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

The ItemUnit combines a precise product transport (four lane conveyors) with printing, vision control, 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**

**Conveyor system**
- Servo driven four lane conveyor belt
- Belt speed adjustable up to 70 m/min
- Up to 400 ppm
- Transfer height variable from 750 to 1000 mm
- One transport system for laser and ink jet print systems

**Machine cover**
- Optional with thermal ink jet printers
- Plexiglass cover
- Lockable door safety switch

**Coding system options**
- Thermal inkjet printer Wolke m610 OEM
- Thermal inkjet printer Domino G320i OEM
- CO₂ laser printer Domino D620i (60W)
- CO₂ laser printer Videojet VJ 3330 (30W)

**inspection system**
- Traxeed vision system including camera station and LED lighting
- b/w CCD-Matrix-Camera
- Field of view: W = 60 mm, H = 40 mm
- Resolution: 1296 × 966 pixel
- Additional camera station to verify data in up to two different positions simultaneously

**Reject station**
- Pneumatic driven air blower
- Reject verification with light barrier
- Rejected products are collected in a reject bin
- Optional additional reject stations

**Industrial PC**
- B&R Industrial PC
- CPU Intel Core i7 Quad Core 2.3 GHz
- RAM 4 GB DDR3
- SSD 60 GB
- 18.5” Widescreen TFT Touch Screen
**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

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Product dimensions</th>
<th>min.</th>
<th>max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (W)</td>
<td>15 mm</td>
<td>180 mm</td>
</tr>
<tr>
<td>Height (H)</td>
<td>15 mm</td>
<td>125 mm</td>
</tr>
<tr>
<td>Length (L)</td>
<td>55 mm</td>
<td>260 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>30 g</td>
<td>300 g</td>
</tr>
</tbody>
</table>

Other product dimensions have to be evaluated by Traxeed.

Operating Conditions
- Temperature: 10°C – 40°C
- Humidity: 0% – 85% 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 try 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

**CODING SYSTEMS**

- **Thermal inkjet printer Wolko 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)

**DIMENSIONS**

Space requirements:
- Frame length: 897 mm
- Total depth: 1455 mm (incl. electrical cabinet)
- Total height: max. 2399 mm
- Weight: approx. 400 kg