

Products



Diacell® LeverDAC-Mega

RELATED PRODUCTS:

- Boehler microDriller
- Diacell® LeverDAC-Maxi
- Diacell® LeverDAC-Mini
- Optiprex PLS
- Diamond Anvils

RELATED ACCESSORIES:

- Heaters
- Gasket Blanks
- Ruby Powder and Spheres
- Support Plates

Diacell® LeverDAC-Mega

Lever arm driven 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 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.
- ▶ The lever arm drive unit can be disconnected from the cell to facilitate interfacing to spectrometers.
- ▶ An internal resistive heater and thermocouple are optional. These enable the operation of the LeverDAC-Maxi to temperatures of the order of 500°C.
- ▶ Maximum pressures above 100 GPa are readily obtained with the Diacell® LeverDAC-Mega.

Technical Specifications:

Cell Material	Stainless Steel AISI 440C
Anvil Seat (support plate)	Tungsten Carbide
Pressure Mechanism	Lever Drive
Top Angle	52° Conical
Bottom Angle	52° Conical
DAC Length / Width	181 mm / 86 mm
DAC Height	68 mm (at cell)
Working Distance to Sample	15 mm

Specifications subject to change without prior notice.
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