

-PRESS RELEASE
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PRAECIS, INC. ANNOUNCES IT'S NEWEST AIR TEMPERATURE CONTROL UNIT: The ATCU-2

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Praecis has announced a new ultra-precision temperature control unit designed for small enclosures such as those used by diamond turning systems.

New system for small enclosures.

Designed for enclosures with a footprint up to 3 m², the ATCU-2 guarantees temperature stability 100 times better than ambient, which can lead to improvements in part accuracies of two to ten times.



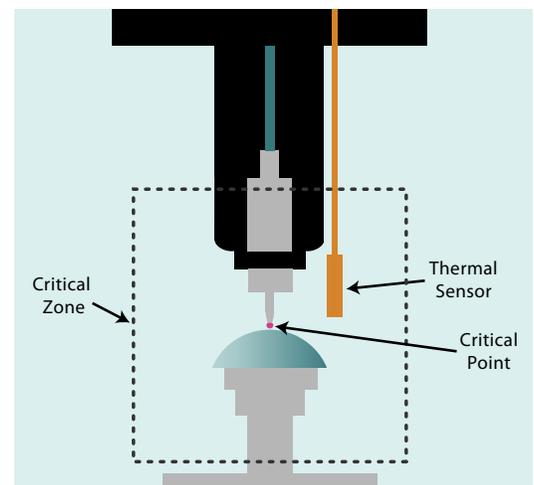
The ATCU-2 is designed to complement the existing range of Praecis ATCUs, the larger -5, -9 and -18 models, while providing a solution sized for diamond turning machines and metrology systems. Like its big brothers, the ATCU-2 is a self-contained, portable unit designed to control the temperature inside an enclosure.

Ultra-Precision Temperature Control.

The ATCU-2 will stabilize the temperature at the user-selected "critical point" to a factor of at least 100 times better than the stability of the ambient temperature. Installed in a room with variations of +/- 1.0 °C, for example, the ATCU is guaranteed to maintain the critical point within +/- 0.01 °C.

Praecis units heat the air as well as cool it. So whatever your ambient temperature, you will be able to keep the temperature of your work steady.

Response time is virtually instantaneous. If you open the door to the enclosure, the system drives the temperature back to the Set Point in seconds, not minutes. No need to stand around waiting for the temperature to regulate.



*Fabric air distribution system in a
Precitech diamond turning enclosure.*



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Zero maintenance.

Once installed and tuned, the unit will operate indefinitely without user intervention. If your environment changes and the systems needs to be re-tuned, a Praecis engineer can be re-tune the system from anywhere in the world. All you need is access to the Internet.

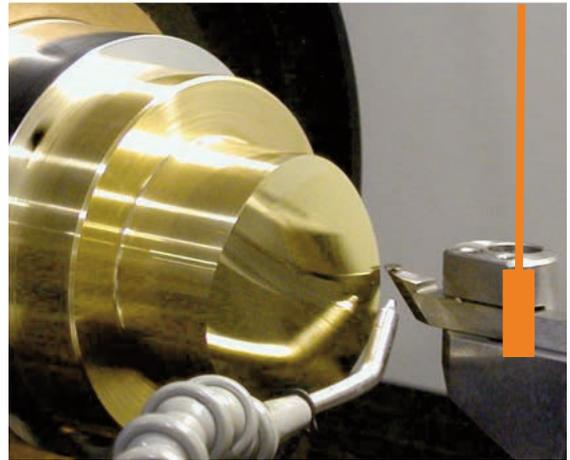
Data collection.

By plugging in a laptop PC, the user can monitor and record eight channels of temperature data, from thermistors provided by Praecis—four permanently installed at locations to monitor ATCU performance, and four at locations selected by the user.

A 4.3-inch touch screen displays the temperatures at the critical point and in the room. Should either temperature exceed pre-set limits, an alarm will sound to alert the user. The user can also display any of the eight thermistors.

Laminar Air Flow.

When attached to a diamond turning machine enclosure, the porous-fabric air distribution system provides laminar airflow over the lathe. The Praecis system produces the best thermal stability in the business.



Location of the Critical Point temperature sensor in a diamond turning operation.

Proven success.

Praecis has successfully installed ATCUs in major industrial countries around the world, with clients in Asia, Europe and the Americas. Satisfied clients include NASA, TNO (Netherlands), Aerotech, Precitech, and Coherent Inc.

Affordable.

Our price is also the best in the business. Call us for a quote.

Using the latest in technology and innovation, Praecis is dedicated to building the best ultra-precision temperature control systems in the world.
