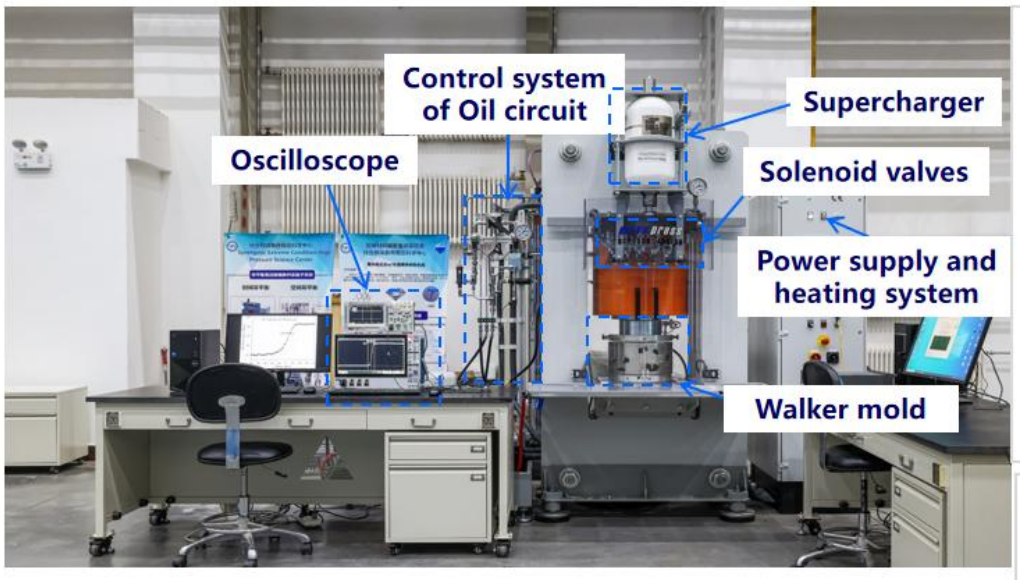
Non-equilibrium High Pressure Station

Non-equilibrium high pressure station consists of controllable pressure jump and uniaxial high-pressure apparatus. The former sets up a rapid pressure loading in milliseconds, which can achieve the extreme condition between dynamic and static high pressure for scientific research. The ultimate pressure of the device is 10 GPa within 20ms. Relatively, the latter one sets up a non-equilibrium ultra-high pressure experimental apparatus in spatial resolution, which can achieve compression and shear/torsion deformation of materials under non-equilibrium enviroment. The ultimate pressure of the device under deformation is 8 GPa.Theses apparatuses can be used in phase transition, mechanical/elastic properties and electrical properties of materials.



Controllable fast pressurizing high-pressure experimental device

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Uniaxial pressurizing high-pressure experimental device

Specification of non equilibrium high-pressure extreme condition experimental station

Controllable fast pressurizing high-pressure experimental device

Parameters	Values
Ultimate pressure	10GPa/20ms
Ultimate temperature	1500K
Sample size	2-5 mm

Uniaxial pressurizing high-pressure experimental device

Parameters	Values
Ultimate pressure	8GPa
Sample size	2-5 mm

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