

Features

- Class 1000/10000 UHV clean room facilities.
- Leak detector.
- Ultrasonic cleaning and rinse tanks for UHV compatible degreasing and cleaning operations.
- Automated bake out rig for processing machined items
- 2 x Newport anti-vibration (air spring) large breadboard tables and calibrated inspection grade granite surface table.
- Newport LAE500 laser autocollimator for dynamic measurement to 1mrad.
- Newport XPS 8 axis motion controllers- 2
- Rank Taylor Hobson Micro alignment telescope.
- Leica digital clinometers.
- Comprehensive workshop precision metrology equipment.

Assembly, Test & Calibration Facilities

IDT have vigorously invested in in-house facilities allowing us to offer a professional test and assembly service to our customers.

The equipment services include:-

- Large Class 1000 clean assembly area for construction and testing of ultra high vacuum components and assemblies.
- Leak detector Leybold UL200.
- Ultrasonic cleaning, rinse and bake facilities.
- The very best in metrology and test equipment including a Newport laser autocollimator for dynamic measurement with microradian (0.2 arcsec) resolution.
- Encoder readouts for display of sub-arc second & sub μ m encoders.
- Newport XPS units stepper & dc servo motor control test rig for motion control testing (featuring standard stepper motor and micro-stepping control) .
- Large granite inspection bench 3 tonne and two anti-vibration Newport breadboard mounting tables for precision metrology testing.

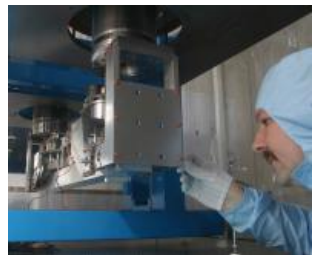
In addition to investing in equipment, of overriding importance is that IDT retain the services of highly skilled staff with many years experience in both UHV and precision metrology.



Experienced in UHV clean assembly work



Testing diamond crystal goniometer



Assembling a mirror bender



Assembly area includes class 1000 Flexi-wall room