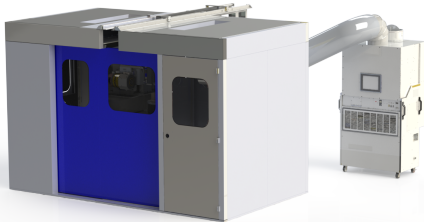


Praecis Demonstrates a 100:1 Temperature Improvement for a Diamond Turning Machine.



Objectives

- Enhance diamond turning results by eliminating inaccuracies caused by thermal disturbances.
- Achieve at least 50:1 temperature control in the diamond turning enclosure.

Equipment

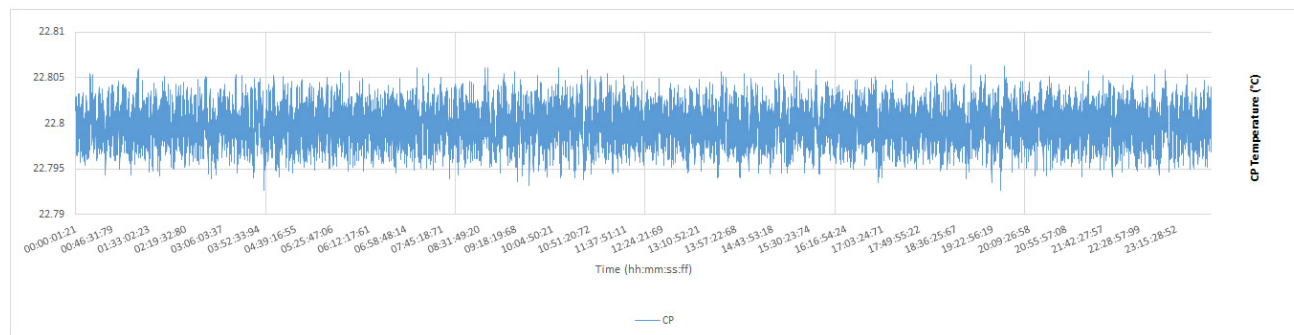
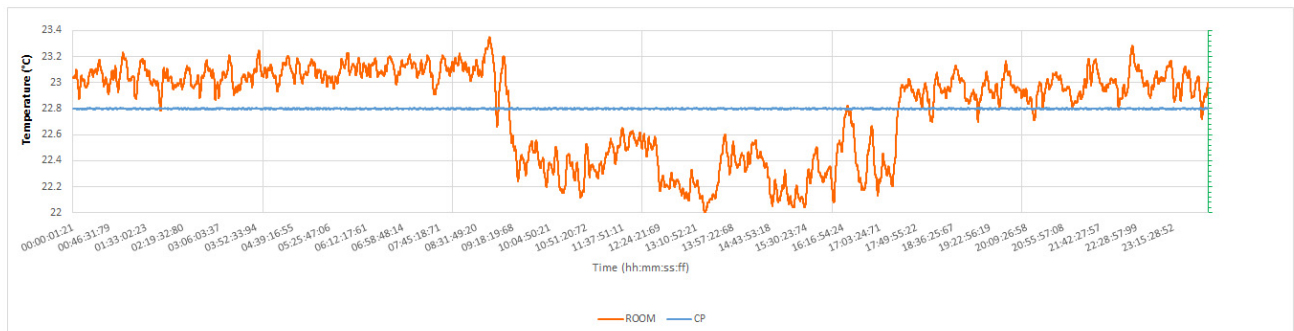
- Praecis ATCU-9
- Precitech Freeform L with Thermal Room Enclosure

Results

- Over the course of a 24-hour testing period, the ATCU maintained temperature set to $22.8 \pm 0.0069^\circ\text{C}$ within at the Critical Point while operating in a $22.8 \pm 0.7^\circ\text{C}$ environment.
- An improvement of 100:1 over the surrounding environment.

The Results Accommodated:

- Constant thermal changes due to room temperature control.
- Warm workroom temperature.
- The thermal effects of user interactions with the diamond turning machine during the workday.



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

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