FIND YOURS.

3 Ways to Expand Your E-commerce Sortation Capacity

Presented by:
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Presenter

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Conveyors and Line Sortation
Honeywell Intelligrated
Objectives

How has e-commerce changed the material handling industry?
1. Examples of quick to deploy solutions
2. Examples of scalable solutions
3. Examples of new technologies to enable the high throughput
How has e-commerce changed the material handling industry?
What has Changed?

• What we pick
• How we consolidate orders
• Where we ship
What Does That Mean for Sortation?

• Smaller & more irregular items
• Difficult to convey, identify & sort
• Many more transactions & items to process for the equivalent sales volume
• Many more shipping destinations
• Items will be processed in an MHE system again
# Conveyor Technologies

<table>
<thead>
<tr>
<th>Skatewheel Conveyor</th>
<th>Belted Zones</th>
<th>Modular Belt</th>
<th>2” Roller Center</th>
<th>3” Roller Center</th>
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<tbody>
<tr>
<td>Transportation Conveyors</td>
<td>Accumulation Conveyors</td>
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**FIND YOUR WOW**
Conveyor Technologies

Transportation Conveyors

Skatewheel Conveyor
3" Roller Center
2" Roller Center
Modular Belt
Belted Zones

Accumulation Conveyors

Skatewheel Conveyor
3" Roller Center
2" Roller Center
Modular Belt
Belted Zones
## Sortation Technologies

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<th>Modular Belt</th>
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<td>High Density</td>
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What are some examples of quick to deploy solutions that will help expand sortation capacity?
Quick to Deploy

- Automated data collection
Quick to Deploy

- Voice directed operations
Quick to Deploy

- Labor management

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<td><img src="image5.png" alt="Sweeping Sorter" /></td>
<td><img src="image6.png" alt="Sliding Shoe" /></td>
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<td><img src="image10.png" alt="Cross Belt" /></td>
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What are some examples of scalable solutions to help expand sortation capacity?
Scalable Solutions

- Secondary sortation after primary sortation

Primary Strip Belt Sorter + Secondary Put Wall Sort
Scalable Solutions

- Secondary sortation after primary sortation

Primary Sliding Shoe Sorter
+ Secondary MDR Right Angle Transfers

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Scalable Solutions

- Secondary sortation after primary sortation

Primary Tilt Tray Sorter
+ Secondary Put to Cart
What are some examples of new technologies that enable high throughput capacities?
High Rate E-commerce Solutions

• Singulated flow or bulk flow to singulators

• Vision based or mechanical based systems
Advanced Control Methods

• High rate motion control gapping

• Virtual sorters
High Rate E-commerce Solutions

- High Density Linear Sortation
  - Rates in the 5k to 15k per hour range
  - Higher rates with higher precision gapping
  - Optimized for e-commerce packaging
  - Optimized to maximize destinations in small footprint
3 Ways to Expand Sortation Capacity

• E-commerce has changed the material handling industry
  • Smaller, more difficult items to handle
  • Many more items to sort
  • Many more sort destinations

• Expanding sortation capacity
  1. Quick to deploy solutions
     • Automated data collection, Voice, Labor Management
  2. Scalable solutions
     • Secondary sorts at the end of primary sorts
  3. New technologies for high throughput
     • Singulated flow vs bulk to singulators
     • Advanced control methods
     • High density linear solutions

QUESTIONS?
For more information

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