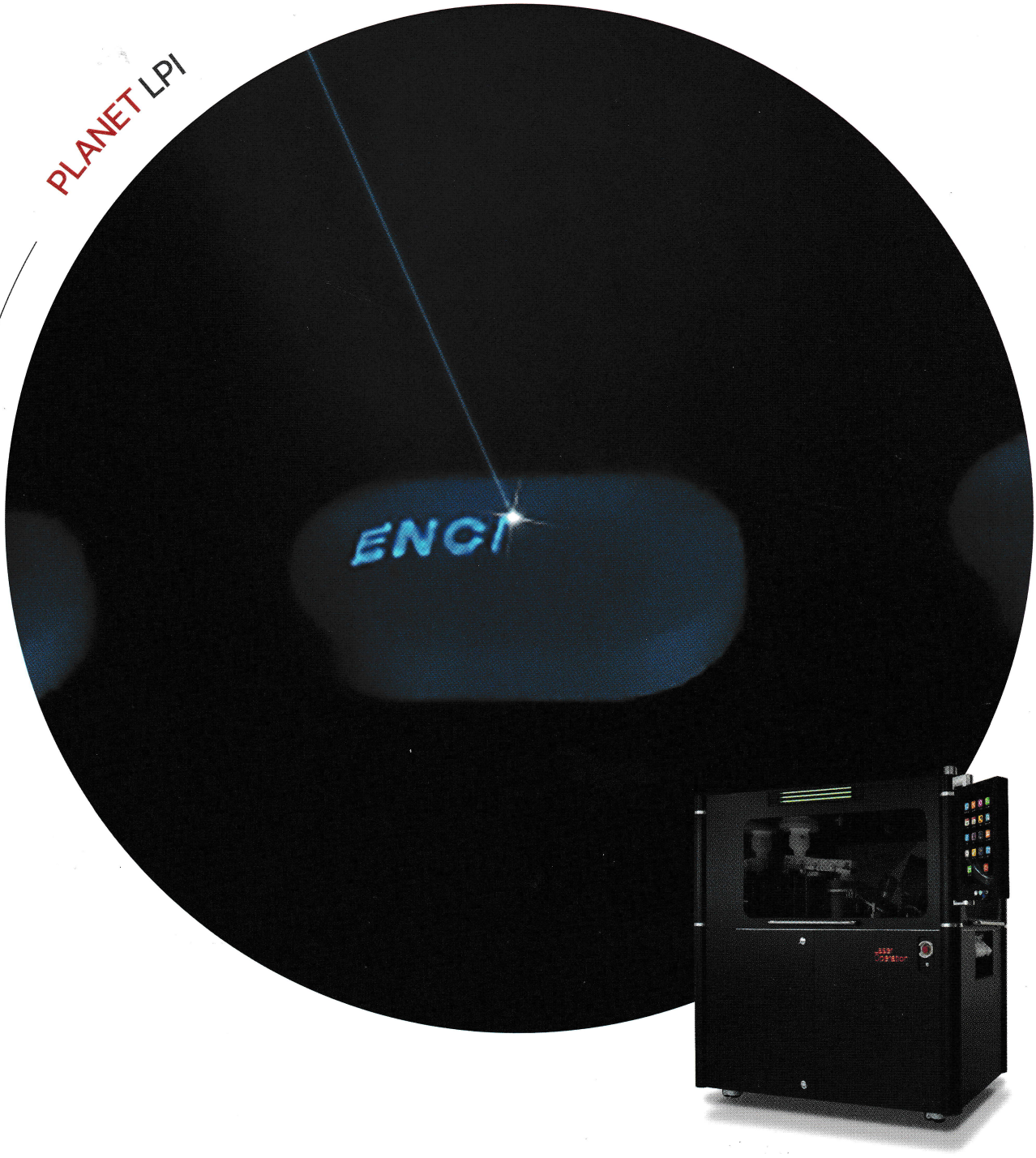
PLANET LPI



UV LASER PRINTING

Exquisite and Fine Printing on Tablet and Capsule

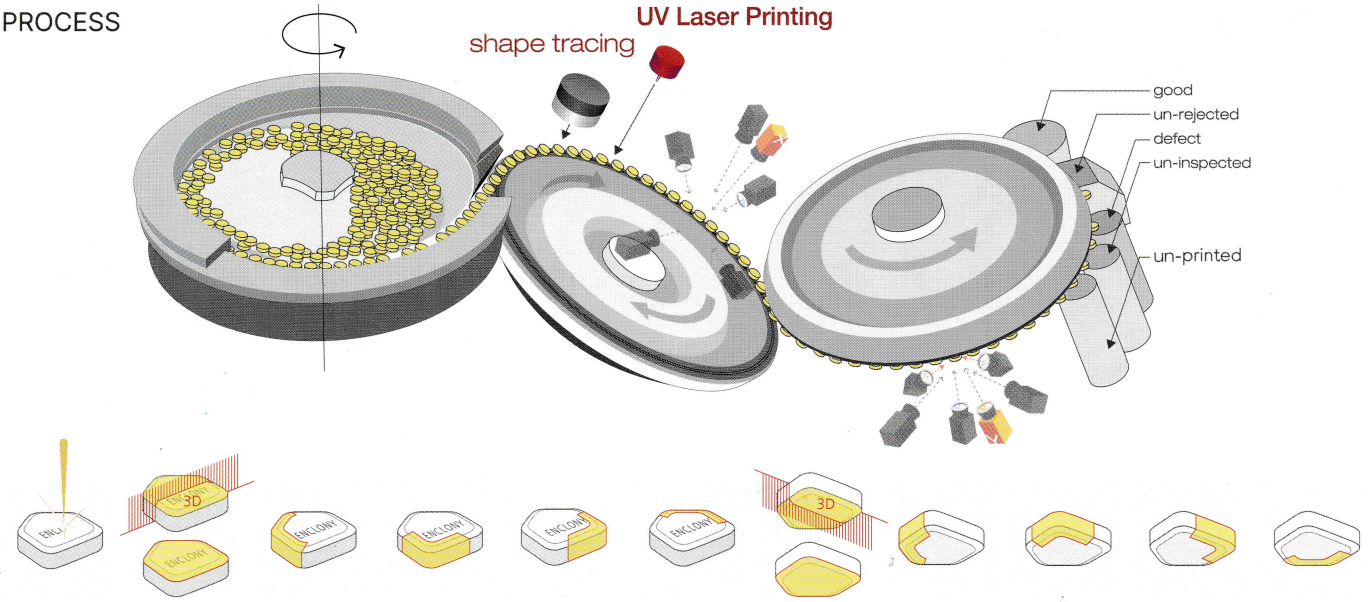
ENCLONY

FINE AND INNOVATION DESIGN

Fine printing technology allows you to print your ideal design. Lines can be printed with a minimum of 100μm, and the maximum surface of the tablet can be used for the design, such as the edges and corners.

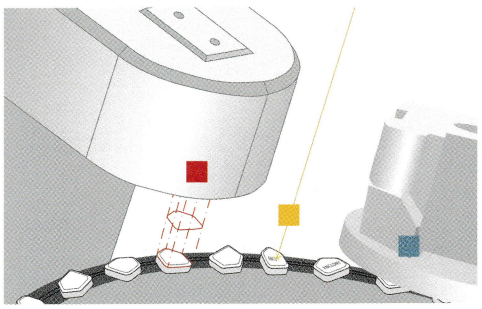
UV LASER PRINTING WITH FULL VISION INSPECTION

PROCESS



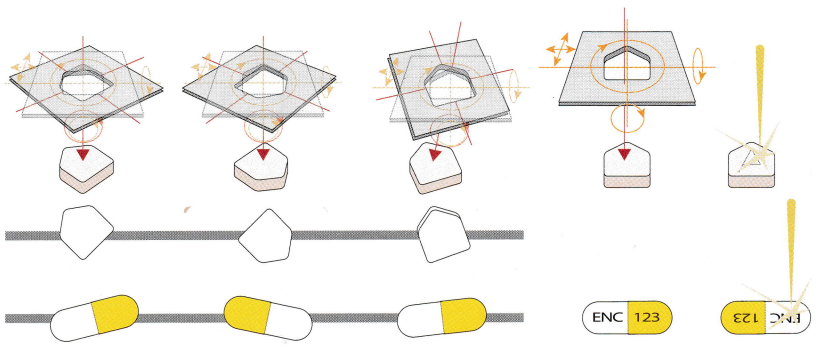
The machine performs UV laser priting with shape tracing first, and then operates full inspection. For inspection, each tablet is inspected by ten 2D cameras capturing the complete surface areas without any blind spot. In addition two 3D cameras measure the height of tablet surface, both sides of top and bottom, which allow to detect minimum 30μm defects.

SHAPE TRACING AND KEY TECHNOLOGIES



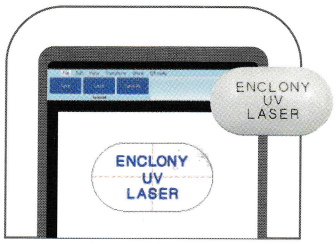
■ 1) Shape tracing ■ 3) Inspection

■ 2) Laser Printing as per its shape



In addition to precise shape tracing, a complex UV laser control method, and precise motor movement control, accurate printing locations are made within 100μm of the XY axis and 1° of rotation. Due to its ability to read the convex surface of the tablet well, the fine printing can be performed even on deep convex tablets without distortion.

SMART HMI



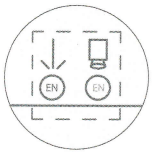
ID Artwork on HMI
ID desgin work on HMI and immediate trials of printings are available.

Saving Defect Images and Running Simulation

Easy Parameter Setting

ADVANTAGE OF 2-IN-1 SYSTEM

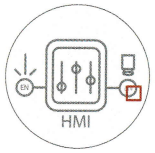
A combination of UV laser printing and vision inspection



Minimizing of production process

Cost saving of time, labor, spaces, etc.

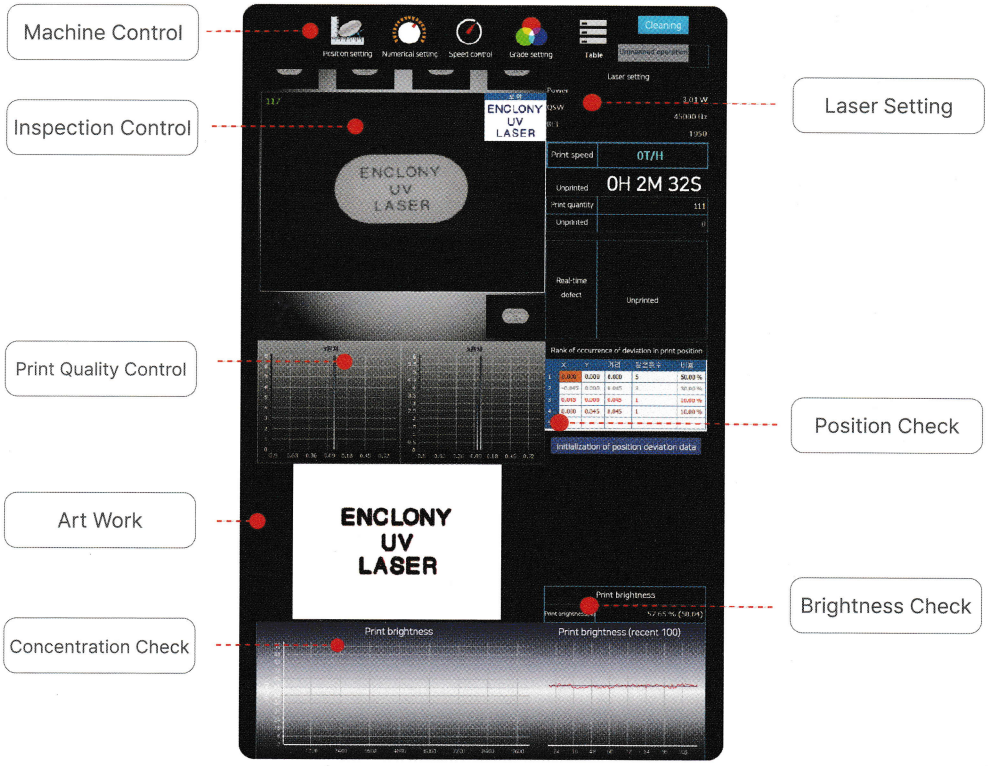
Immediate detection of defective ID



Integrated control on single HMI of printing and inspection

Integrated Control and Real Time Operation Status on HMI

- One HMI controls all functions of laser printing, inspection, and machine operation demonstrates in real time.
- Real time quality control of every single tablet/capsule is possible.



Operation Chamber

APPLICABLE FLEXIBILITY OF TABLET / CAPSULE

Round tablet : Diameter(D) 3.5mm – 14mm

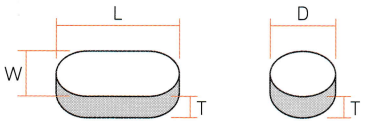
Oval/Oblong tablet : Width(W) 3.5mm – 14mm
Length(L) 10mm – 22mm

Thickness(T) : 2mm - 8mm *Diameter (or Width) minus Thickness ≥0.7mm

Polygon tablet : triangle, square, diamond, pentagon, hexagon, octagon shapes, etc.

Free shaped tablet : heart, kidney, bean, water drop, half round, almond, flower shapes, etc.

Hard gelatin capsule : capsule No. 00, 0, 1, 2, 3, 4, 5



* Inspection applicability of respective products is subject to actual product testing and confirmation by Enclony.

CAPACITY

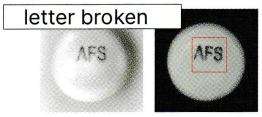
5mm Round : 400,000 tablets/hr

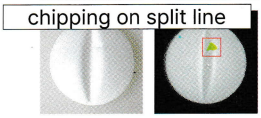
10mm Oblong : 200,000 tablets/hr

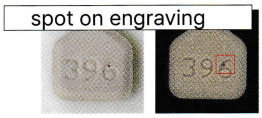
#5 Capsule : 150,000 capsules/hr

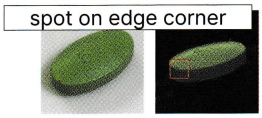
DEFECT ANALYZATION

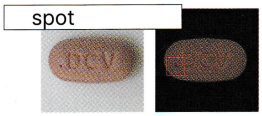
Tablet

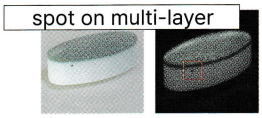


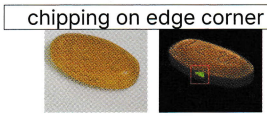


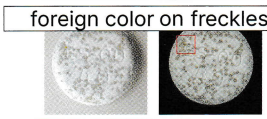


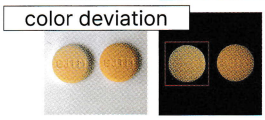


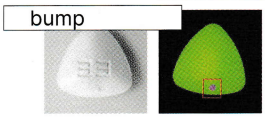


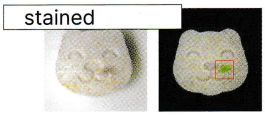


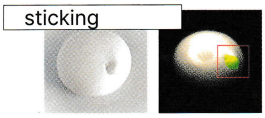




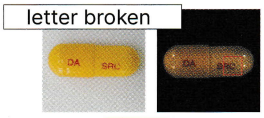


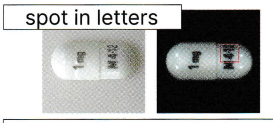


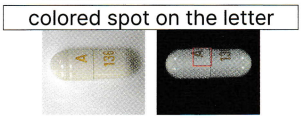


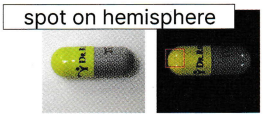


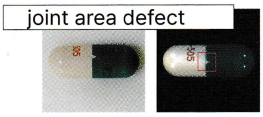
Capsule

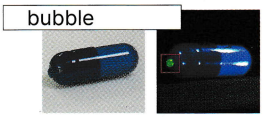


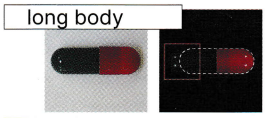


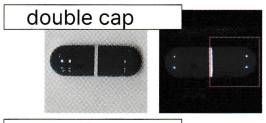


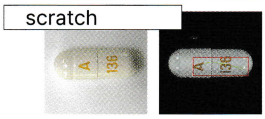


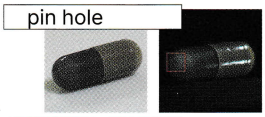


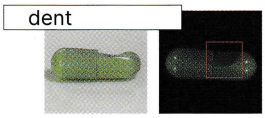


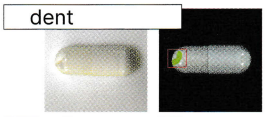












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