Robotic LIMS-to-Vial Labeler

From the worklist to the labeled vial.



Example workstation · retouched overview photograph

SAMPLE IDENTIFICATION

The CHROMTECH Robotic LIMS-to-Vial Labeler reads sample information from worklists and automatically labels the corresponding vials. QR codes and plain text link the digital sample information to each physical vial.

WORKFLOW AND CONTROL

Read the worklist
CSV or Excel file from the LIMS.
Pick up and label the vial
Robot, labeler and code verification.
Place it in the output tray
CT-Core records the processing status.

CT-Core coordinates the devices via OPC UA. Grippers, vial formats, label layouts and source and output trays are configured to suit the laboratory workflow.

LIMS: laboratory information management system. Vial: a small sample container. OPC UA: a standardized interface for exchanging data between devices and software.

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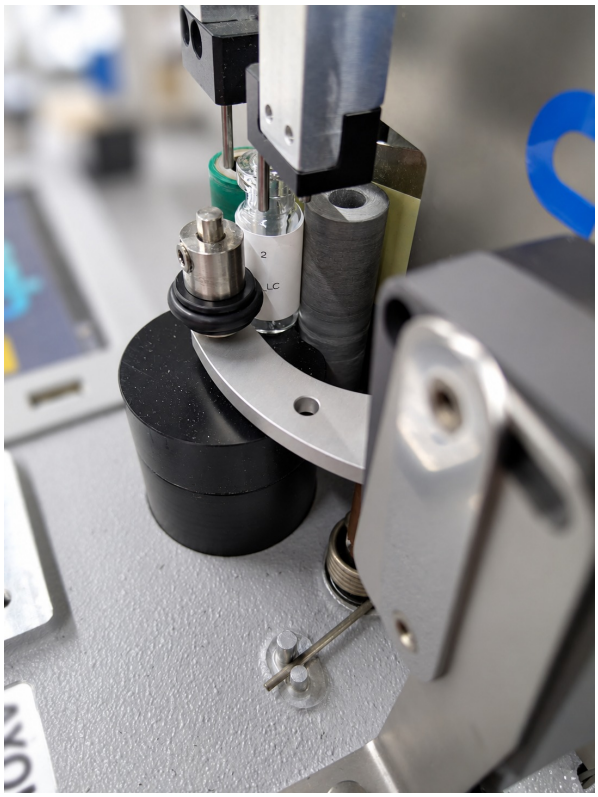
Gripper and labeling

Handling adapted to the sample containers.



Adapted gripper fingers on the robot

The slim gripper fingers are adapted to pick up the selected vial type.



Vial transfer to the labeler

The photograph shows the gripper transferring a vial to the labeling system.

PICK UP, TRANSFER, PLACE

The gripper fingers are adapted to the geometry of the vials in use. The robot picks up an unlabeled vial from the source tray, transfers it to the labeler and then places it in the assigned output tray.

The labeling system applies a QR code and plain text; the code checker verifies the printed code. The gripper and equipment shown are examples; configuration depends on the application.

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Drawers and output trays

Prepare the vial supply. Place labeled vials in assigned positions.

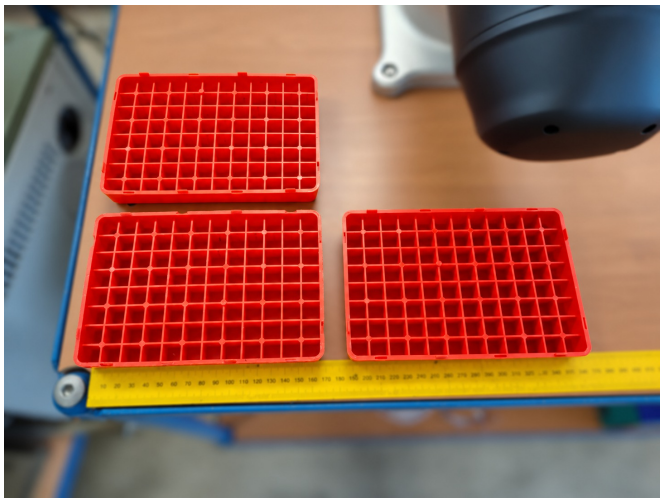


Module with three drawers



Open drawer with a sample tray

The example configuration holds two trays per drawer, six per module. CHROMTECH trays with 54 positions provide the vial supply; tray presence detection and indicator lights support tray position identification.



Red output trays on a single level

RED OUTPUT TRAYS

The red trays receive the labeled vials at their assigned output positions. Tray number, format and arrangement are matched to the vial type and worklist.

Photos: CHROMTECH, backgrounds retouched. Example equipment; configuration depends on the application.

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