

TS-1019	Changing Pneumatic Grip Head for Honeycomb Racks	Document Owner: Service Department	Effective Date: AUG-30-2022	Page 1 of 5
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Purpose

This guide explains how to change the gripper head orientation to handle honeycomb racks on the Sci-Print VX2/VXL.

Intended Use

When honeycomb racks require adapting the gripper head orientation.

Required Material and Equipment

- 3mm Allen wrench
- Honeycomb spacer (1044-701-033-B)

Intended Audience

Scinomix End user

Prerequisites

- Honeycomb position racks are to be used.
- Pneumatic grip head is required to be in place.

Procedure

1. Using a 3mm Allen wrench, loosen the screw on top of the gripper mount.

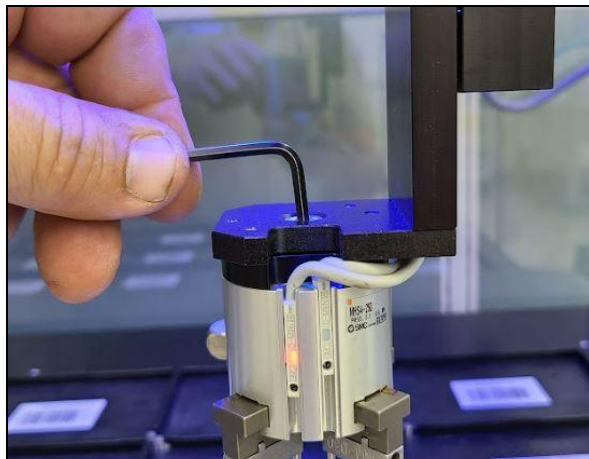


Figure 1.

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2. Detach the gripper head from the mount.

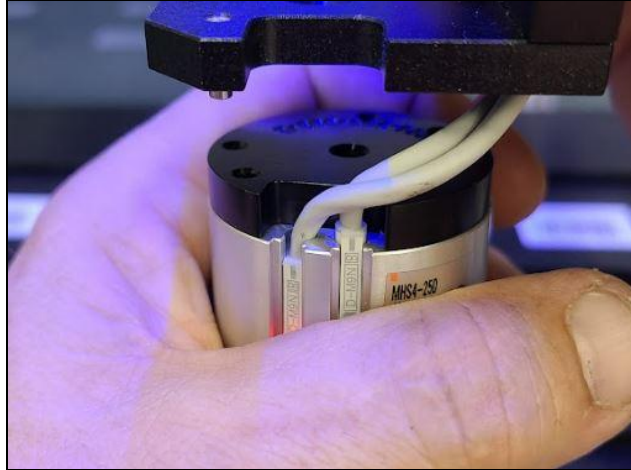


Figure 2.

3. The honeycomb plate, in standard orientation, is mounted to the two dowel pins on the bottom of the mount using the holes circled in red in Figure 3 below.
4. Rotate the gripper clockwise until the back dowel hole (green circle on upper left in Figure 3) fits the back dowel pin.
5. The front dowel pin should be approximately in between the two sensor wires (green circle on lower right of Figure 3).

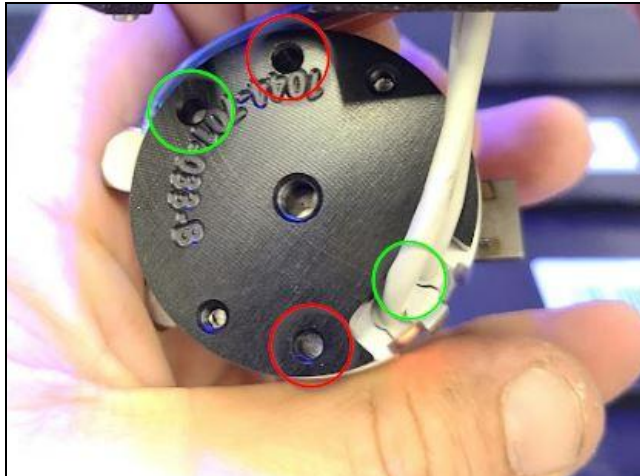


Figure 3.

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6. Attach the gripper back onto the gripper mount.

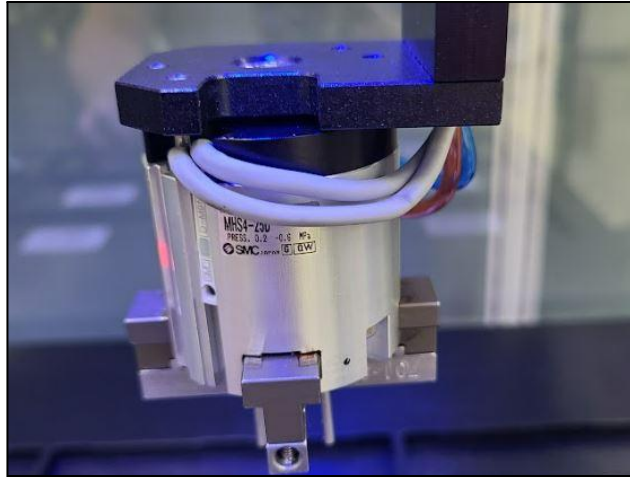


Figure 4.

Note the dowel pin that floats between the sensor wires, which the green arrow points to in Figure 5.

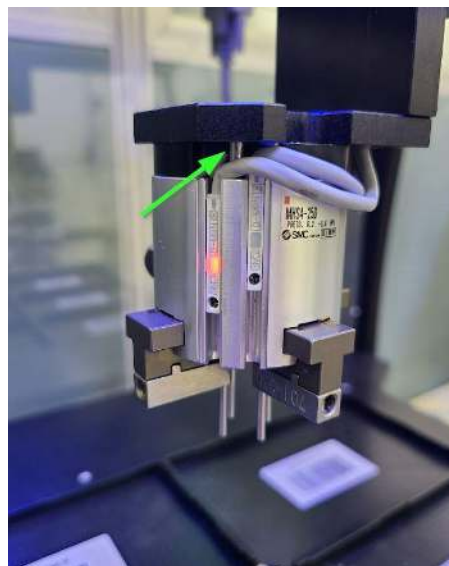


Figure 5.

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7. Insert and tighten the screw on top of the gripper mount using a 3mm Allen wrench.

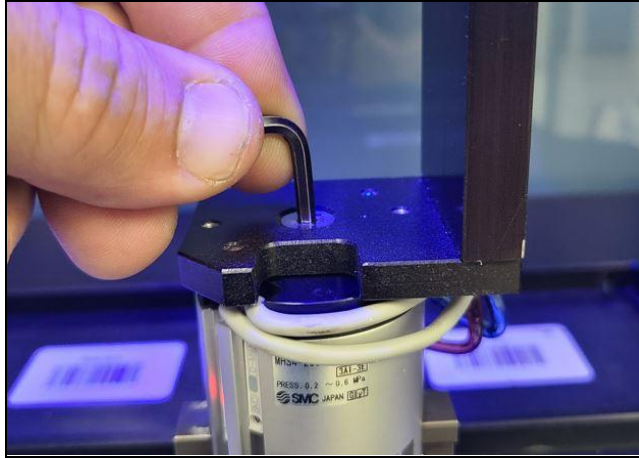
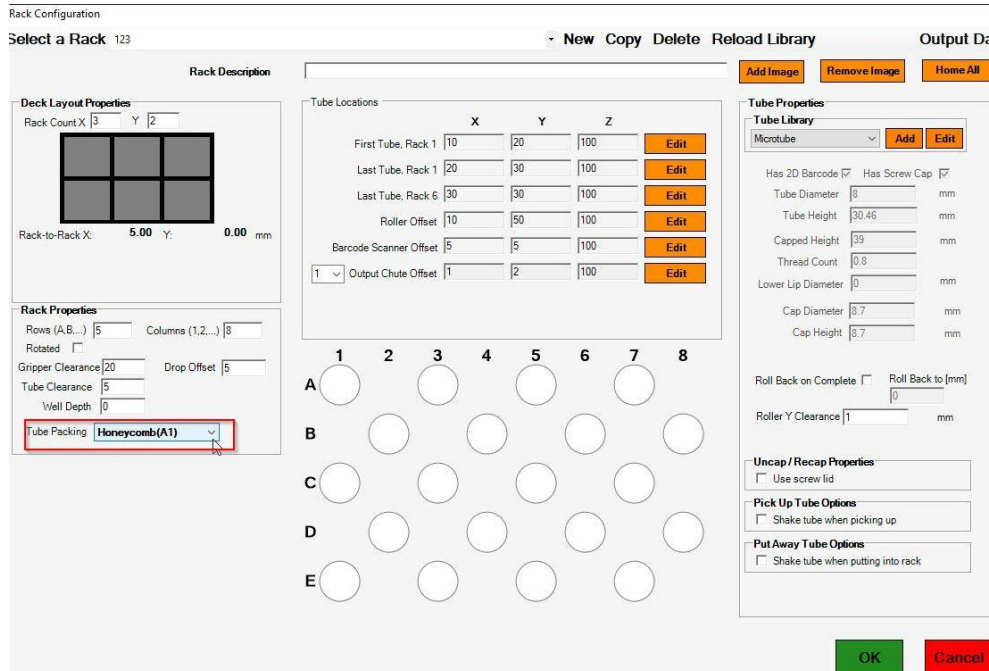


Figure 6.

8. Confirm the rack definition is set to the proper orientation of the honeycomb rack in **Configuration > Rack Definition**.



Rack Configuration

Select a Rack 123

New Copy Delete Reload Library

Output Dir

Rack Description

Deck Layout Properties

Rack Count X: 3 Y: 2

Rack-to-Rack X: 5.00 Y: 0.00 mm

Rack Properties

Rows (A,B,...): 5 Columns (1,2,...): 8

Rotated:

Gripper Clearance: 20 Drop Offset: 5

Tube Clearance: 5 Well Depth: 0

Tube Packing: Honeycomb(A1)

Tube Locations

	X	Y	Z	
First Tube, Rack 1	10	20	100	Edit
Last Tube, Rack 1	20	30	100	Edit
Last Tube, Rack 6	30	30	100	Edit
Roller Offset	10	50	100	Edit
Barcode Scanner Offset	5	5	100	Edit
Output Chute Offset	1	2	100	Edit

Tube Properties

Tube Library: Microtube

Has 2D Barcode: Has Screw Cap:

Tube Diameter: 8 mm

Tube Height: 30.46 mm

Capped Height: 39 mm

Thread Count: 0.8

Lower Lip Diameter: 0 mm

Cap Diameter: 8.7 mm

Cap Height: 8.7 mm

Roll Back on Complete: Roll Back to (mm): 0

Roller Y Clearance: 1 mm

Uncap / Recap Properties

Use screw lid

Pick Up Tube Options

Shake tube when picking up

Put Away Tube Options

Shake tube when putting into rack

OK Cancel

Figure 7. Honeycomb(A2) not shown

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



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Definitions

N/A

Revision History

Version:	Change:	Effective Date:	Approved by:
A	NEW	APR-14-2020	B. Petti
B	Content Review Added <i>Intended Use</i> section	AUG-30-2022	Service