

## FABRICATION OF MOLYBDENUM PUCK BODY

CIS

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This note summarizes the steps for fabricating the molybdenum "PUCK BODY" as described in drawing JL0047248.

## **Machine and Assembly Steps**

- 1. Machine puck, key and dowel pin
- 2. Trial fit-up of puck, key and dowel pin
- 3. Initial cleaning of components with micro and aceton rinse (do not acid etch before key is pinned)

## **Acid Etch Steps**

- 1. Remove indium if needed (isopropyl + indium ball to get indium off)
- 2. Moly Etch Aqua Regalis (1:3 HCl:Nitric), 10 seconds, rinse, check surface, repeat for 10 more seconds if needed, rinse, check surface
- 3. Ultrasonic cleaning in DI water after (USC twice to ensure removal of acid from around ear)
- 4. Rinse, air dry in hood, bag for heat treatment

## Vacuum Bake Steps

- 1. Use a vacuum oven to degas puck.
- 2. Use a ramp rate of 10-15 degrees Celsius per minute.
- 3. Ramp to 900 degrees Celsius.
- 4. Soak for 120 minutes, recording pressure every 30 minutes.
- 5. Ramp and cool to room temperature
- 6. Bag puck, if possible in GN2.