Cheatography

Conveyor & Sortation Equipment Cheat Sheet by [deleted] via cheatography.com/2754/cs/18018/

Introduction; From A to B to ERP

Conveyors are the primary and most cost-effective means of moving cartons, totes and packages. While conveyors themselves are fairly simple, their ability to communicate with one another and related systems is becoming increasingly sophisticated.

Source: https://www.mmh.com/article/conveyors_sortation_technologies_move_further_down_the_line

I. Hardware

- A. Conveyor
 - 1. Non-powered
 - a. Roller
 - b. Wheel
 - c. Chute
 - 2. Powered
 - a. Transportation
 - (1) Belt
 - (2) Roller
 - (3) Modular belt
 - b. Accumulation
 - (1) Minimum pressure
 - (2) Zero pressure
 - (3) Non-contact

B. Sorters

- 1. Line sorters (e.g., sliding shoe)
- 2. Loop sorters (e.g., bomb bay, cross-belt, tilt tray, etc.)

II. Software

- A. Equipment level control
- 1. Device level control (e.g., variable frequency drive)
- 2. Conveyor level control (e.g., zone controllers on accumulation conveyor)
- 3. Sub system level control (e.g., 5 to 1 conveyor merge and sorter)
- B. Order processing control
- 1. Storage
- 2. Planning
- 3. Routing
- 4. Picking
- 5. Wave management
- 6. Labor management

What does it look like when done right?

1. Material flow – An ideal materials handling system is designed to accommodate fluctuations in activity throughout the day and business levels throughout the year.

2. Information flow – An ideal connected distribution center gets the right information to the right people at the right time.

- a. Not too much information
- b. Not the wrong information
- c. Not to the wrong people

Conveyor Belts



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