Interroll Dynamic Storage
Pallet & Carton Flow Solutions
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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
• 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 Wheel Flow**

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 shelving.
- Options: lane dividers, end stops, brake clips.
- Wheel colors: standard black.

**Interroll Floway II**

Higher picking rates and faster ROI.

- 15° tilt tray available.
- Entry guide.
- Universal connector accommodates installation to any rack manufacturer’s upright.
- Brake clip.
- Redesigned y-shaped tracks improve stability and prevent deflection.
- Full length guide.
- Black wheels standard.
- Wheel track with back stop.

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**Dimensions**

<table>
<thead>
<tr>
<th>TRACK LENGTH</th>
<th>TRACK LENGTH</th>
<th>TRACK LENGTH</th>
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<tr>
<td>26 mm [1.02&quot;]</td>
<td>26 mm [1.02&quot;]</td>
<td>26 mm [1.02&quot;]</td>
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<td>28 mm [1.10&quot;] TYP</td>
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<td>30 mm [1.18&quot;]</td>
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<td>34 mm [1.33&quot;]</td>
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<td>45 mm [1.77&quot;]</td>
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<td>45 mm [1.77&quot;]</td>
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</table>

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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
• 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”
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”

Flostar: Allowable Individual Track Loads

Unsupported SPAN (inches) vs. Allowable Load (Lbs)
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 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
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
• 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

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
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.

**Safety First!**

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

**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”

**MSC80 - Magnetic Speed Controller for Pallet Flow**

**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!

**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

**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

**BSC - Basic Speed Controller for Pallet Flow**

**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!
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**
- **Automatic Pallet Separator - Activated**
- **Manual Foot-Operated Pallet Separator**
There are bottom boards "wide.

Bottom deckboards in relation to travel:

Rack Drawings:

Copy of P.O.:

Interroll Dynamic Storage Design Criteria

Customer information

<table>
<thead>
<tr>
<th>Customer</th>
<th>End user</th>
<th>Interroll</th>
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<tbody>
<tr>
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<td>Telephone:</td>
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E-mail address(es) for final approving of drawings:

Pallet information

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<th>Load Weight</th>
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<tr>
<td># Pallet/Lane:</td>
<td>Maximum:</td>
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<tr>
<td># Lanes:</td>
<td>Maximum:</td>
<td>Minimum:</td>
<td>Pallet Height:</td>
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Please check the pallet type (bottom board view):

- GMA Pallet
- Block Pallet
- Single Face Pallet
- Other

Material:

Manufacturer:

System parameters

System type | Slope | Temperature °F or °C | Lane | B.F.R. | Centres |
<table>
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Diameter: Other | Humidity: Impact Length: |

Pallet Retainer:

Pallet Retainer:

Location in Lane:

Material:

Manufacturer:

Pallet Separators:

Location in Lane:

Attached

Interroll Quote:

Customers Drawings:

Back Drawings:

Copy of B.O.D.

Additional Information
## Carton Flow Design Criteria Sheet

**Customer information**

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E-mail address(es) for final approving of drawings:

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## Design Criteria

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<td>Nominal Width</td>
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## System parameters

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## Versi Flow information

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## Floway information

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|                 | Tray Angle| Depth:| Orchestrator:
|                 | Tray Depth| Entry Guides:
|                 | Tube Guides:

Brackets: Yes, No

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## Flostar information

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<th>Tray Type</th>
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| 4"            | 1" [items < 6"] |       | Tray Angle:
| 5"            | 2" [most app.]  |       | Tray Depth:
| 12"           | 3" [items > 12"]|       |         |

Brackets: Yes, No

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<td>Interroll Quote:</td>
<td>Rack Drawings:</td>
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<td>Customers Drawings:</td>
<td>Copy of PO:</td>
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## 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.

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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.

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