

Almax·easyLab
science under pressure

Products



Diacell® TozerDAC X-ray

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Innovative turnbuckle diamond anvil cell for X-ray applications at room and low temperatures.

- The Diacell® TozerDAC X-ray was developed in collaboration with Prof. Stan Tozer (FSU & NHMFL), who had the idea to use the turnbuckle concept in DACs;
- The principle of turnbuckles is rather simple. Applying such concept to a DAC means that the turnbuckle draws opposing diamond anvils together to generate high pressures;
- Careful machining of the cell and carefully polished diamond anvils - both of which are hallmarks of Almax easyLab - address translation and tilt alignment issues;
- The Diacell® TozerDAC has a dedicated Loading jig and a special easyLab® Tpress which allows the user to apply the force uniformly and also to measure the load on the TozerDAC;
- The Diacell® TozerDAC X-ray is very small (12 mm diameter, 11 mm height) so it can be easily accommodated in any commercial X-ray instrument. The cell can also be used in conjunction with cryogenic jet coolers for use at low temperatures;
- Pressures up to 20 GPa are achievable.

RELATED PRODUCTS:

- Diacell® Bragg-LT(S)
- Diacell® Bragg-LT (G)
- Diacell® ST-DAC System
- Optiprexx Ruby Line
- Boehler µDriller
- uDrill Pro

RELATED ACCESSORIES:

- Diamond Anvils
- Gasket Blanks
- Ruby Powder
- Diacell® Gasket Indenter
- Diacell® easyGlue
- Diacell® Horizon
- Diacell® Load Jig
- Diacell® TPress

Technical Specifications:

Cell Material	Titanium
Anvil Support Plate	Titanium
Pressure Mechanism	Turnbuckle drive
Maximum Pressure	20 GPa
Top/Bottom Angles	X-ray: 82° Conical
DAC Diameter / Height	12 mm / 11 mm
Working Distance to Sample	5 mm
Numerical Aperture	0.68

Specifications subject to change without prior notice.
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