

DEPFET



PXD Mechanics



CK for Tschalie Ackermann

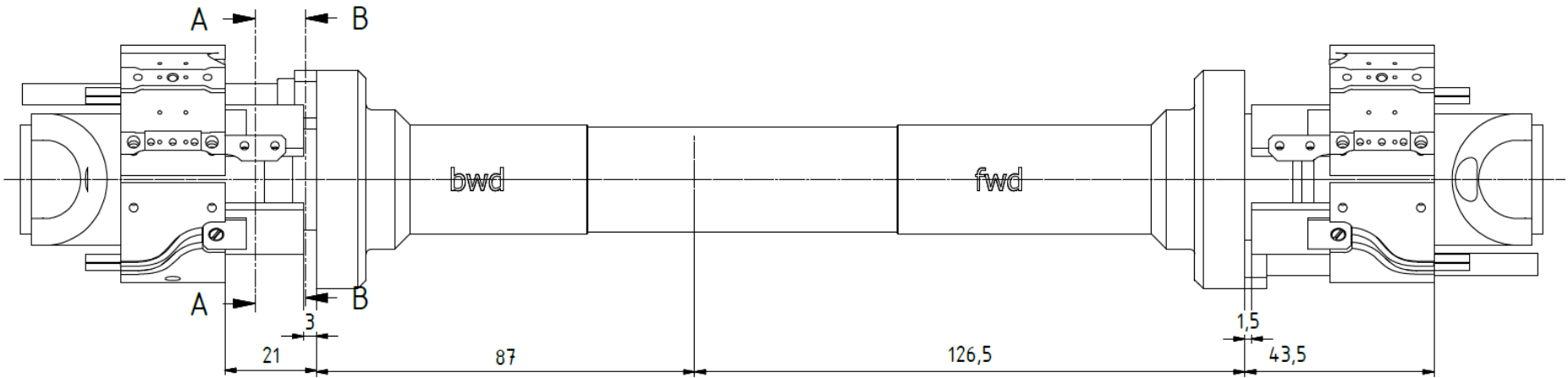
Diamond Location

Assembly Tools

BEAST Phase 2 Mechanics Design

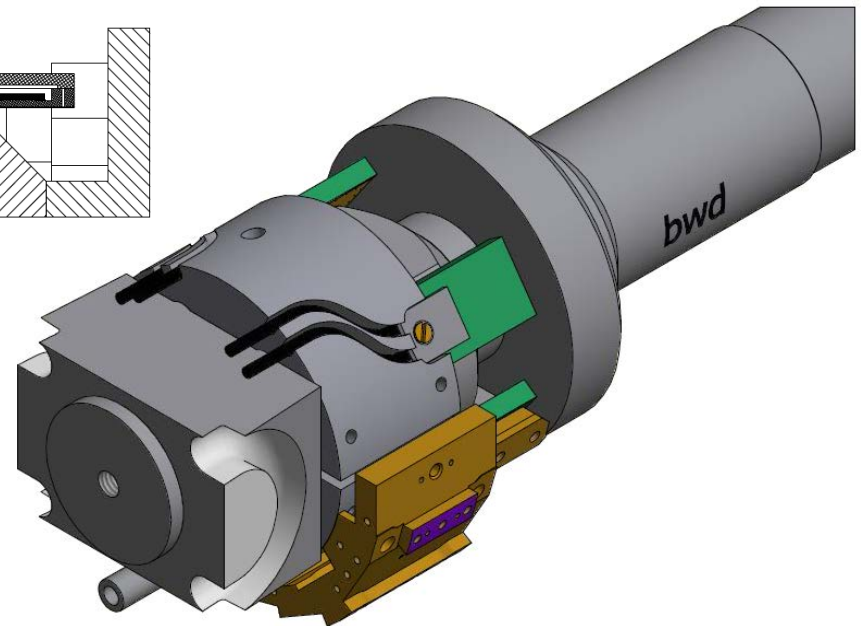
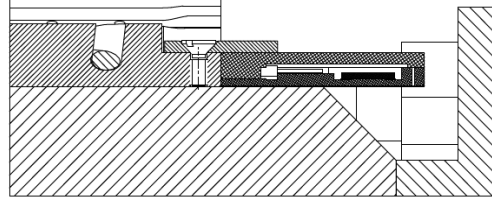
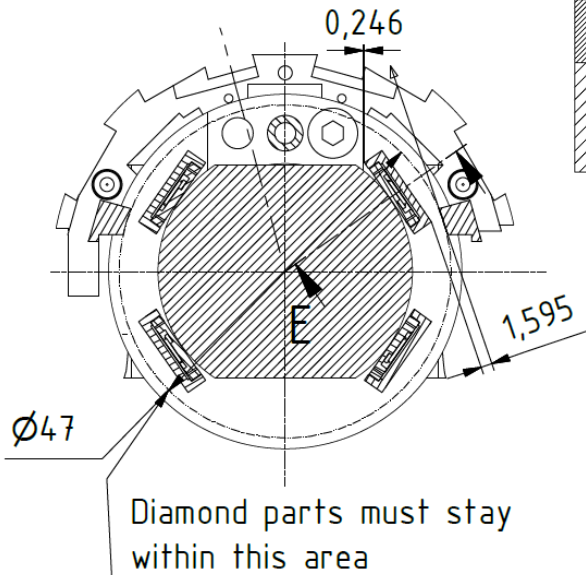
(IBBelle & AIM discussed separately)

BEAST Phase 2 : Diamond Support

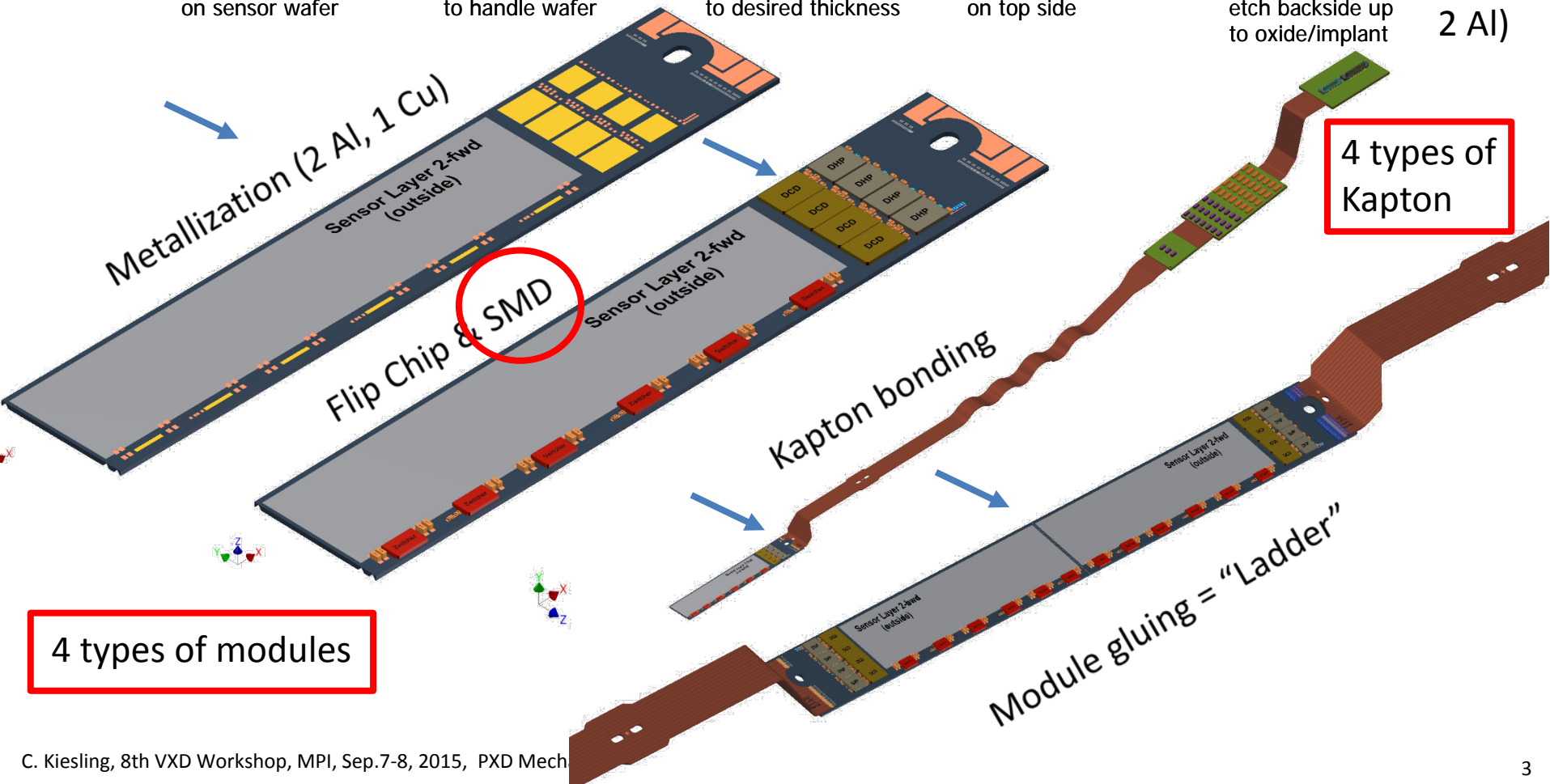
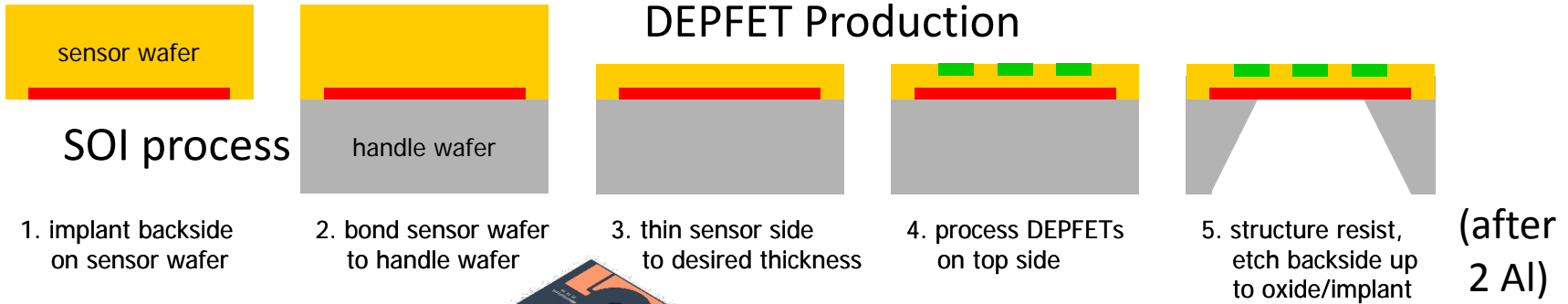


A-A (1 : 1)

E-E (2 : 1)

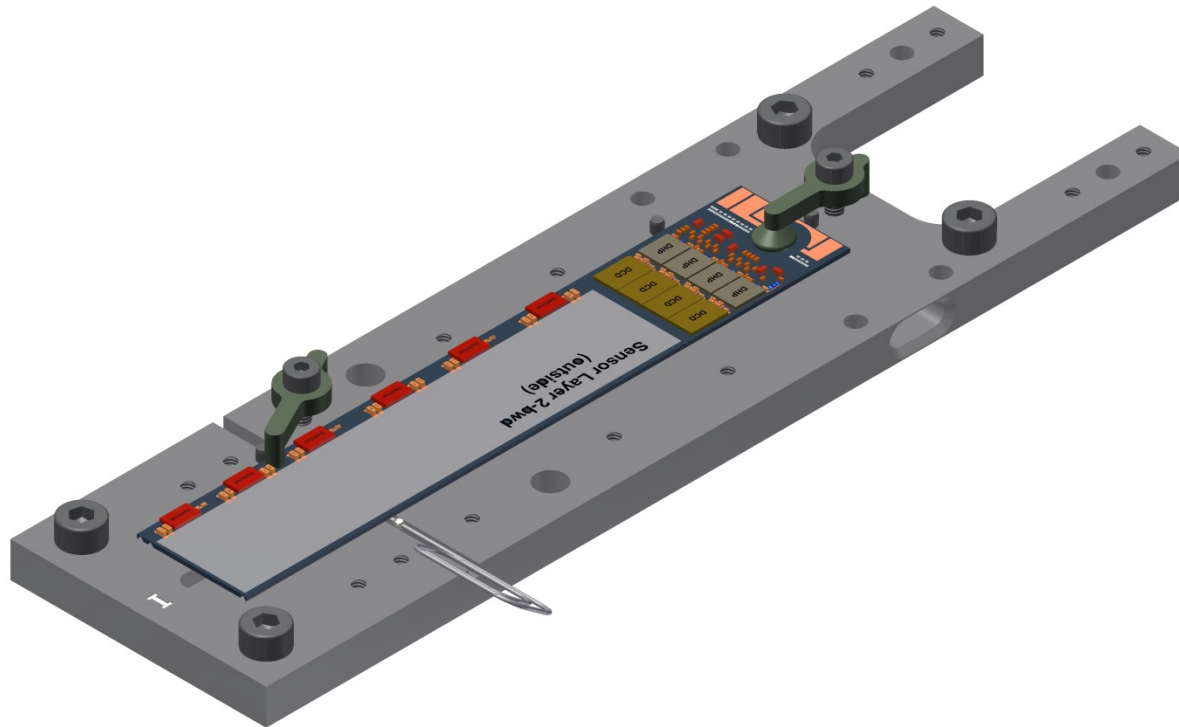


Production Steps of PXD Ladders



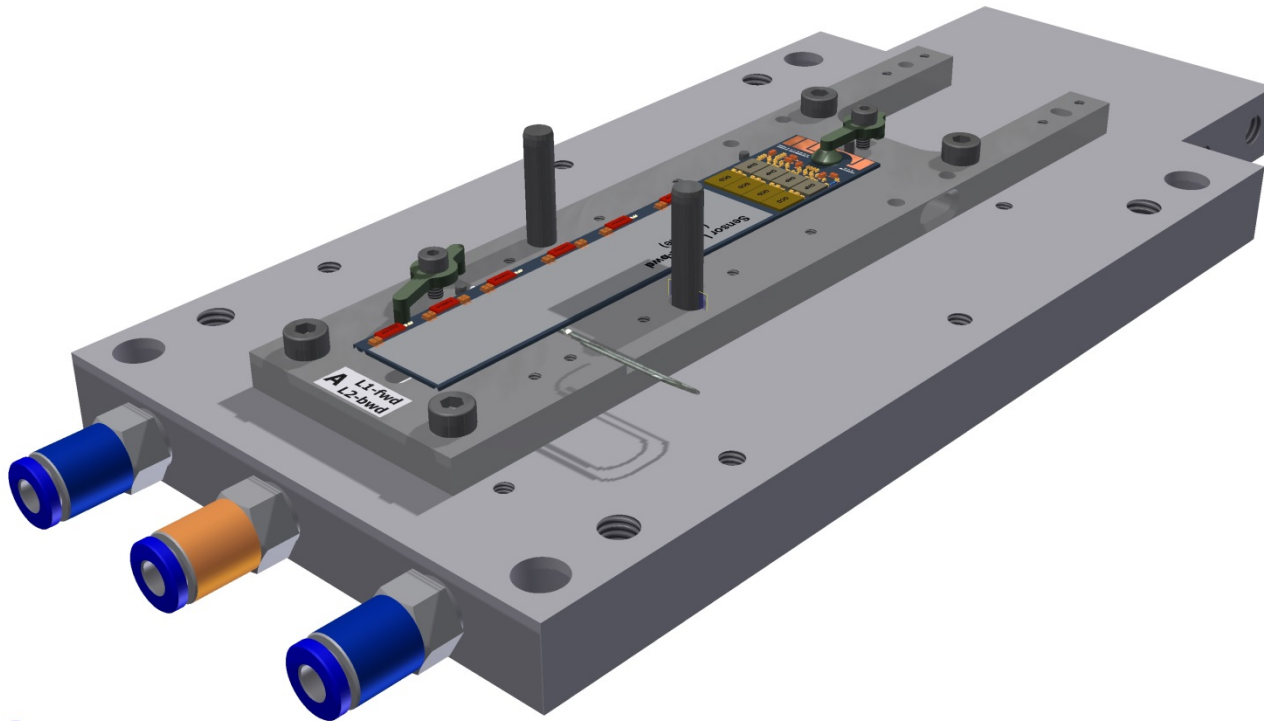
Mechanics: Ladder Assembly Tools (I)

Principle: Sensor fixed in variable transport jig, will not leave the jig until installed on the SCBs



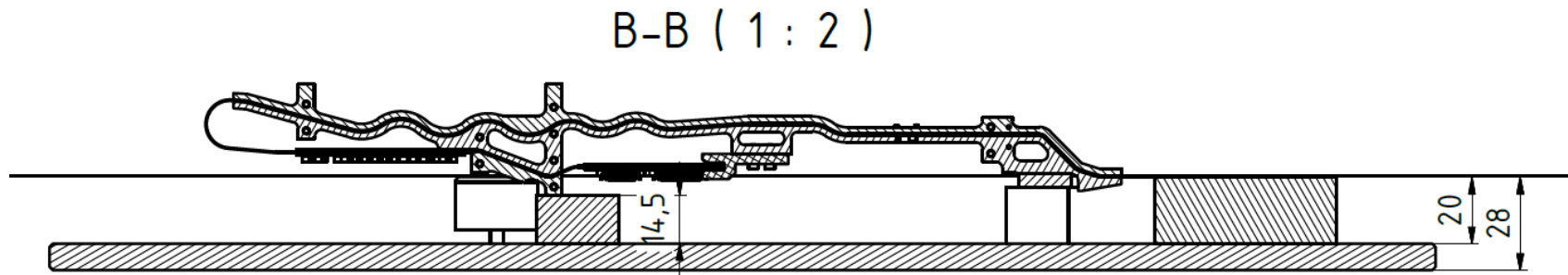
Mechanics: Ladder Assembly Tools (I)

Principle: Sensor fixed in variable transport jig, will not leave the jig until installed on the SCBs



Mechanics: Ladder Assembly Tools (II)

Added complexity: how to manage the long Kapton cable



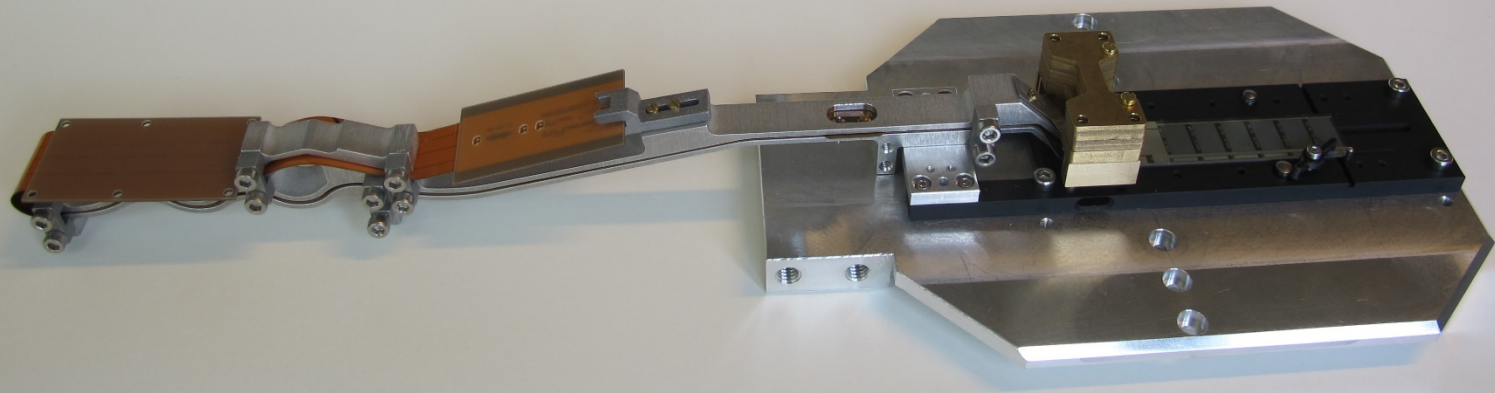
Aufbau für Kapton L1-fwd

Jig needed to solder Kapton onto the sensor

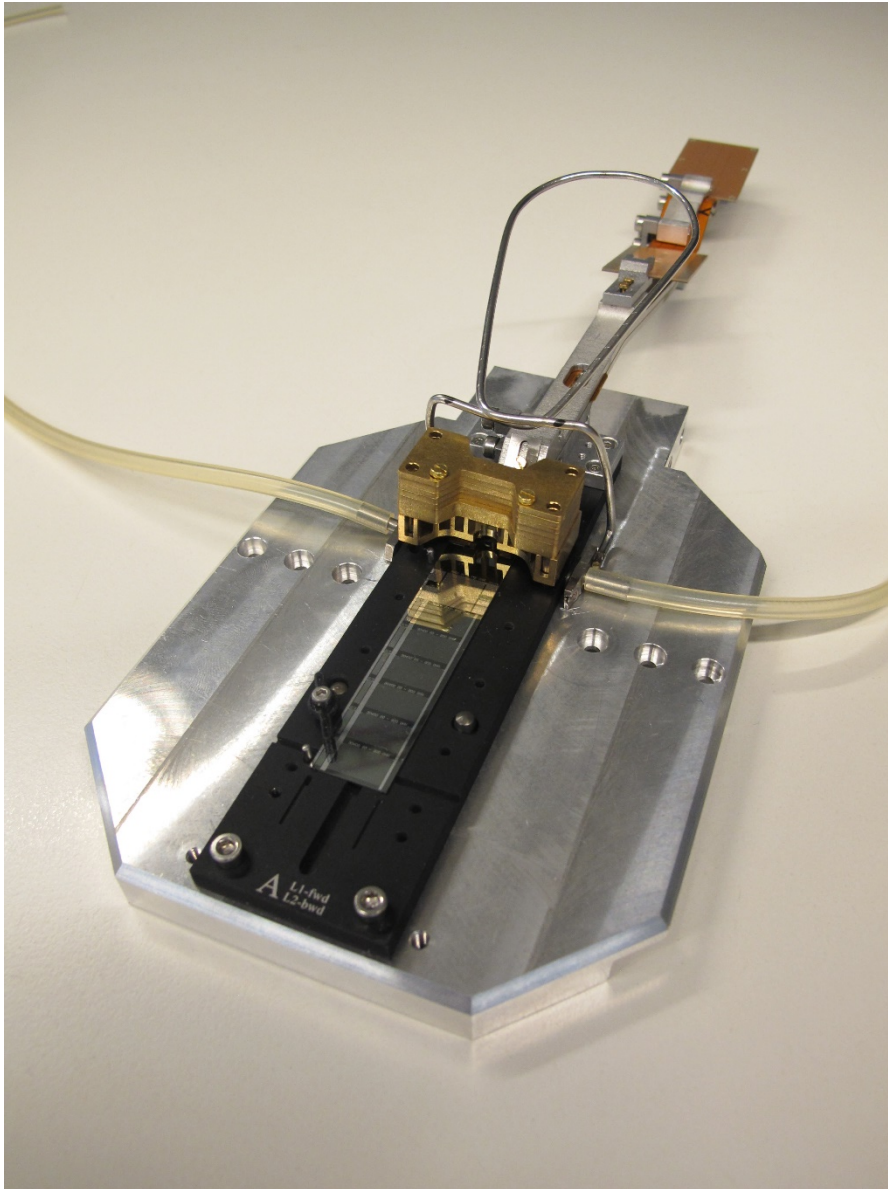
(afterwards wire bonding of Kapton to pads on sensor)

Mechanics: Ladder Assembly Tools (III)

Kapton soldering jig



Mechanics: Ladder Assembly Tools (IV)



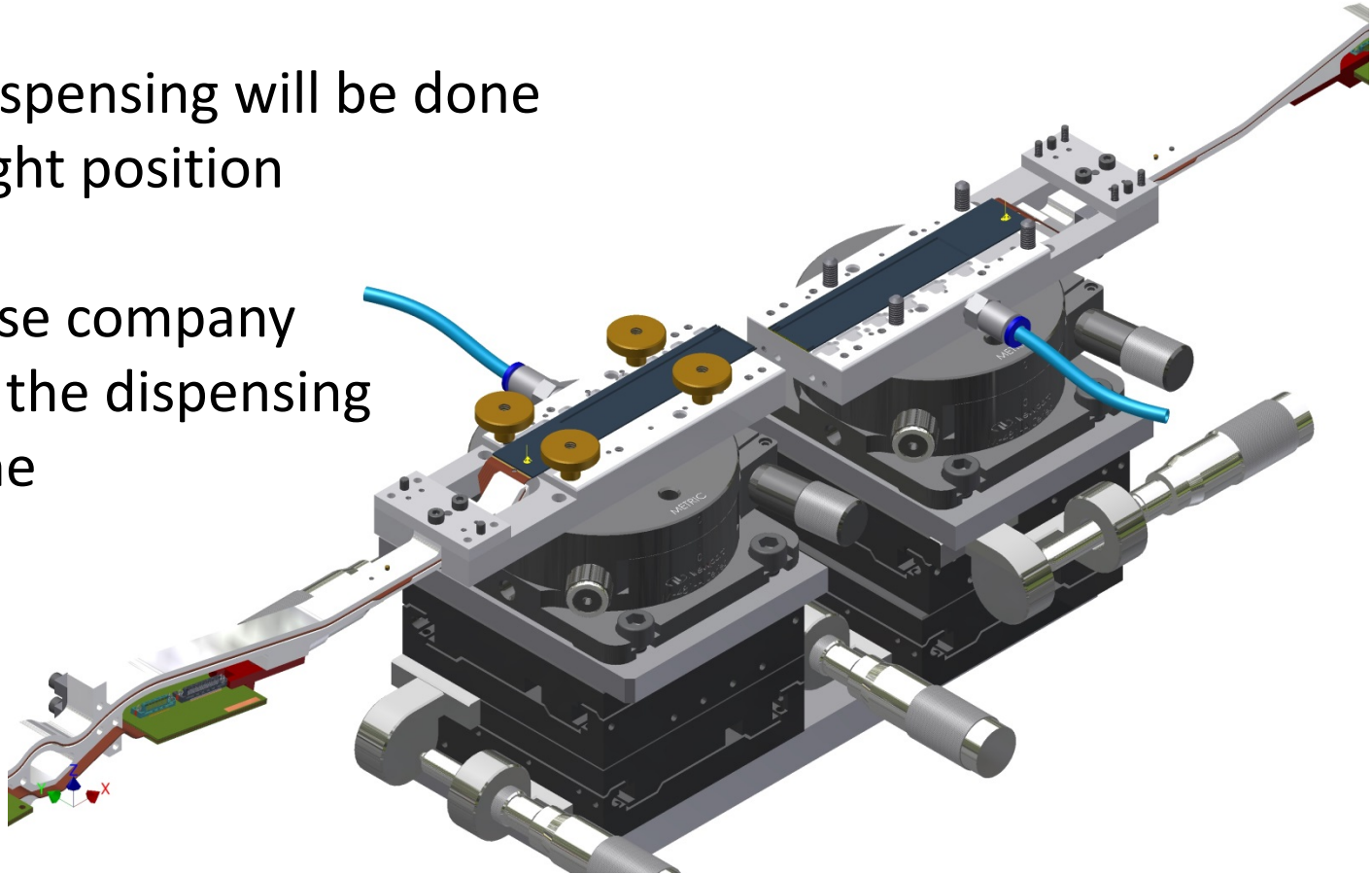
Jig complete for testing the sensor, including vacuum and cooling lines

Mechanics: Ladder Assembly Tools (V)

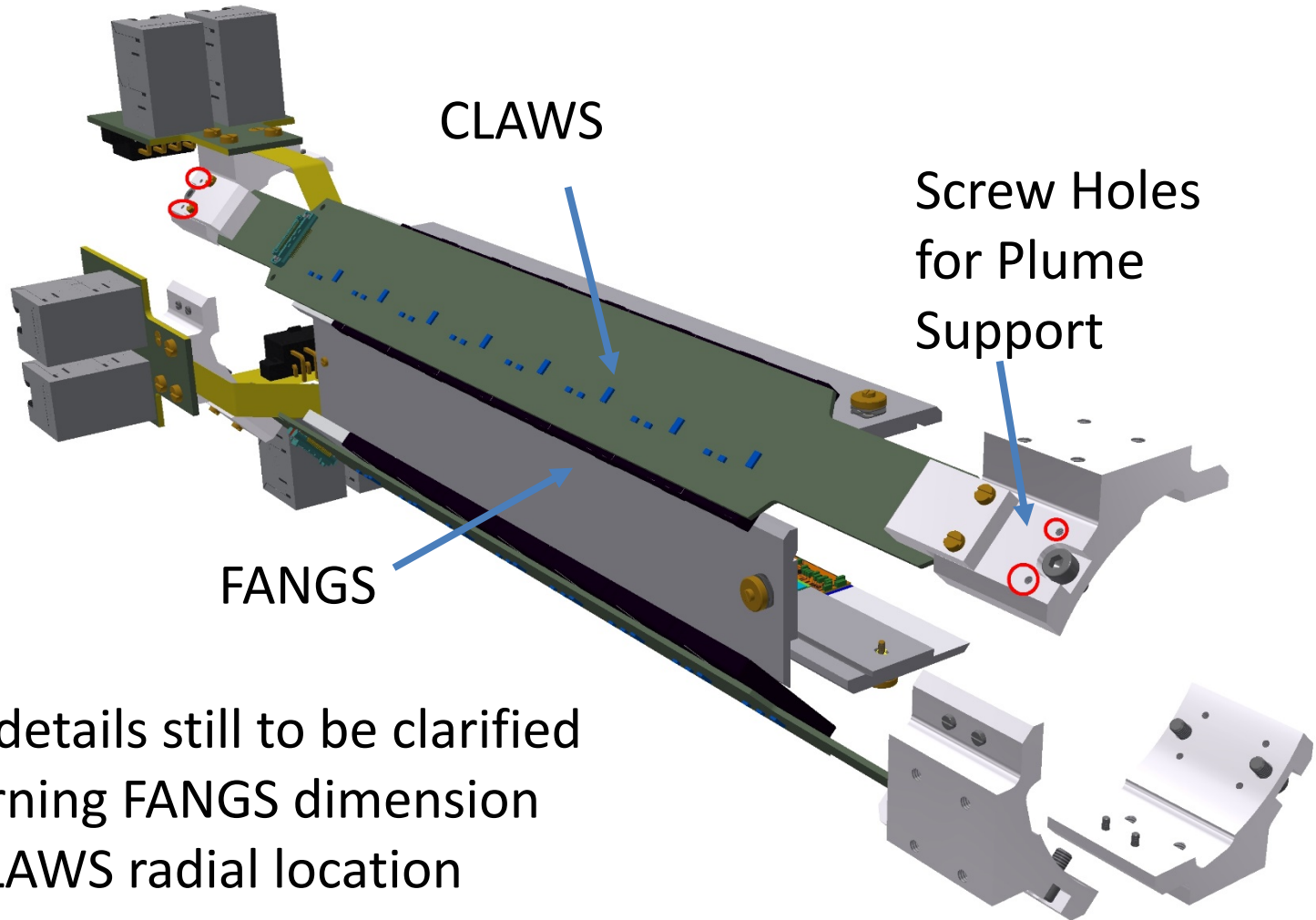
Jig assembly for glueing two modules to a ladder
(under construction)

Glue dispensing will be done
In upright position

Japanese company
will off the dispensing
machine



Mechanics: BEAST Phase 2 Assembly



Some details still to be clarified concerning FANGS dimension and CLAWS radial location

