

Auto plating system for coliform and thermotolerant inspections

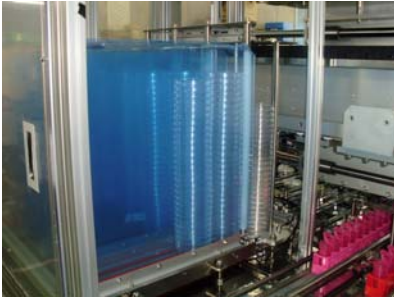


1. Features

- a. Automation of dispensing and mixing of the sample & agar
- b. Uniform the conditions of dispensing and mixing the sample & agar. The differences of the conditions, which are possible to happen by manual operation, can be avoided.
- c. The labor of operator will be much easier. The operator's main work will be the setting and collection of petri dishes
- d. By putting the barcode to the petri dishes, data management will be easier
- e. Clean booth is installed to avoid contamination.

2. Capacity

- a. Processing speed ; 360samples/h
- b. Accuracy of sample dispensing : 100microlitter plus/minus 2%,
50microlitter plus/minus 2%
- c. Accuracy of agar dispensing : 16-20mL plus/minus 5%
- d. Petri dish stocking capacity : max. 720pcs
- e. Petri dish collecting capacity : max. 320pcs
- f. Power source : 230V
- g. Air pressure 0.5Mpa



3. Petri dish supplying part

- a. Max.720pcs of petri dishes can be stored
- b. Stocked dishes can be easily detached each other by unique mechanism, and supplied smoothly to the following process.



4. Sample dispensing part

- a. Micropipettes are mounted on the robot, which moves horizontally. This robot wears the tip for every sample by sample, then works for sample absorbing, dispensing it to petri dishes, and detaches the tips.
- b. Read the IC tag on the sample bottle, at the timing of sample dispensing.



5. Agar dispensing and shaking

- a. Dispense the agar on the dispensed sample. Then shake the dishes to spread it out.
- b. The time and frequency of shaking can be adjusted by user.



6. Barcode label putting part

- a. The data on IC tag, which was read at the timing of sample dispensing, is transferred to QR code. QR code is printed and put on the petri dish.
- b. By putting the barcode, the administration, control of sample can be much easier.



- ## 7. Petri dish collecting part

 - a. Max.320pcs can be collected
 - b. The stockable pcs. can be set by user



- ## 8. Clean booth

 - a. Clean air generator with HEPA filter is installed on the upper part of clean booth. It supplies clean air for the petri dishes, sample rack & pipette tips keeps positive pressure for the clean booth.
 - b. Safety switch is installed on the door of clean booth. It shut off the motor power source for the instruments near the doors.

Manufactured by
Nittetsu Mining Co., Ltd.
2-5-2 Marunouchi, Chiyoda-ku, Tokyo, Japan

Distributed by
Fujihira Industry Co., Ltd.
6-11-6 Hongo Bunkyo-ku Tokyo, Japan
Tel: +81-3-3812-2270
Fax: +81-3-3812-3663
E-mail: overseas@fujihira.co.jp