

ITEM UNIT

THE OPTEL ITEMUNIT IS A MODULAR SYSTEM FOR ONLINE CODING, SERIALIZATION AND VERIFICATION OF SINGLE ITEMS IN THE PHARMACEUTICAL PACKAGING PROCESS.

The **OPTEL 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

INSPECTION SYSTEM

- OPTEL vision system including camera station and LED lighting (b/w CMOS-Camera, 2048 × 1088 pixel)
- Optional: Cognex vision system including smart camera and LED lighting (b/w CMOS-Camera, 1280 × 1024 pixel)
- Field of view: W = 60 mm, H = 40 mm
- Additional camera station to verify data in up to two different positions simultaneously

CODING SYSTEM OPTIONS

- Thermal inkjet printer Domino G320i OEM
- CO₂ laser printer Domino D620i (60 W)
- CO₂ laser printer Videojet VJ 3340 (30 W)

REJECT STATION

- Pneumatic driven air blower (optional with pneumatic pusher)
- 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 i5 Quad Core 2.7 GHz
- RAM 16 GB DDR4
- SSD 128 GB
- 18.5" Widescreen TFT Touch Screen



FEATURES

ADDITIONAL ACCESSOIRES

- 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)

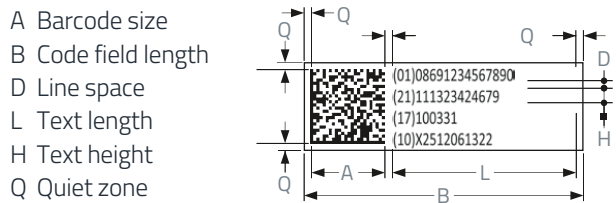
PLEASE NOTE

- 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 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

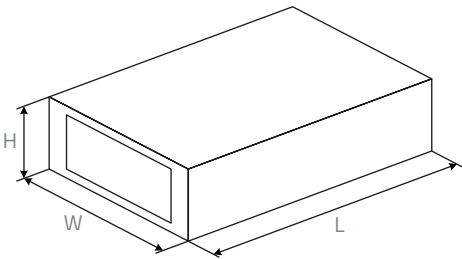
SPECIFICATIONS

Product dimensions	min	max
Width (W)	15 mm	180 mm
Height (H)	15 mm	125 mm
Length (L)	55 mm	260 mm
Weight	30 g	300 g

SAMPLE PRINT LAYOUT

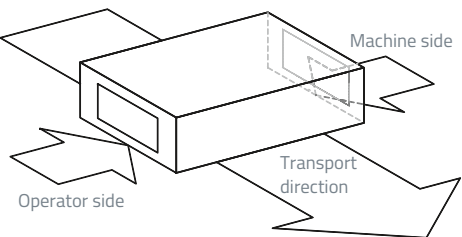


PRODUCT DIMENSIONS

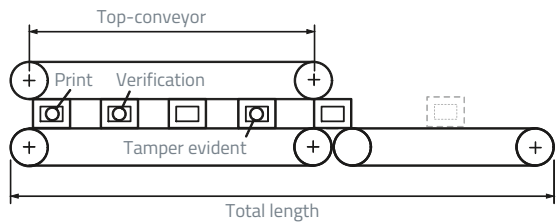


Other product dimensions have to be evaluated by OPTEL.

PRINT POSITIONS



CONVEYOR SYSTEM



CODING SYSTEMS

THERMAL INKJET PRINTER WOLKE M610 OEM/DOMINO G320I OEMS

- 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) approx. 90 Nm³/h

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

- Maximum frame length: 1510 mm (depending on system configuration)
- Total depth: 1926 mm (incl. electrical cabinet)
- Total height: max. 2600 mm
- Weight: approx. 700 kg

FRONT AND SIDE VIEW

