Applications

Storage diverter

- 170mm height from the bottom to the conveyor surface allows building the multi-layer line.
- No pneumatic
- Easy compact design

Gentle transfer of fragile goods

- Smooth and safe transfer without pop up movement.

Sorter (Sorting device)

- Flat Right Angle Transfer (F-RAT)
- Achieves high-speed sorting with roller conveyors.

Divert of stacked empty trays

- Stable divert of highly stacked trays.

Product specifications

<table>
<thead>
<tr>
<th>Width</th>
<th>Length</th>
<th>Roller diameter</th>
<th>Overall width</th>
<th>Overall length</th>
<th>Height</th>
<th>Belt / Roller transfer speed</th>
<th>Belt / Roller switch stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>50 mm (2.0&quot;)</td>
<td>379 mm (14.9&quot;)</td>
<td>756 mm (29.6&quot;)</td>
<td>170 mm (6.7&quot;)</td>
<td>17, 60, 90 m / min*</td>
<td>10 mm (0.4&quot;)</td>
</tr>
</tbody>
</table>

Belt / Roller transfer speed

- 17, 60, 90 m / min*

Belt / Roller switch stroke

- 10 mm (0.4")

The speed changes can be done depending on the sorting capacity. Consult us for more information.

Technology for tomorrow

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Flat-Right Angle Transfer that can transfer products without changing the conveying level.

**F-RAT-s300**

Flat-Right Angle Transfer

**Transfer movement**

- **STEP 1**
  - Belt transfer direction
- **STEP 2**
  - Belt / Roller transfer direction change
- **STEP 3**
  - Roller transfer direction

通过积累条件，F-RAT的输送量可能变化。

通过积累条件，F-RAT的输送量可能变化。

- **Rollers Sink**
  - The movement of the normal transfer
    - Belt part: Up (Transfer level)
    - Roller part: Sink
  - The movement of the right transfer
    - Belt part: Sink
    - Roller part: Up (Transfer level)

**Direction change by cam drive**

- Roller or Belt transfer switching is done by eccentric cam rotation.

**Transfer Direction**

- Belt transfer
- Roller transfer
- Eccentric cam

**Advantages of using F-RAT**

1. **Energy Saving**
   *Run-On-Demand* operation of F-RAT and its unique design using no pneumatic saves energy.

2. **Creating Comfortable Environment**
   24V DC operation with no pneumatic creates comfortable environment (Silent and less vibration)

3. **Space Saving**
   Low profile (170mm from the bottom to the conveyor surface) design allows various applications, such as low floor line, the multi-layer line, and conveyance of stacked products, etc...

4. **Simple Structure**
   Simple structure using only three MDRs (Motor-Driven Roller)

5. **Easy Installation / Wiring**
   Eliminates the need of the level adjustment with the adjacent conveyors, thanks to unique design transferring products without changing the conveying level. Plug & play simplified wiring.

6. **Expandable**
   Easy to expand the line because one module performs both straight forwarding and diverting.

**Throughput**

- **Conditions:**
  - F-RAT: Size B: 758mm (29.8") x 497mm (19.6")
  - Article: Carton box 350mm wide x 405mm long, 30kg

Throughput may vary depending on accumulation conditions in upstream zone of F-RAT.

- The throughput in the graph is only for reference, not guaranteed performance.
- Stopping distance of the product and transfer throughput varies depending on product size, its materials and transfer speed.