



Products



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- Ruby Powder
- Ring Heater
- Gasket Indenter
- Diacell® Anvil Jigs
- Diacell® Ring Heater

Diacell® LeverDAC-Mega

Lever arm drive diamond anvil cell for optical work.

Part of the Diacell® LeverDAC Series.

- ◆ The Diacell® LeverDAC-Mega is based on a leverage mechanism designed to bring the diamond anvils together. This is the original design of diamond anvil cells;
- ◆ The cell is specially suited for any ultra-high pressure (> 100 GPa) optical studies. It has a numerical aperture of 0.44;
- ◆ The anvils are mounted mechanically by force fitting them into rings, which then are screwed to their seats. This is a unique feature of Diacell® Diamond Anvil Cells;
- ◆ Optional internal resistive heater enables the operation of the LeverDAC-Mega to temperatures of order of 500°C ;
- ◆ The lever arm drive unit (length/width: 181mm/87mm) can be disconnected from the cell to facilitate interfacing to spectrometers;
- ◆ Maximum pressures of up to above 100 GPa may be obtained with the Diacell® LeverDAC-Mega.

Technical Specifications:

| | |
|----------------------------|---------------------------|
| Cell Material | Stainless Steel AISI 440C |
| Anvil Support Plate | Tungsten Carbide |
| Pressure Mechanism | Lever Arm Drive |
| Maximum Pressure | 100 GPa |
| Top/Bottom Angles | 52° Conical |
| DAC Diameter / Height | 37 mm / 51 mm |
| Working Distance to Sample | 13 mm |
| Numerical Aperture | 0.44 |

Specifications subject to change without prior notice.
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