Performance Report



June 11, 2015

Praecis Demonstrates a 544:1 Improvement Over Ambient Temperature.



Praecis ATCU-5 attached to a Precitech diamond turning machine enclosure.

Objective: Ultra-precision temperature controlled environment to diamond turn next generation of space optics.

Equipment:

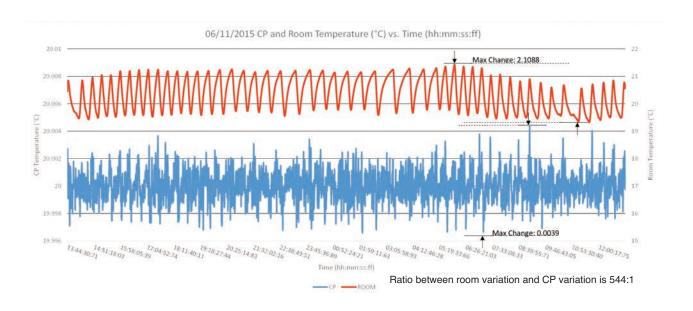
- Praecis ATCU-5.
- Precitech diamond turning enclosure.

Customer: European optics research and development facility.

Result: Successful diamond turned space optic that met ultra-precision specifications.

Details:

- Over the course of a 24-hour testing period, the Praecis ATCU-5 maintained temperature within ± 0.0039 °C at the Critical Point while operating in a ± 2.1088 °C room environment.
- An improvement of 544:1 over ambient temperature.
- The room temperature (red) varied by over 2.1088 °C (peak-to-valley) over the 24-hr test cycle. The critical point (blue), meanwhile, varied by only 0.0039 °C (peak-to-valley) for a ratio of 544:1.



Præcis, Inc. headquarters is located at 21 Technology Drive, West Lebanon, N.H., USA.

If you would like more information about Præcis ultra-precision temperature control, please contact Praecis at 603.298.7677 or send an email to dct@praecisinc.com.