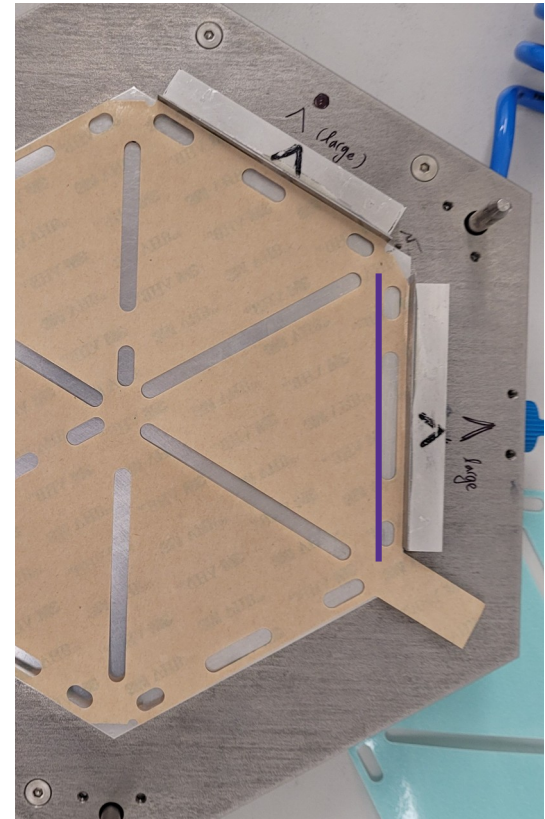


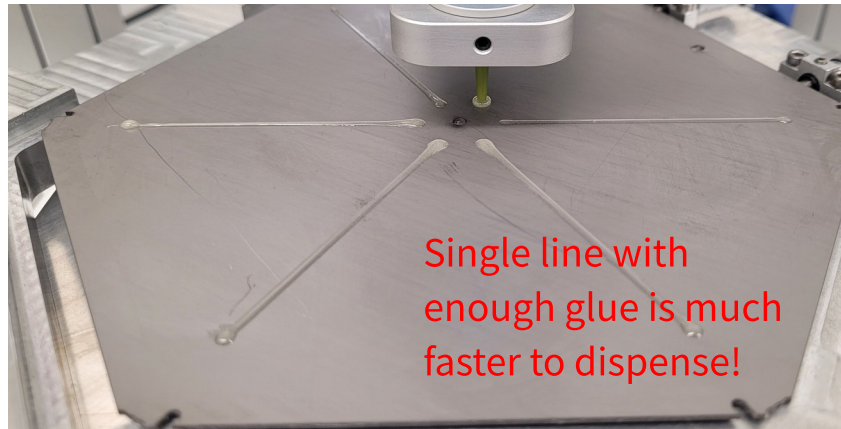
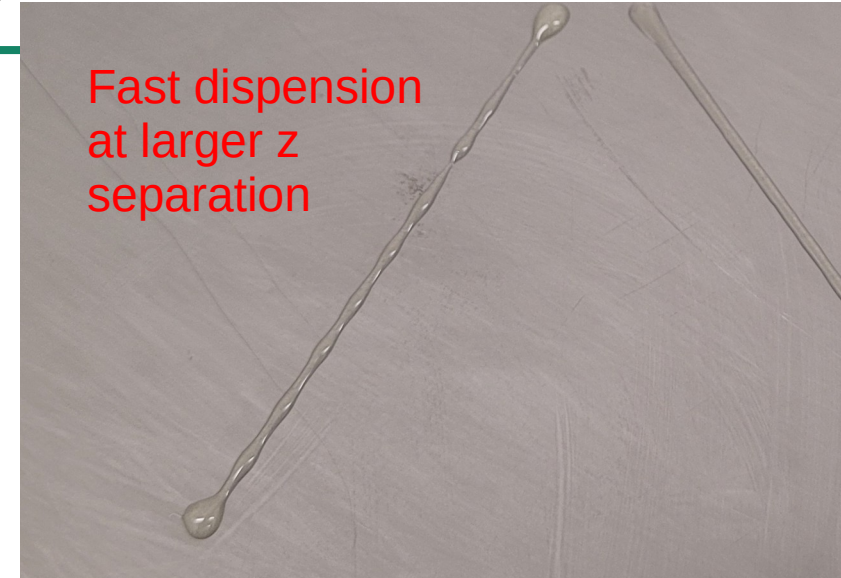
# Notes on preproduction progress (Nov. delivery)

- **CuW** LD Full baseplate shipment (**38/44**) shipped:
  - **8/8** (CERN→TITF), **8/8** CMU, **8/8** TTU, **14/20** IHEP
  - 6 additional CuW is completed (awaiting packaging + shipment)
  - All completed using **hybrid method** with glue tape + araldite
  - **[New]** Top gluetape alignment spacers (**right**).
    - This step is quick with large tolerance,  
[instructions added to docs](#)
- **Ti** Full baseplate shipment (**0/16**):
  - Deliver/Workshop schedules is the main bottleneck right now...
- **Additional requests:**
  - **8 CuW** Full for TITF (completed **3/8**, will continue this afternoon)
  - **3 CuW** Full with **full-glue** for UCSB (**3/3** completed!)
  - **3 Ti** Full with **full-glue** for NTU (**0/3**, held back by Ti delivery)



# Investigating glue dispenser usage

- Testing programmatically generating dispense pattern:
  - Rapid adjustments for future jig changes (**hybrid method**)
  - Consistent glue dispensation for **full-glue method**
- **Limitations:**
  - Control software only provides mm-level precision  
*This seems to be good enough?*
  - Amount of glue dispensed does **not** linearly with set dispense speed.
  - Dispense consistency depends on z-height (see right)  
*(Later 2 issues can be solved with some dispense speed fine tuning, should be solved soon)*



# Next steps – Production + dispensing checks

---

- Readjusting the glue dispense program for **hybrid method** (For Ti delivery)
  - Existing program is dispensing ~2 times the amount of glue needed.
  - Alignment needs to be changed for Ti plates (thinner plates)
  - New pattern dispense time 400s → 200s
  - Nearly done! Probably need 1 half day – 1 full day for checks before deploying
  - Will also help with December delivery.
- Develop Glue pattern for **Full-glue method** (2-3 days?)
  - First trial (now that we know how to better iterate on dispense rate effects)
    - Symmetric pattern with fixed amount of glue (**1.2g**).
    - Observe how viable is simple pressure fit with existing jig.
  - Next trails (?)
    - Do we need advanced patterns?
    - How much overflow/underfill of glue do we allow?
    - Adjustment to jigs for pressure fit requirements.