Jan/Feb Shipments



Completed (Jan. 30th): 12 Ti Full, 44 CuW Full, 5 CuW HD Bottom, 5 CuW LD Left Requests:

CMU:

- 4 Ti LD Full
- 2 CuW LD Full

TTU:

- 24 Ti LD Full
- 2 CuW LD Full

IHEP:

14 CuW LD Full

NTU:

- 5 CuW HD Bottom
- 5 CuW LD Left
- 30 CuW HD Full

UCSB:

33 CuW HD Full

Current plan:

Complete <u>NTU</u> request (radiation test needs time), send remaining <u>CuW</u> to <u>IHEP</u>? (Maximing box utilization)

(Radiation test special request)

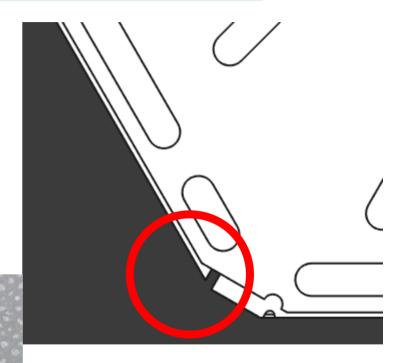
Current limitation:

Metal availably (workshop did partial run/Jonas on holiday) Keyence – Clean room logistics (not every step is automated)

Changes in production

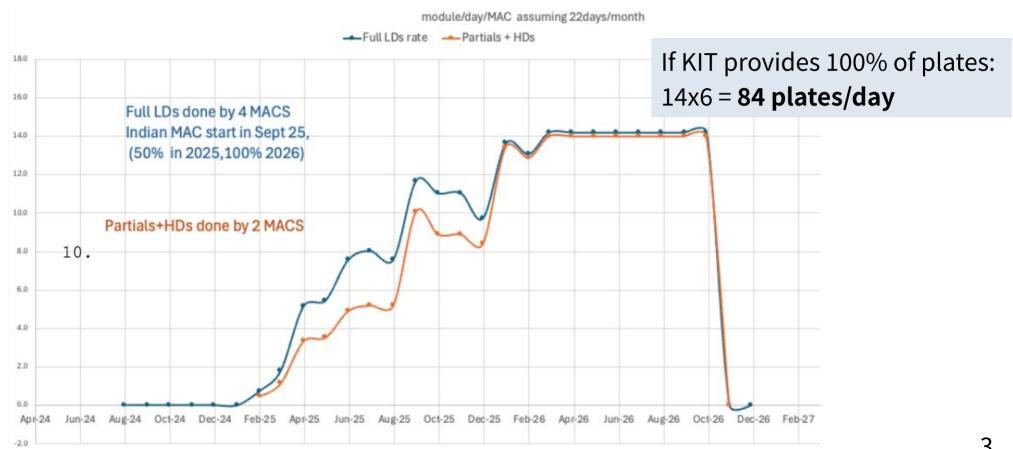


- Glue cleaning all good!
- Delamination recovery all good!
- Small hiccup with transfer tape **design error**:
 - Simple fix with hole punch (approved by Tobias/Susanne)
 - 1 other transfer tape also contained design error...



Extrapolating for production rate





Extrapolating for production rate





For just baseplate - Kapton lamination

Single operator workflow

Glue batch 1 (10min)

Dispense (5min/plate)

Laminate+align (5min/plate) 🕏 (x6 plates)

Glue batch 2 (10min)

Dispense (5min/plate) Laminate+align (5min/plate) (x6 plates)

Post pot-time inspection (2-5min/plate) x 12plates

Double operator workflow

Glue batch 1 (10min)

Dispense (5min/plate)

(x12 plates)

Glue batch 1 (10min)

Dispense

(5min/plate)

(x12 plates)

Post pot-time inspection

Laminate + align

(5min/plate)

(x12 plates)

Laminate + align (5min/plate) (x12 plates)

Post pot-time inspection

can works can right now..

as fast

Additional overhead



Measurement/QC?

• Even at 3 minute/plate, this is still a 4.2 hr task to meet daily quota.

Shipping and logistics?

- Carrying 84 plates is not fun...
- Carrying 84 plates to/from the clean room is extra unfun

Incoming logistics?

- How fast can the KIT workshop provide plates?
- Will we always have material (metal+kapton)?

Partial/plate variant reconfiguration?

This should be minimal (5-10min/reconfiguration)

All this adds up to at least 5 people working effectively full time on this to meet 100% demand.