Sorting It Out: Modern Sortation in the Fulfillment Process

Presented by:

Dave Lodwig
Agenda

- Concepts of Sortation/Consolidation
- Technology Overview
- Applications
  - Traditional
  - New and Alternative
- Operational Benefits and Savings
- Discussion of Your Operation
Concepts of Sortation/Consolidation

- Increase the efficiency of order picking operations

- Allow different areas to pick parts of an order at the same time
  - Segments of the same order are picked simultaneously from different zones and are consolidated by sortation
Full Case & Unit Sortation

• Full Case

• Units
Case Sortation Technologies

• Pushers
  – Up to 30 cartons per minute (cpm)
  – Cases only
  – Forgiving to poor quality cartons

• Wheel and roller diverters
  – 30° diverts up to 150 cpm
    • Cases only
    • Less forgiving on quality
  – 90° diverts up to ~50 cpm
    • Cases and some bags/envelopes
    • More forgiving on quality
Case Sortation Technologies

• Shoe Sorters
  – 400+ cpm
  – Very gentle handling
  – Wide range of sizes

• Tilt Tray & Crossbelt
Unit Sortation Technologies

• Tray Sorters
  – 8,000-10,000 UPH (20,000+ for small product)
  – Handle wide range of products
  – Some can handle cases and units
  – Very flexible configurations
Unit Sortation Technologies

• Crossbelt Sorter
  – 8,000-10,000 UPH
  – Handle wide range of products
  – Handles cases and units
Hybrid Technologies

• Pocket Systems
  – Up to 10,000 uph
  – Handle wide range of products
  – Handles cases and units

• Plastic Belt Conveyor
  – 50+ UPM
  – Handles cartons & units
  – Merge, induct, & sort can be combined
Hybrid Technologies

- Pocket System

Video of Pocket System
SORTATION APPLICATIONS
Receiving

- Floor loaded containers
- Crossdocking
Split Case Picking

Video of Tray Sorter
Split Case Picking

Tilt Tray: Hardgoods Video
Split Case Picking
Order Consolidation

- Manual “Put-to-Light”
Packing
Shipping
Combination Sortation

Graphic of Combination Tilt tray Sorter (Units to packing, Cases to shipping)
Order Consolidation
For More Information:

Speaker email: dlodwig@conveyco.com
Website: www.conveyco.com

Speaker #2 email: speaker@company.com
website: www.sponsorcompany.com

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