

Aug 27

Replaced the base plate of the robot machine today.

Now need to redefine the working space in the program (ie where is the large glass base plate, where is the slide pick up location, need to avoid hitting the raised edges of the new table, avoid hitting the raised clamps used for securing the large glass plate)

- Calibration procedures for Araldite tip need to be redefined (what is the height gauge zero?)

-

- Zero of the large glass plate is defined as the top left corner:

$x = 88.200$

$y = 282.145$

so the first single slide should be placed at $x+22/2+4$ and $y + 11 +4$

$x = 103.2$

$y = 297.145$

first quad sized sample should be $x +22+4+2$, $y +28$:

$x = 116.200$

$y = 310.145$

find the height gauge 0: to activate height gauge

robot->External I/O

from aug 1:

diff height gauge and dispense tip:

$\text{deltaX} = 59.055$

$\text{deltaY} = 72.77$

araldite calibration location chosen to be $x = 80$, $y =260$ (for araldite tip for height gauge:

$x = 80+59.055 = 139.055$

$y = 260 + 72.77 = 332.77$

height gauge zero is measure to be

$z = 119.6$

rotation of a set of four patterns is complete

rotation of a set of four araldite patterns: completed

work on a pallet of a pallet to provide slide placements for the "quad modules" - not trivial for some reason. Could talk to Josh Darrah about this at Janome or skip it.

next step: make pallet routines for the ring patterns.

Set up the 12 square inch glass and calibrate the pallet routine.

Run the ring deposition

set the pickup slide locations for the new table on the robot

run the slide placement/timing tests? should take 5 syringes (4 for the quads, 1 for the singles)