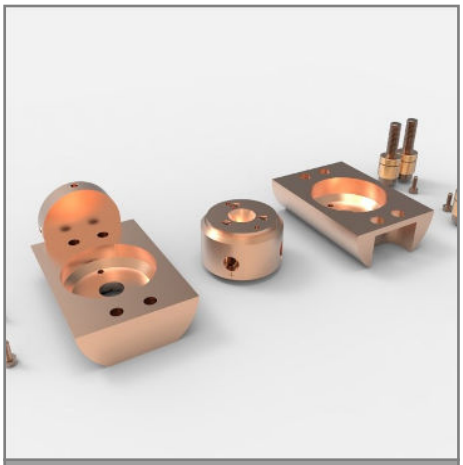


Almax·easyLab
science under pressure

Products



Diacell® CryoDAC-Mega

Diacell®CryoDAC-Mega

Diamond anvil cell for low temperature applications.

Part of the Diacell® CryoDAC Series.

- The Diacell® CryoDAC-Mega is a particularly versatile diamond anvil cell with a high numerical aperture of 0.42;
- The cell is specially suited for optical work at cryogenic temperatures, but can also accommodate scattering work;
- The Diacell® CryoDAC-Mega is held within two BeCu clamps. One of these is fixed to the cryostat and also accepts the cylindrical DAC. The second block fits over the cell and applies load to it via four bolts and loading Belleville springs;
- The anvils are mounted mechanically by force fitting into rings, which are then screwed down to the BeCu seats. This is a considerable advantage over fixing the anvils with epoxy resins;
- Maximum pressure of up to above 100 GPa may be obtained with the Diacell® CryoDAC-Mega.

RELATED PRODUCTS:

- Diacell® CryoDAC-Tesla
- Diacell® CryoDAC-LT
- Diacell® CCS-DAC System
- Diacell® Cryoloader
- Optiprexx Ruby Line
- Boehler µDriller

RELATED ACCESSORIES:

- Diacell® Design 3.1 mm Anvils
- BeCu Anvils Rings
- BeCu 10 mm Gasket Blanks
- Cryostat Interfacing Holder
- Ruby Powder
- Gasket Indenter

Technical Specifications:

Cell Material	Beryllium Copper Alloy
Anvil Support Plate	Beryllium Copper Alloy
Pressure Mechanism	Screw Drive
Maximum Pressure	100 GPa
Top/Bottom Angles	50° Conical
DAC Length / Height	63 mm / 32 mm
Working Distance to Sample	15 mm
Numerical Aperture	0.42

Specifications subject to change without prior notice.
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