ItemUnit-Tamper Evident

The Traxeed ItemUnit-Tamper Evident is a modular system for online coding, serialization and verification of single items in the pharmaceutical packaging process.

The ItemUnit-Tamper Evident combines a precise product transport (four lane conveyors) with printing, vision control, tamper evident seal application, reject system and the batch controller. Configurable software features with integrated label designer and automatic vision configuration based on the label design make the system compliant with track and trace regulations worldwide.
**FEATURES**

- **Additional accessories**
  - Optional speed controlled infeed and outfeed conveyor belts
  - Handheld code scanner
  - Reject bin suitable for heavy cartons (e.g., carton with bottle)
  - Pusher for ejecting heavy cartons

- **Installation requirements**
  - Voltage: 230 V, 50 Hz / 110 V, 60 Hz (L, N, PE)
  - Power: approx. 1.0 kW (can vary with the machine options)
  - Compressed air: 6 bar clean dry air / consumption at continuous operation approx. 90 Nm³/h

**Operating Conditions**
- Temperature: 10°C – 40°C
- Humidity: 0% – 80% RH (non-condensing)

**Please note**
- High humidity can have negative effects on print quality (grading, blur of print)
- For thermal ink jet print systems: High humidity might cause longer ink dry time which has an impact on the machine vision inspection and could lead to higher false rejects rate
- It might be necessary to reduce the print resolution or the transport speed of the system in order to increase the ink dry time
- For thermal ink jet print systems: High humidity might lead to a shorter cleaning interval for the nozzle of the thermal ink jet cartridges

**SPECIFICATIONS**

**Product dimensions**

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>min.</th>
<th>max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (W)</td>
<td>mm</td>
<td>15 mm</td>
<td>180 mm</td>
</tr>
<tr>
<td>Height (H)</td>
<td>mm</td>
<td>15 mm</td>
<td>125 mm</td>
</tr>
<tr>
<td>Length (L)</td>
<td>mm</td>
<td>70 mm*</td>
<td>260 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>g</td>
<td>30 g</td>
<td>300 g</td>
</tr>
</tbody>
</table>

* with 20 mm tamper evident label, and 60 g with 32 mm label. Other product dimensions have to be evaluated by Traxeed.

**Sample print layout**

- **A**: Barcode size
- **B**: Code field length
- **D**: Line space
- **L**: Text length
- **H**: Text height
- **Q**: Quiet zone

**Conveyor system**

- Print Verification
- Reject
- Tamper evident

**Print positions**

- Machine side
- Transport direction
- Operator side

**Tamper evident label position**

- Side-top application (label symmetrically applied)
- Side-bottom application (label symmetrically applied)

**CODING SYSTEMS**

- **Thermal inkjet printer Wolke m610 oem / Domino G320i OEM**
  - Resolution 300 dpi
  - Coding speed up to 60 m/min
  - Print height 12.7 mm per print head
  - Up to 4 print heads to print in up to two locations simultaneously or to increase print height to 25.4 mm (max. 2 print heads on one side)

- **CO₂ laser printer Domino D620i**
  - 60 watt air cooled
  - Coding speed up to 50 m/min (depends on print content; typical 35 m/min)

- **CO₂ laser printer Videojet VJ3340**
  - 30 watt air cooled
  - Coding speed up to 40 m/min (depends on print content; typical 35 m/min)

**Bluhm Tamper Evident Seal Applicator**

- Position Accuracy: ± 2mm
- Application evaluation by gloss sensor
- Up to 300 ppm

**Tamper evident label Information**

- Width: min. 20 mm, max. 32 mm
- Length: min. 20 mm, max. 32 mm
- Label roll diameter: max. 300 mm
- Label roll core diameter: 76.2 mm
- Label gap: min. 3 mm
- Recommended label material: Polypropylene, PP-Foil (51 µm thickness)
- Recommended Carrier Material: Polyester, PET-Foil (30 µm thickness)

**Tamper evident seal format change requires specific operator training and might require format parts (depends on tamper evident seal format differences)**

**Please note that all customer labels have to be evaluated by Traxeed before use**

**DIMENSIONS**

**Space requirements**:
- Maximum frame length: 1242 mm (depending on system configuration)
- Total depth: 1569 mm (incl. electrical cabinet)
- Total height: max. 2399 mm
- Weight: approx. 550 kg