	Please indicate th	e direction of flow by	an arrow.	
Please check the pallet type (bottom board view).			,			
8/1/2			G - 4			
GMA Pallet	☐ Block Pallet	Single Face Pallet	9 Point Pallet	Slave Pallet	Other	
Material:			There are	bottom k	ooards " wide.	
Manufacturer:			Bottom deckboar	ds in relation to travel:		
				i i el bellalcola		
			raraner			
System parameters	s		Turuller			
-	s Slope	Temperature F° or C°	Lane	B.F.R.	Centres	
System parameters System type  Skatewheel		Temperature F° or C° Ambient:	<b>Lane</b> Lane Length:			
System type	Slope		Lane	B.F.R.	Centres Outer Track: Center Track:	
System type  Skatewheel	<b>Slope</b> ☐ 7/16"	Ambient:	<b>Lane</b> Lane Length:	<b>B.F.R.</b> Outer Track:	Centres Outer Track:	
System type  Skatewheel  Wheel Flowl Roller Flow	Slope ☐ 7/16" ☐ 3/8"	Ambient: Freezer:	Lane Lane Length: Rail Height:	B.F.R. Outer Track: Center Track:	Centres Outer Track: Center Track:	
System type  Skatewheel Wheel Flowl Roller Flow Diameter:	Slope  7/16" 3/8"  1/2"	Ambient: Freezer: Cooler:	Lane Lane Length: Rail Height: Max Rail: Impact Length:	B.F.R. Outer Track: Center Track: Roller:	Centres Outer Track: Center Track: Roller:	
System type  Skatewheel  Wheel Flowl Roller Flow  Diameter:  Pallet Retainer	Slope 7/16" 3/8" 1/2" Other:	Ambient: Freezer: Cooler: Humidity:	Lane Lane Length: Rail Height: Max Rail: Impact Length: Brakes # per Lan	B.F.R. Outer Track: Center Track: Roller:	Centres Outer Track: Center Track:	
System type  Skatewheel Wheel Flowl Roller Flow  Diameter:  Pallet Retainer  Pallet Separators:	Slope  7/16" 3/8"  1/2"	Ambient: Freezer: Cooler:	Lane Lane Length: Rail Height: Max Rail: Impact Length:	B.F.R. Outer Track: Center Track: Roller:	Centres Outer Track: Center Track: Roller:	
System type  Skatewheel Wheel Flowl Roller Flow Diameter:	Slope 7/16" 3/8" 1/2" Other:	Ambient: Freezer: Cooler: Humidity:	Lane Lane Length: Rail Height: Max Rail: Impact Length: Brakes # per Lan	B.F.R. Outer Track: Center Track: Roller:	Centres Outer Track: Center Track: Roller:	
System type  Skatewheel Wheel Flow Roller Flow Diameter:  Pallet Retainer Pallet Separators: Location in Lane:	Slope 7/16" 3/8" 1/2" Other:	Ambient: Freezer: Cooler: Humidity:	Lane Lane Length: Rail Height: Max Rail: Impact Length: Brakes # per Lan	B.F.R. Outer Track: Center Track: Roller:	Centres Outer Track: Center Track: Roller:  Wedge Stops  Skatewheel Wheel Flace	
System type  Skatewheel Wheel Flow Roller Flow Diameter:  Pallet Retainer Pallet Separators: Location in Lane:	Slope 7/16" 3/8" 1/2" Other:	Ambient: Freezer: Cooler: Humidity:	Lane Lane Length: Rail Height: Max Rail: Impact Length:  Brakes # per Lan Heavy / Medium	B.F.R. Outer Track: Center Track: Roller:	Centres Outer Track: Center Track: Roller:  Wedge Stops  Skatewheel Wheel Flace	
System type  Skatewheel Wheel Flow Roller Flow Diameter:  Pallet Retainer Pallet Separators: Location in Lane:	Slope	Ambient: Freezer: Cooler: Humidity:	Lane Lane Length: Rail Height: Max Rail: Impact Length:  Brakes # per Lan Heavy / Medium	B.F.R. Outer Track: Center Track: Roller:	Centres Outer Track: Center Track: Roller:  Wedge Stops  Skatewheel Wheel Flace	
System type  Skatewheel Wheel Flow Roller Flow Diameter:  Pallet Retainer Pallet Separators: Location in Lane:	Slope  7/16" 3/8" 1/2" Other:  Automatic	Ambient: Freezer: Cooler: Humidity:  Manual	Lane Lane Length: Rail Height: Max Rail: Impact Length:  Brakes # per Lan Heavy / Medium  Tandem	B.F.R. Outer Track: Center Track: Roller:  e: / Light Under-*	Centres Outer Track: Center Track: Roller:  Wedge Stops  Skatewheel Wedge Wedge Wedge Wedge	
System type  Skatewheel Wheel Flow Roller Flow Diameter:  Pallet Retainer Pallet Separators: Location in Lane:	Slope  7/16" 3/8" 1/2" Other:  Automatic	Ambient: Freezer: Cooler: Humidity:	Lane Lane Length: Rail Height: Max Rail: Impact Length:  Brakes # per Lan Heavy / Medium	B.F.R. Outer Track: Center Track: Roller:	Centres Outer Track: Center Track: Roller:  Wedge Stops  Skatewheel Wedge Wheel Flag Whe	
System type  Skatewheel Wheel Flowl Roller Flow  Diameter:  Pallet Retainer  Pallet Separators:	Slope  7/16" 3/8" 1/2" Other:  Automatic	Ambient: Freezer: Cooler: Humidity:  Manual	Lane Lane Length: Rail Height: Max Rail: Impact Length:  Brakes # per Lan Heavy / Medium  Tandem	B.F.R. Outer Track: Center Track: Roller:  e: / Light Under-*	Centres Outer Track: Center Track: Roller:  Wedge Stops  Skatewheel Wedge Roller Flow Roller Flow Roller Flow	
System type  Skatewheel  Wheel Flow  Roller Flow  Diameter:  Pallet Retainer  Pallet Separators:  Location in Lane:	Slope  7/16" 3/8" 1/2" Other:  Automatic	Ambient: Freezer: Cooler: Humidity:  Manual	Lane Lane Length: Rail Height: Max Rail: Impact Length:  Brakes # per Lan Heavy / Medium  Tandem	B.F.R. Outer Track: Center Track: Roller:  e: / Light Under-*	Centres Outer Track: Center Track: Roller:  Wedge Stops  Skatewheel Wedge Wedge Roller Flow Welded Full Width Full Width	
System type Skatewheel Wheel Flow Roller Flow Diameter: Pallet Retainer Pallet Separators: Occation in Lane:  Pawl Stop  Attached	Slope  7/16" 3/8" 1/2" Other:  Automatic	Ambient: Freezer: Cooler: Humidity:  Manual	Lane Lane Length: Rail Height: Max Rail: Impact Length:  Brakes # per Lane Heavy / Medium  Tandem  Direct	B.F.R. Outer Track: Center Track: Roller:  e: / Light Under-*	Centres Outer Track: Center Track: Roller:  Wedge Stops  Skatewheel Wedge Wedge Roller Flow Welded Full Width Full Width	
System type  Skatewheel Wheel Flow Roller Flow Diameter:  Pallet Retainer Pallet Separators: Location in Lane:	Slope  7/16" 3/8" 1/2" Other:  Automatic	Ambient: Freezer: Cooler: Humidity:  Manual	Lane Lane Length: Rail Height: Max Rail: Impact Length:  Brakes # per Lan Heavy / Medium  Tandem	B.F.R. Outer Track: Center Track: Roller:  e: / Light Under-*	Centres Outer Track: Center Track: Roller:  Wedge Stops  Skatewheel Wedge Wedge Roller Flow Welded Full Width Full Width	



## Carton Flow Design Criteria Sheet

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	(770) 799-4210 - Fax: (404) 745-8442 - atl.sales@interroll.com		RDER NO.:		
Customer information					
Customer	End user		Interroll		
Name:	Name:		Due date:		
Contact:	Contact:		Initiator:		
Telephone:	Telephone:		Date:		
E-Mail address(s) for final approving of dr	awings:				
Design Criteria					
Carton information	Load Weight		Carton Size	Carton Material	
# Cartons/Lane:	Minimum:		Carton Depth:		
# Lanes Wide:	Maximum:		Carton Width:		
# Levels:	LBS/SQ.FT:		Carton Height:		
System parameters					
System type	Rack Depth:	Beam Ty	pe		
Versi Flow	Rack Span:	Box Beam	:		
Floway		Structural	Beam:	-	
Flostar		Step Bear	n Size: A	E	
	<del> </del>		В		
Slope:	(inside clear)		С		
	K	<b>→</b>	D		
			E		
Versi Flow information					
Nominal width	Roller Pitch:	Lenght:			
12-1/2"	<u> </u>				
		Brackets:	Yes	□ No	
	_		<del>-</del>		
Floway information					
Tracks per Lane:	Tray Type	Width:	Accessories:		
	Tray Angle:	Depth:	Onload Plate:		
	Tray Depth:		Entry Guides:		
			Tube Guides:		
Brackets: Yes No			Braking Plate:		
Flostar information					
Nomimal Width	Roller Pitch	Lenght:	Tray Type		
<u> </u>	☐ 1" (items < 6")		Tray Angle:		
9″	2" (most app.)		Tray Depth:		
☐ 12″	3" (items > 12")				
15"		Brackets:	Yes	☐ No	
Attached	nterroll Quote:		Rack Drawings:		
Attached Interroll Quote:		Rack Drawings:			
		Rack Drawings: Copy of P.O. :			
Interroll Quote:					

### **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.

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