

Tablet Inkjet Marking System **IMS-300D**

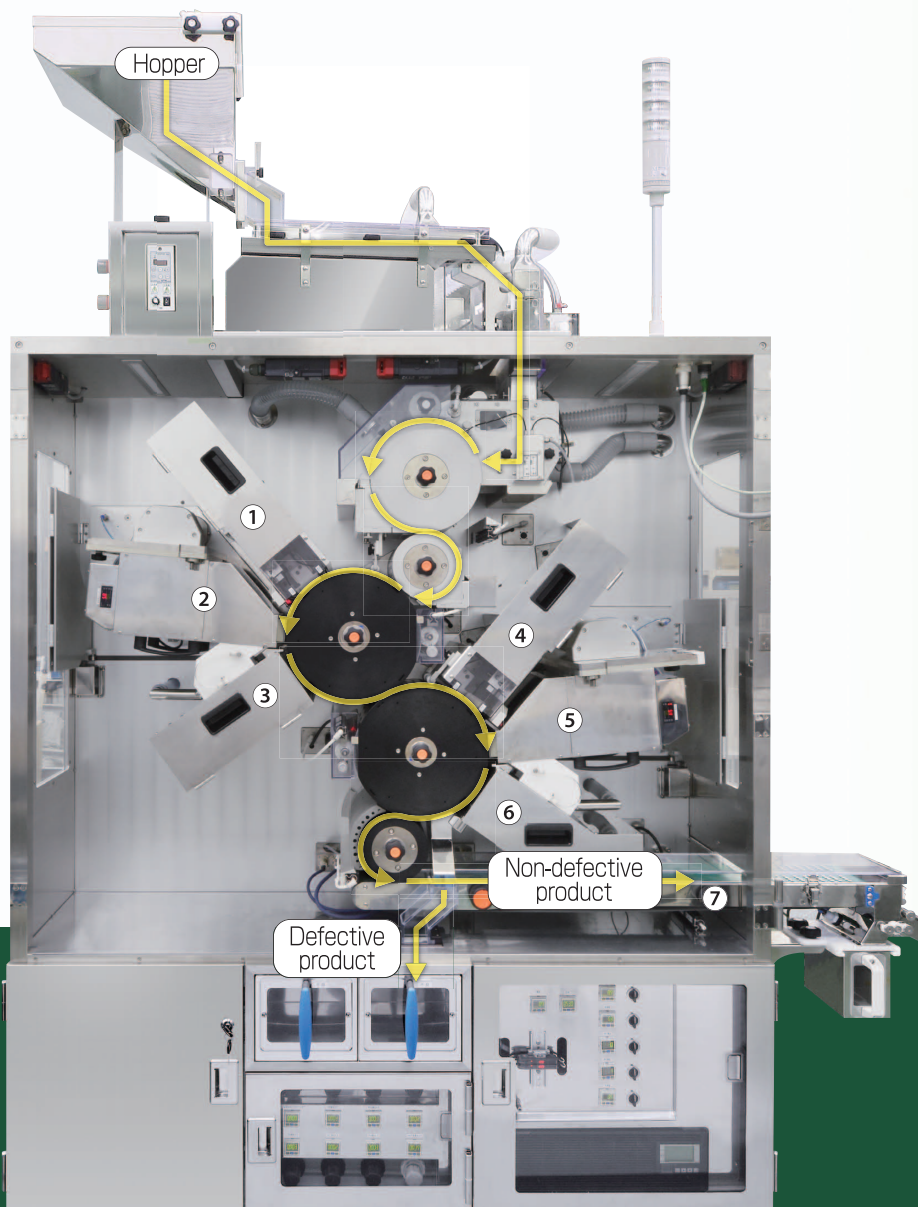
I N K J E T



INKJET

IMS-300D realizes imprinting on uncoated tablets and oral dissolving tablets, which has been quite difficult with conventional printers.

We are also developing quick-drying water-soluble inks and pigment inks, enabling printing on film-coated tablets.



Tablet Inkjet Marking System
(Double sided imprinting)

IMS-300D

Part names

- ① Feature detecting camera (front)
- ② Inkjet imprinting head (front)
- ③ Imprinting inspection camera (front)
- ④ Feature detecting camera (back)
- ⑤ Inkjet imprinting head (back)
- ⑥ Imprinting inspection camera (back)
- ⑦ Drying belt

Designs including letters and marks in bitmap format are able to be printed on both sides of tablets by inkjet imprinting.

The device for imprinting inspection which detects non-defective products with appropriate imprinting is equipped, delivering only non-defective products to the next process, and assuring imprinting quality.

Drum conveyor system

Drum conveyor system enables imprinting on 300 thousand tablets per hour.*

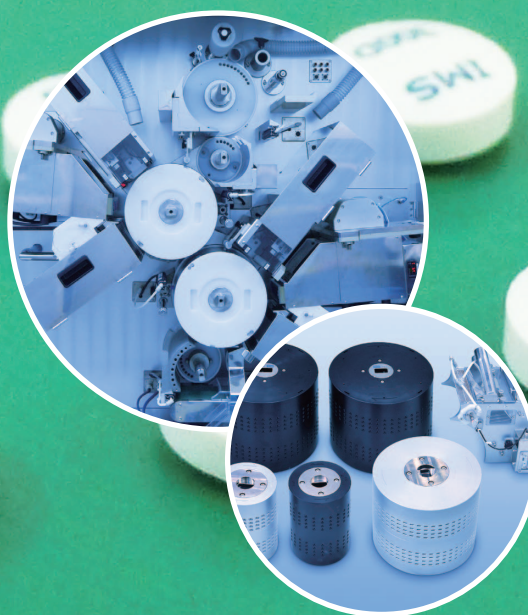


The system has already proven its conveying performance with uncoated tablets and oral dissolving tablets. Furthermore, it can convey round tablets and irregular formed tablets. The original tablet holding mechanism enables precise positioning, realizing high-level imprinting accuracy.

Qualicaps Inks



The Qualicaps inks have proven their performance as inks for offset printers, and the tones of the colors can be freely adjusted. In addition, we are also developing quick-drying water soluble inks and pigment inks, which enable imprinting on film-coated tablets.



Details of imprinting inspection

■ Inspection of the number of the letters

Non-defective product



Defective product



1 2 3

■ Inspection of the imprinting position

Non-defective product



Defective product



■ Inspection of the imprint width

Non-defective product



Defective product



■ Font size inspection



High Resolution



Since imprinting is performed using high resolution imprinting head, letters and marks are able to be printed clearly on tablets.

Feature Detecting Function

132.cam2出力内容				
×ズレ	-122.2	-72.9	19.6	166.6
yズレ	89.0	105.5	87.3	98.1
角度		25949		19509
	⑤	⑥	⑦	⑧
有無	26283	26092	26112	26236
特徴	0	858	0	649

The cameras automatically perceive the features including break lines, and imprinting is performed in accordance with the features. Automatic change of imprinting angle for tablets coming from every angle has enables imprinting with high precision.

Imprinting Inspection



Imprinting inspection performed with a total of four cameras for both sides of tablets assures you a high imprinting quality. (See the details of imprinting inspection below.)

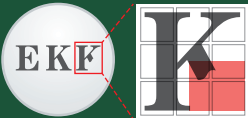
High Flexibility of Design



Flexible designs, delicate imprinting, wide imprint width are now available. Designing the letters for imprinting is able to be performed in a short time using image scanning. Design rolls are no longer needed.

pection

■ Inspection of the details of the letters



Imprinting inspection is able to be reinforced in imprinted letters for re-confirmation.

Specifications of imprinting inspection unit

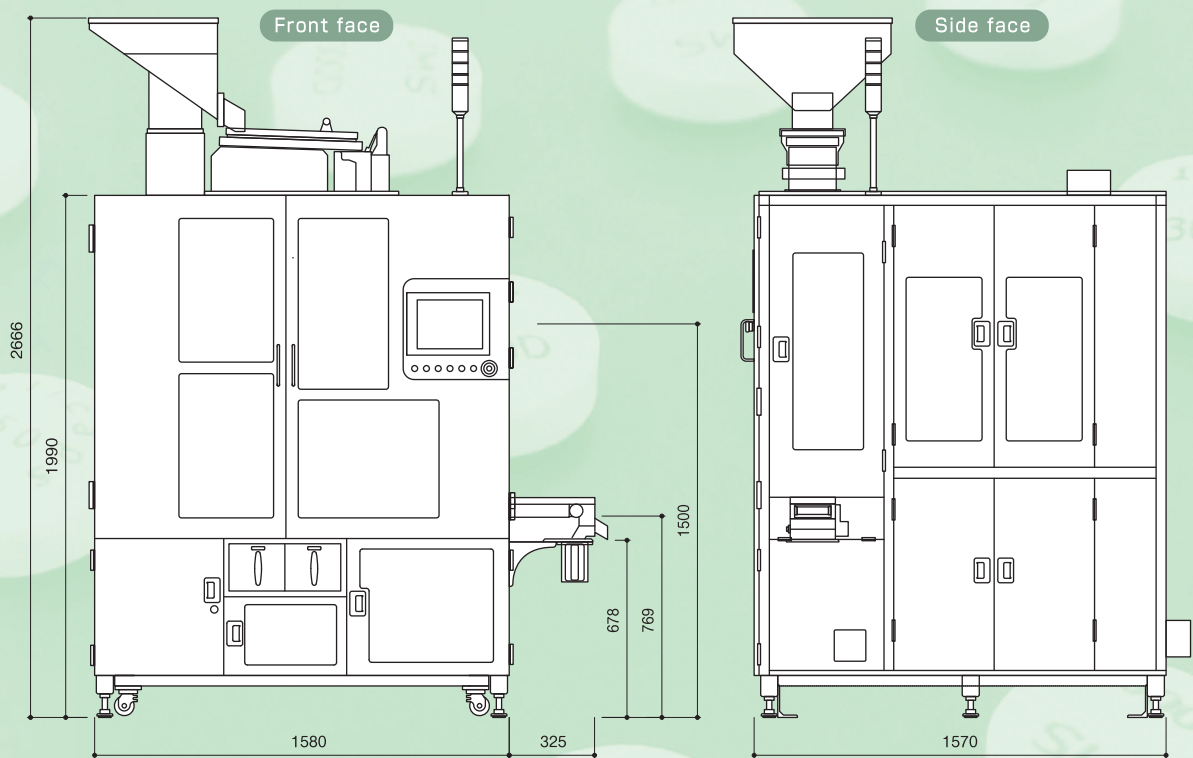
- Monochrome CCD area cameras (a total of four cameras for both sides of tablets)
- Resolution 0.025 mm
- LED lighting
- System details: server PC 1 unit, inspection PC 4 units

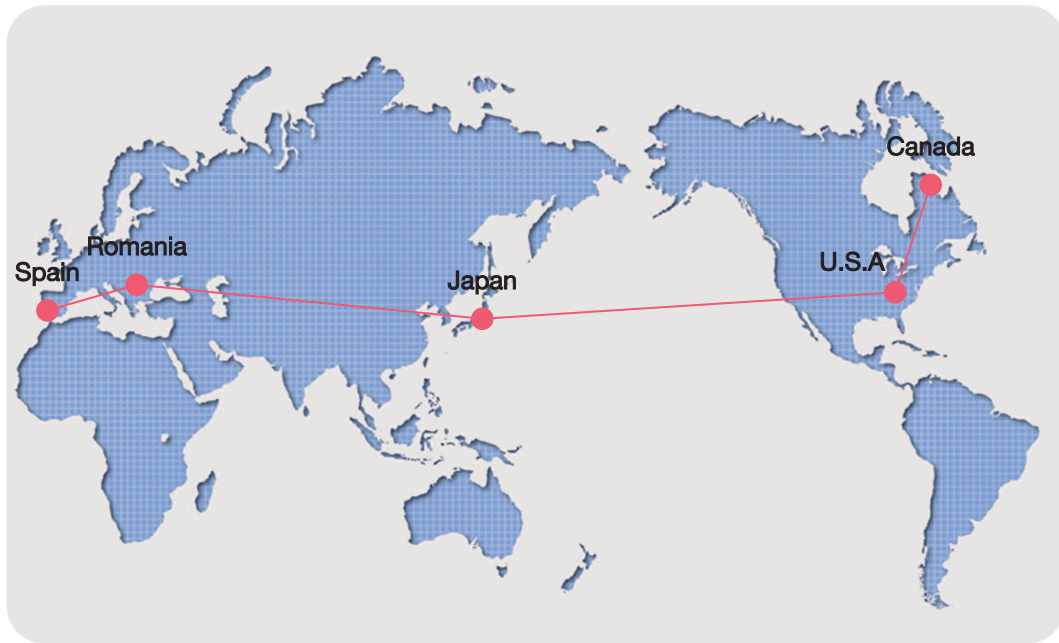
Specification

Name	Tablet Inkjet Marking System	
Model Number	IMS-300D	
Production Capacity	300,000 tablets/hour (depends on conditions)	
Electricity	3phase 200 V, 60 A (Earth leakage circuit breaker: 100 mA) 3phase 200 V, 11 kW (For blower of product handling) 3phase 200 V, 0.65 kw (For dust collecting blower)	
Compressed air	0.6 MPa 1,500 L/min (ANR) for product contact (Inner drive 10 L/min)	
Vacuum	19.6 kPa 10.5 m³/min	
Installation environment	Temperature 23 ± 5°C Humidity 55% ± 10% RH (No condensation)	
Overall dimension	Main Unit (W×D×H)	Approx. 1,580 × 1,570 × 2,666 (including hopper)(mm)
	Control Panel (W×D×H)	Approx. 800 × 700 × 2,150 (mm)
	Blower for handling (W×D×H)	Approx. 1,550 × 1,490 × 1,900 (mm)
	Separator with blower (φ×H)	Approx. 1,324 × 2,316 (mm)
	Dust collecting blower (W×D×H)	Approx. 520 × 650 × 1,447 (mm)
Weight	Main Unit	Approx. 2,500 kg
	Control Panel	Approx. 500 kg
	Blower for handling	Approx. 630 kg
	Separator with blower	Approx. 300 kg
	Dust collecting blower	Approx. 90 kg

Product specifications are subject to change without notice.

Overall size (IMS-300D) (mm)





GLOBAL NETWORK

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