

Sample Loading/ Unloading

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Loading Samples

1. Check no stub in XPS.
2. Check Turbo on & back chamber at low pressure.
3. open gate 1.
4. turn off IG1.
5. close gate 0.
6. Turn Pfeiffer (Turbo) off.
7. close gate 2.
8. open gate 3.
9. load stub.
10. wait for Pfeiffer to stop.
11. hold door, close gate 3.
12. open gate 2.
13. Pfeiffer on.
14. wait for back chamber $< 1 \times 10^{-4}$ Torr.
15. turn on IG1.
16. open gate 0.
17. close gate 1.
18. wait $> \frac{1}{2}$ hour till IG1 $< 5 \times 10^{-8}$ Torr.

Moving sample to XPS

Stage

1. IG1 $< 5 \times 10^{-8}$.
2. Raise stage (switch 7).
3. Move stage to (0,0,0,0) to load stub.
4. Lower stage (switch 7).
5. Make sure transfer Arm is fully retracted.
6. Open gate 5.
7. Push sample with transfer arm onto Stage.
8. Unlock sample from arm.
9. Fully retract transfer arm to LL.
10. Close gate 5.
11. Raise stage (switch 7).

Unloading Sample

1. check IG1 $< 5 \times 10^{-8}$ Torr.
2. Move stage to (0,0,0,0) to unload stub.
3. lower stage (switch 7).
4. Make sure transfer arm is Fully retracted.
5. open gate 5.
6. move stub from XPS stage to arm.
7. move stub to load lock.
8. close gate 5.
9. open gate 1.
10. close gate 0.
11. turn off IG1.
12. turn off Pfeiffer.
13. close gate 2.
14. open gate 3.
15. remove sample.
16. wait for Pfeiffer to stop.
17. hold door, close gate 3.
18. open gate 2.
19. start Pfeiffer.
20. wait for P $< 1 \times 10^{-4}$ Torr.
21. open gate 0.
22. close gate 1, turn on IG1.