

Almax·easyLab
science under pressure

Products



Diacell® SymmDAC

Diacell® SymmDAC 60 / SymmDAC 100

Screw drive diamond anvil cell for room temperature optical and X-ray applications

- This is the familiar so-called symmetric diamond anvil cell;
- The high pressure in the Diacell® SymmDAC 60 is achieved by the means of two pairs of left-hand/right-hand bolts;
- It is a budget DAC useful for the pressure range up to 100 GPa;
- The Diacell® SymmDAC 60 enables either side to be used for collection or for introduction of electromagnetic beams (x-rays, laser, visible or infrared light);
- A shorter version, the Diacell® SymmDAC 100, with Boehler-Almax anvils design is also available. It has the benefit of the larger conical aperture of up to 100°;
- A Low temperature version of the SymmDAC 60, the SymmDAC 60—LT, is also available. This version is made of BeCu for better thermal performances.

RELATED PRODUCTS:

- Diacell® Diaclamp
- Diacell® Cryogenic Loader
- Optiprexx Ruby Line
- Boehler µDriller
- uDrill Pro

RELATED ACCESSORIES:

- Diacell® Design 2.50 mm Anvils
- Boehler-Almax Design 4.00 mm Anvils
- Stainless Steel 2.5 mm Anvils Rings
- Stainless Steel 5 mm Gasket Blanks
- Gasket Indenter
- Diacell® Anvil Jigs

Technical Specifications:

Anvil Design Option	Diacell Design	Boehler -Almax Design
Cell Material	Maraging steel	Maraging steel
Anvil Support Plate	Tungsten Carbide	Tungsten Carbide
Maximum Pressure	100 GPa	50 GPa
Top/Bottom Angles	60° / 60° Conical	100 °/ 100° Conical
DAC Diameter / Height	48 mm / 34 mm	48 mm / 27 mm
Working Distance to Sample	17 mm	13.4 mm
Numerical Aperture	0.50	0.76

Specifications subject to change without prior notice.
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