

TS-1070	Scinomix VXi Label Height Variations	Document Owner: Service Team	Effective Date: AUG-24-2022	Page 1 of 2
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Purpose

This guide provides information intended to help alleviate label height variations for the Scinomix VXi.

Intended Use

Indicators of adjustments needed could be the log files reporting some variable label placement positions, or the LH/RH offset positions producing a variable tube placement when running multiple times.

Variations of label height are caused by an inconsistency in the movement distance from the lower conveyor sensor to the pick and place. This is usually caused by one of these two factors:

1. A mechanical issue where the belts of the lower conveyor are not the correct tension, not moving smoothly, etc.

or

2. The tube edge is not detected by the sensor in the same location each time during the alignment process.

After any mechanical issues are addressed, adjusting the conveyor speeds and/or enabling Edge Finding (in the Conveyor/Hopper Setup window) should alleviate the issue and result in creating consistent label height. See [UG0014 VXi User Guide](#), *Edge-Finding* for additional information.

Required Material and Equipment

- Scinomix VXi
- Sci-Print VX2 or VXL

Intended Audience

Certified Scinomix Technician

Prerequisites

N/A

Procedure

1. Reduce the Lower Conveyor Speed.
 - a. On the Tubes tab, press **Edit Hopper/Conveyor Parameters** to open the Conveyor/Hopper Setup window.
 - b. **Lower convey speed** controls the speed of the belt on the lower conveyor, which moves tubes to the camera and into pick-up position. Press the **Slower (-)** button next to **Lower convey speed**.
 - c. Run tubes (handoff from the VX and print) and observe label placement.
 - d. If needed, reduce the **Upper Conveyor Speed** as well and retest.

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- e. If lowering the lower conveyor speed does not resolve the issue (or has undesirable effects on throughput), proceed to step 2.
2. Enable **Secondary Edge-Finding** routine. For tubes that have inconsistent alignment on their bottom edge, use the edge-finding routine to always align tubes to their cap edge. This causes the pickup location to be more consistent for some tubes. (Default = 0 or *off* for secondary alignment routine).

Note: If having trouble detecting one side of the tube, set Edge-Finding Speed to the recommended default, *60,000 steps/s* to enable the secondary alignment routine.

3. Run tubes (handoff from the VX and print) and observe label placement.

If you need additional assistance, please call our service department at 314-298-9800 or email service@scinomix.com.

Definitions

N/A

Revision History

Version:	Change:	Effective Date:	Approved by:
A	NEW	APR-19-2022	L. Klaus
B	Content review <i>Added Intended Use</i>	AUG-24-2022	Service