



岩石力学测试设备 GEOTEST 系列

简介

GEOTEST 系列岩石力学测试设备可完成岩石的无侧限压缩试验、三轴试验、屈服强度实验、间接张力实验、断裂韧性实验、直剪实验、蠕变试验、峰后特性试验、超声波实验及岩石的渗透率实验。于样品上所施加的轴向荷载是通过伺服控制的液压框架实现的，并可操作应力或应变控制模式。一些配件模块可完成一些特定的实验，包括，高压三轴压力室，轴向及径向应变传感器，温度控制器，渗透率测试器，单轴压缩试验荷载盘，间接抗张强度配件及断裂韧性配件。一些标准配置可根据样品尺寸、轴向荷载、最大承载压力及地质范围内的实验。

| MODEL | GEOTEST 500 | GEOTEST 1000 | GEOTEST 2000 | EXPRESS GEOTEST 1000 | EXPRESS GEOTEST 2000 | UNIAXIAL GEOTEST 1000 |
|------------------------------------|-------------|--------------|--------------|----------------------|----------------------|-----------------------|
| Axial load (kN) | 500 | 1,000 | 2,000 | 1,000 | 2,000 | 1,000 |
| Specimen diameter up to 54.7 mm | • | • | • | • | • | • |
| Specimen diameter up to 100 mm | | | | | • | • |
| Pore pressure | | • | • | • | • | |
| Confining pressure | • | • | • | • | • | |
| Elevated specimen temperature | | • | • | • | • | |
| Uniaxial test (peak load) | • | • | • | • | • | • |
| Uniaxial static elastic constants | • | • | • | • | • | • |
| Uniaxial dynamic elastic constants | | • | • | • | • | • |
| Indirect tension (Brazilian) | • | • | • | | | • |
| Fracture toughness | • | • | • | | | • |
| Triaxial test (peak load) | • | • | • | • | • | |
| Triaxial static elastic constants | • | • | • | • | • | |
| Triaxial dynamic elastic constants | | • | • | • | • | |
| Permeability test | | • | • | • | • | |
| Hydraulic fracturing | | • | • | • | • | |
| Direct shear test | | • | • | | | |