

PRINT AND VERIFICATION, SECURE AND STRAIGHT FORWARD ALL-IN-ONE SOLUTION



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UAT-1005

Pharma Pack Handling Unit
With Print And Verification



HIGHLIGHTS

Key Benefits Pack Handling Unit

- Smooth and stable package handling system
- High quality print due to top bottom synchronized transport guides
- The machine is prepared for printing on front and the back simultaneously (optional)
- Adjustable conveyor speed
- Integrated ejection control system
- Tool and format-free batch change
- Machine design in stainless steel and transparent polycarbonate
- Easy maintenance access to all machine parts via large top cover and removable back cover

Pack Handling Unit

The solution is a stand-alone pack handling system for marking applications on folded cartons.

The design of a continuous top bottom belt conveyance system ensures accurate transport of products, providing optimal conditions for high quality printing.

The use of qualified components allows fast integration into existing line equipment.

The basic machine is prepared for 2-side installation of the HP TIJ 2.5 printhead and camera.

**Design, print,
verify and control
the machine from
one interface**



Turnkey Solution

The combination of the software and the pack handling machine results in a compact overall solution for trouble-free print and verification of a folded carton in a pharmaceutical production.

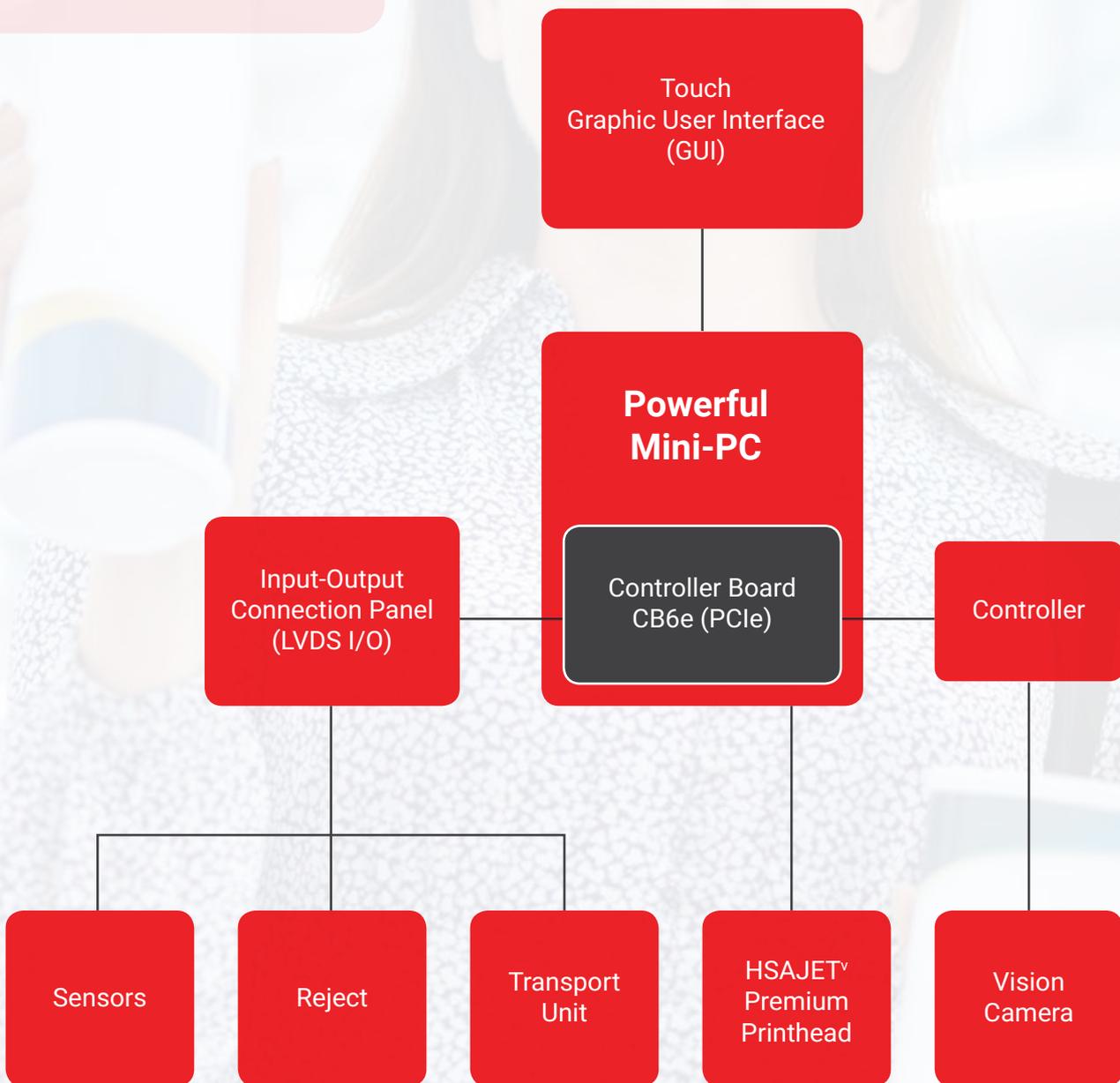
Print and Verification

The Print and Verification Unit system is the control centre of the machine, utilizing a touch screen to provide design of jobs, control of print, verification and eject, and interfacing to other associated equipment.



Key Benefits Print & Verify System

- Complete machine controlled by software and hardware
- The most compact and maintenance friendly system in the market



EXTERIOR FEATURES



Main power On/Off, Fuse and Main power connections are found on right side of the machine.



Transparent top cover

Beacon (optional)

User-friendly machine operation, printer and vision via one central 15" touch screen



Reject bin, with lock, for rejected items.

Stainless steel cabinet with safety locker for controller

Height adjustable supports

Small footprint only



PC On, Emergency Stop and Reset buttons are placed on front of the machine.

The Connection Panel is built into the cabinet. All in- and outputs are distributed internally and externally from here.



INTERIOR FEATURES



Camera and printhead on common height adjustable bracket.



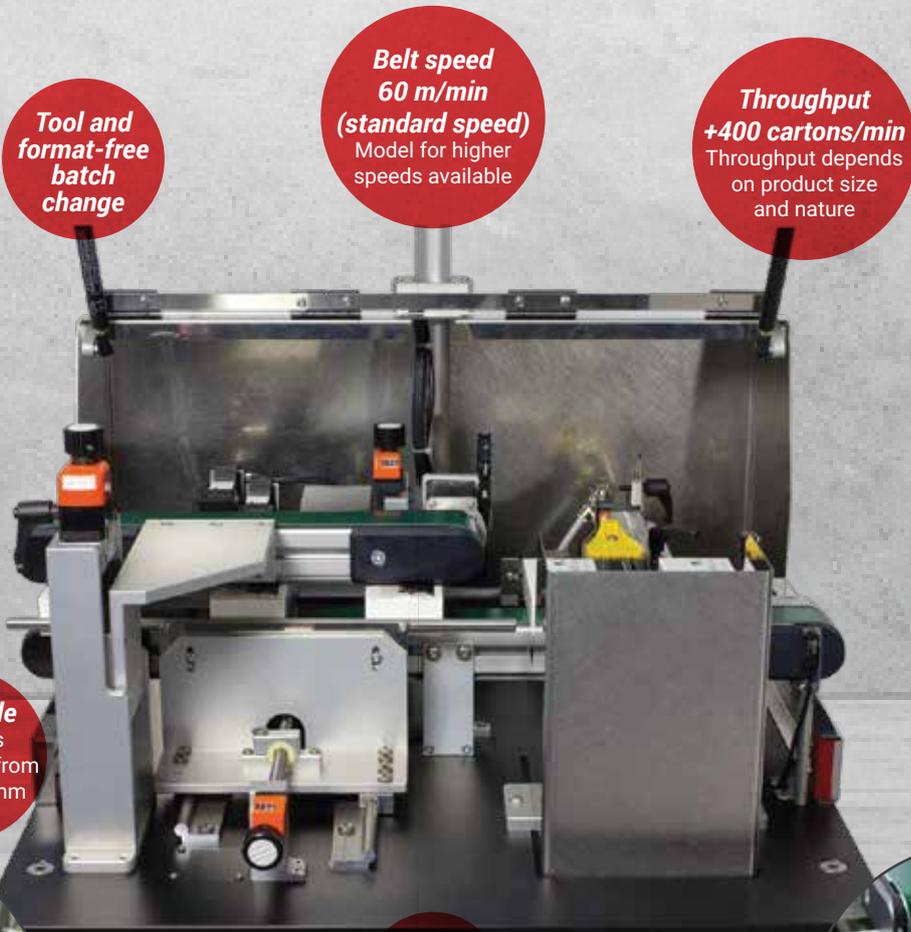
The top belt is height adjustable from 10 to 75 mm. Synchronized carton guide between top and bottom belts.



Inspection Camera: Code verification and grading.



Accept verification sensor.



Tool and format-free batch change

Belt speed 60 m/min (standard speed)
Model for higher speeds available

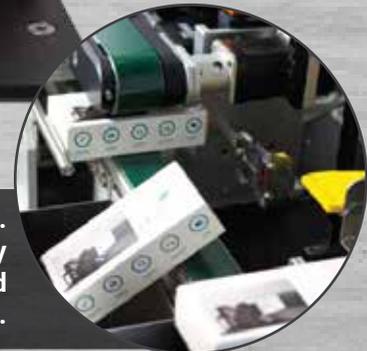
Throughput +400 cartons/min
Throughput depends on product size and nature

Sideguide
sideways adjustment from 40 to 210 mm

Robust mounting base



Integrated ejection control system with eject verification sensor.



Blow-out Reject. The catch tray guides rejected cartons into the bin.



PRINTING

The system is equipped with a top and bottom belt for smooth transport of the products. The two belts accurately keep the cartons in position to ensure a high print quality

IMPRINT

Technology

HSAJET® Premium printheads
HP TIJ 2.5 technology

Print dimension

Height up to 25.4 mm (1")
Length up to 145 mm (5.7")

Print features

1D code
2D code
Human readable
Date
Time
Counter
Bitmaps
Freely created text
Serialisation (via database connectivity)

PRODUCTION

Print position

Print on back
Print on front (optional)

Carton size (max)

A: 40-210 mm (leading edge)
B: 10-75 mm (height)
C: Max.150 mm (printed side)

Throughput

300¹ units/min (average sized product)
480¹ units/min (special product size and machine configuration)

Precise position control

Synchronized top and bottom belts and sensors ensure that the exact position is known during the carton's travel along the conveyor.

If a carton is incorrectly positioned, the conveyor stops.

PRINTING SYSTEM

Technology

HSAJET® Premium printheads
HP TIJ 2.5 technology

Print height

12.7-25.4 mm (½"-1") 1 or 2 pens

Resolution

Up to 600 dpi

Print distance

0.5-5.0 mm dependent on ink and speed, typically 0.5-2.0 mm (nozzle to print surface).

Ink supply

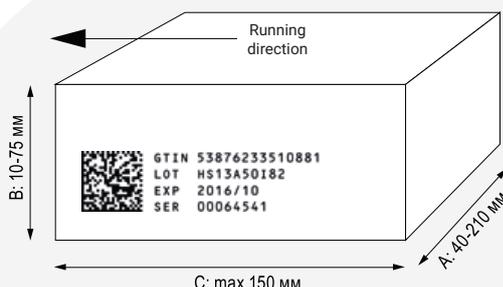
HP45 ink cartridges, dye and pigmented, water or solvent based inks.

Printhead features, e.g.

Purge and ink reset buttons.
LED indication for cartridge detection and low ink.
Cartridge detect switch.

System controller

Mini-PC cabinet
Intel® Core processor
SSD hard drive for maximum processing power and reliability.
I/O LVDS connection panel



CARTON SIZE

1) The actual throughput is dependent on the distance between products, and surface, stability and rigidity of the carton.



TECHNICAL DETAILS

MECHANICAL

Dimensions

Length:	664 mm
Width:	640 mm
Height:	1015 mm
Height adjust:	±50 mm

Working height

870 mm ±50 mm

Weight

90 kg (approx.)

Top and Bottom drives

Synchronised stepper motors

Belt dimensions

Bottom (length):	646 mm
Top (length):	360 mm
Width:	40 mm

Belt speed

5-60 m/min

Running direction

Left to right

Cabinet

Brushed stainless steel with key locked space for controller and reject bin.

Top cover

Transparent.

Brackets and Supports

Stainless steel.
Anodised aluminium.

Printhead & Camera mountings

Integrated common height adjustable bracket for printhead and camera for correct positioning. Mountkit for front mounting.

Format adjustment

Tool free adjustment. Reproducible by digital display at the spindle.

ELECTRICAL

Electrical connection

Main switch (lockable)	
Industrial power cable	
Voltage (1 phase):	230 VAC 110 VAC
Frequency:	50 Hz 60 Hz
Power consumption:	690 W 690 W
Fuse:	3.0 A 6.0 A

Power backup

Uninterruptible Power Supply (UPS) for shutting down system properly in case of unexpected power disruption (optional).

Electrical panel

PC On, Emergency Stop and Reset buttons.

Emergency operation

Switch on front panel.
Hardware controlled emergency stop function.

PNEUMATIC

Air pressure

8 bar main supply (min 6 bar required).

Reject system

Air pressure blow-out for cartons up to 250g. Pneumatic push out device available for products >250g (optional).

CONNECTIONS

External connections

Main power
Air pressure
Upstream/Downstream machine control signals for interaction with other machines.

Product position sensors

for print, camera, reject and accept

Input / Output

I/O Connection Panel (LVDS)

ACCESSORIES & OPTIONS

Beacon

3-colour beacon for display of current status.

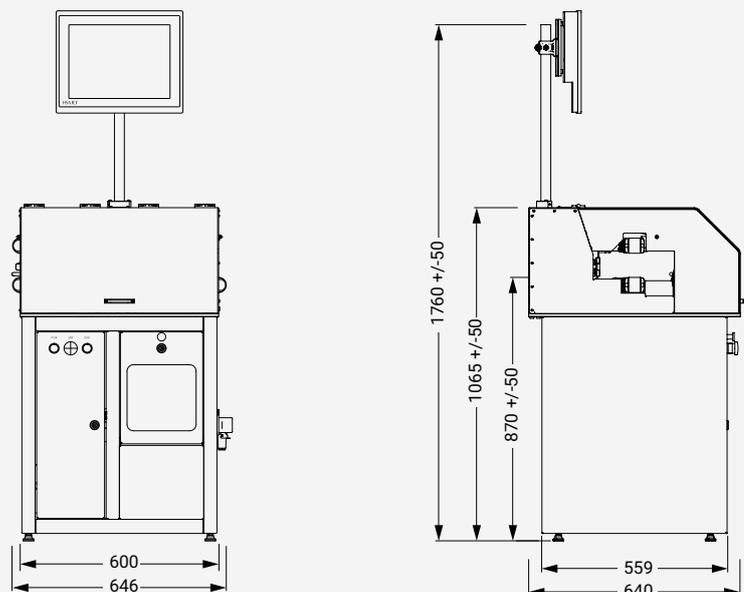
Front print kit

Kit for mounting of printhead and camera on operator's side.

Pneumatic reject

Push out device.

Drawing not to scale



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