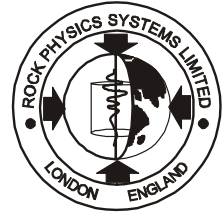


# ROCK PHYSICS SYSTEMS LTD

SUPPLIERS OF LABORATORY APPARATUS FOR ROCK PHYSICS RESEARCH



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## Rock Physics Systems equipment

### Overview

The equipment supplied by RPS has been designed by staff that have many years of unique experience in the areas of research covered by the Mineral, Ice and Rock Physics Laboratory at University College London. The equipment has been used to provide experimental data that has resulted in many scientific papers (link) being published in high quality science journals and has enabled many research grants to be won.

The pore fluid intensifiers have performed reliably in many laboratories around the world. The new digital controllers have a user interface specific to the use of rock/ice physical parameter measurement and can store multiple configurations depending on specimen stiffness, control mode etc. All equipment incorporates the latest seal technology to reduce 'stiction' and friction to a minimum.

We are in the process of producing a new website and catalogue and will forward these on to you in due course. In the meantime, listed below is the equipment that we currently supply. If you have special requirements it is possible that we may be able to supply customised equipment to suit your needs.

### Current equipment supplied

- True triaxial testing machine  
For pore fluid pressures up to 100MPa. Fitted with a pair of perpendicular actuators incorporating balanced-ram assemblies.
- Test machines for upper crustal rock mechanics  
Comprising a load frame, double-acting servo-hydraulic actuator, hydraulic or mechanical clamping mechanism, load cell and integrated LVDT. The system can be rated at 200, 500 or 1500 kN.
- 100/150/400MPa pressure vessel  
Made in corrosion-resistant steel and accommodating specimens of up to 40mm diameter.
- Permeameter (150MPa)  
A 'flow-through' permeameter comprising of two double-acting, pore fluid intensifiers, Fluid drainage system, hydraulic servo-valve, interface manifold and 2 litre pore fluid reservoir capability for servo-hydraulic digital servo-control. The permeameter can be modified for 'pulse-decay' measurement as an option.

Directors: Mr. S.A. Boon, Prof. P.G. Meredith, Prof. S.A.F. Murrell and Dr. P.R. Sammonds  
Registered in England. Company No: 2812697

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- Pore volumometer (700MPa)  
A modified double-acting pore fluid intensifier with a maximum working pressure of 700MPa and a working volume of 10ml.
- 400MPa pressure intensifier  
A 400MPa double-acting servo-hydraulic pressure intensifier with a stroked volume of 22ml.
- 300MPa pressure intensifier  
A 300 MPa double-acting servo-hydraulic pressure intensifier with a stroked volume of 200ml.
- 100MPa pressure intensifier  
A 100MPa double-acting servo-hydraulic pressure intensifier with a stroked volume of 500ml.
- 70MPa pressure intensifier  
A 70MPa double-acting servo-hydraulic pressure intensifier with a stroked volume of 55ml.
- Biaxial load frame  
A 100kN load frame for testing specimens in shear mode.
- Digital controllers  
A servo-hydraulic digital servo-control system comprising PC-based real-time digital control cards and hardware interface components. Available as double or single controllers.
- Specimen end caps for rock physics measurements  
Offering wave velocity (primary and shear) and acoustic emission measurement capabilities.
- Specimen end caps allowing pore fluid flow  
Enabling pore fluid control capability

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