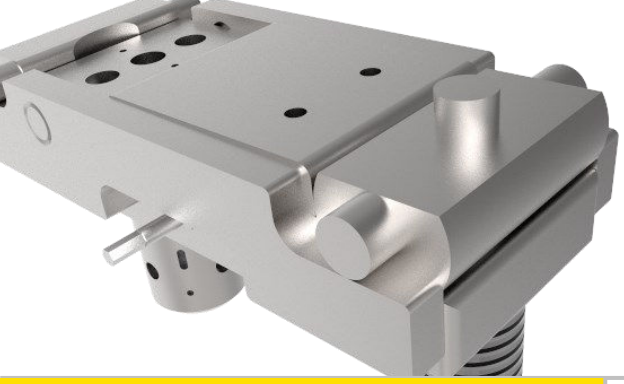
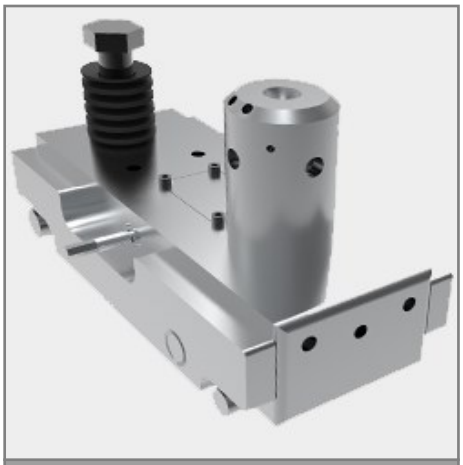


Almax·easyLab
science under pressure

Products



Diacell® ShearDAC

Diacell® ShearDAC

Lever arm diamond anvil cell for optical and shear experiments.

- The Diacell® ShearDAC is equipped with internal gears that enable a full 360° rotation of the piston anvil relative to the fixed cylinder anvil;
- Inspired by the Diacell® LeverDAC-Mega, this cell is ideal for performing spectroscopic experiments with simultaneous shear and static high-pressure up to above 50 GPa;
- Smooth rotation is obtained by an extremely careful machining of the piston and cylinder;
- Fitted with ultra low fluorescence anvils the Diacell® SherDAC may be used for Raman spectroscopy;
- Lever arm has length / width: 165 mm / 76 mm;
- The Diacell® SheraDAC was originally fabricated for J. Ciezak (US Army Research Lab) and validated on a sample of calcite at 0.5 GPa (c.f. Ciezak, J. and Jenkins, T., Rev. Sci. Instrum. 82, 073905 (2011));
- The cell can also be fitted with Boehler-Almax design diamond anvils. The advantage is an enlarged observation top angle.

RELATED PRODUCTS:

- Diacell® LeverDAC-Maxi
- Diacell® LeverDAC-Mega
- Optiprexx Ruby Line
- Boehler µDriller
- uDrill Pro

RELATED ACCESSORIES:

- Diacell® Design 2.5 mm Anvils
- Boehler-Almax Design 3.30 Anvils
- Stainless Steel 10 mm Gasket Blanks
- Ruby Powder
- Support Plates
- Gasket Indenter

Technical Specifications:

Anvil Design Option	Diacell Design	Boehler -Almax Design
Cell Material	Vascomax 300	Vascomax 300
Anvil Support Plate	Tungsten Carbide	Tungsten Carbide
Maximum Pressure	50 GPa	50 GPa
Top/Bottom Angles	34 ° / 9° Conical	80 ° / 8.8° Conical
DAC Diameter / Height	33 mm / 89 mm	44.5 mm / 70.5 mm
Working Distance to Sample	17.5 mm	15 mm
Numerical Aperture	0.29	0.64

Specifications subject to change without prior notice.
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